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SUPPLEMENT TO
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OFFICIAL PAPERS.

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ANNUAL REPORT ON THE POLICE ADMINISTRATION OF THE TOWN OF CALCUTTA AND ITS SUBURBS FOR THE YEAR 1889.

RESOLUTION.

POLICE

Calcutta, the 27th June 1890.

READ—

The Annual Report on the Police Administration of the Town of Calcutta and its Suburbs for the year 1889.

Read also—

The Annual Reports of the Chief Presidency Magistrate and the Presidency Magistrate of the Northern Division on the Criminal Administration of their Courts for the year 1889.

The Reports for the year 1888 and the orders of Government thereon.

The following statement shows the number of cognizable and non-cognizable cases reported in the Town and Suburbs of Calcutta during 1889 and the two preceding years:—

		1887.	1888.	1889.
Cognizable	Penal Code*	6,485	8,619	8,421
	Miscellaneous	21,566	29,716	24,643
Non-cognizable ...	Penal Code*	6,566	5,759	5,627
	Miscellaneous	20,475	19,569	21,692
	Total ...	55,092	63,663	60,383

* As in previous years, some offences under other Acts are included in this table with offences under the Penal Code.

The decrease in cognizable crime occurred mainly under the head of street offences. There were 12,543 such cases in 1889 against 16,793 in 1888. The increase in non-cognizable offences is due to the fact that the number of cases under the Conservancy Act rose from 18,617 in 1888 to 20,691 in 1889.

2. *Arrests and convictions.*—The number of persons arrested and summoned fell from 69,377 in 1888 to 56,762 in the year under review. The decrease occurred mainly under the heads (1) Public and local nuisances, (2) Miscellaneous offences under the Stage Carriage Act, (3) Street offences, and (4) Offences under Port Acts. The number of persons convicted was 49,003 against 61,865 in 1888. The percentage of convictions for cognizable offences fell from 94·68 to 93 30, and for non-cognizable offences from 71·12 to 65·99.

3. *False Cases.*—There were only 60 false cases out of a total of 50,297 reported in the Town and only 24 out of 10,086 reported in the Suburbs. In 1888 the numbers were 87 and 31, respectively, in the Town and the Suburbs. The Lieutenant-Governor observes with satisfaction that the proportion of false cases has been steadily decreasing year by year. In the Town, out of 20 prosecutions for false complaints, 12 ended in conviction, in 6 of which the complainants were sentenced to terms of imprisonment varying from two to six months, and in 6 only fines were inflicted In 28 cases fines were inflicted under section 552 of the Code of Criminal Procedure, compensation being awarded in 25 cases to the aggrieved parties. In 3 cases the defendants were discharged, and in the remaining 9 cases the evidence was insufficient for further proceedings. No case was instituted by any Court *suo motu*.

In 10 out of the 16 prosecutions instituted in the Suburbs, the complainants were imprisoned for terms ranging from one to six months; in the other 8 false cases no persons were charged, and the complaints were not of a nature that warranted further proceedings.

4. *Property stolen and recovered.*—The value of the property stolen was Rs. 1,51,267 against Rs. 1,22,523 in 1888, and that of the property recovered Rs. 69,199 against Rs. 59,401 in 1888. In the Town the percentage of property recovered, 49 02, was the same as in the preceding year, but in the Suburbs there was a marked falling off from 33·89 to 35·06. This is said to have been mainly due to unsuccessful investigation in a heavy case of burglary which occurred near Tallygunge.

5. *Ratio of cognizable crime to area and population.*—The ratio of cognizable crime to population in the Town and Suburbs was as follows :—

	Area in square miles.	Population.	Proportion of crime to population.
Town ...	7·8	433,219	1 to 16·83
Suburbs ...	23	251,439	1 to 34·65

6. *Cognizable crime in the Town.*—The following statement shows the number of true cognizable cases reported within the town during the last three years :—

Crime.	1887.	1888.	1889.
Abetment of offence not committed ...	.....	.....	1
Class I—Offences against the State, &c. ..	49	43	32
„ II—Serious offences against the person ...	213	182	186
„ III—Serious offences against person and property	185	163	189
„ IV—Minor offences against the person ...	58	71	53
„ V—Minor offences against person and property	2,223	2,037	2,309
„ VI—Other offences not specified above ...	4,408	7,710	6,891
Special and Local laws ...	16,009	18,950	16,074
Total ...	23,145	29,156	25,735

There was a satisfactory decrease in offences relating to coin, the number of which was 5 against 13 in 1888. Six persons were arrested, of whom 4 were convicted and 2 discharged. The maximum sentence inflicted was 6 months' rigorous imprisonment.

There were 4 cases of murder against 6 in 1888. In one of these cases the accused, a Burman convict in the Presidency Jail, who in a sudden fit of passion killed the convict-warder, also a Burman, by a blow from a heavy block of wood, was sentenced to capital punishment. The same sentence was passed upon a seaman of the British barque *Roanoke*, who committed an indecent assault on a young

shipmate, and on being threatened with exposure, mortally stabbed him with a clasp knife, and also in the case of a constable of police who, in a fit of jealousy, cut the throat of a woman whom he was in the habit of visiting. In the remaining case the accused, who is a native of the Gwalior State, absconded. The Commissioner of Police says that communication will be maintained with the authorities of that State until his arrest is effected.

Cases of grievous hurt decreased to 17 from 26 in 1888, the average of the five preceding years being 33. Twenty-nine persons were arrested, of whom 14 were convicted and 15 discharged. It is said that these cases are frequently settled out of Court. There were 33 cases of hurt by dangerous weapons against 57 in 1888. Two highway robberies were committed by European soldiers stationed in Fort William. In the first case the offenders escaped, but in the second a man was apprehended and sentenced, on conviction, to one year's rigorous imprisonment.

True cases of burglary rose from 161 to 179, and the number of convictions from 95 to 119. The amount of property stolen was much smaller than in any of the four preceding years, but the proportion of property recovered was only 32·15 per cent. as compared with an average of 47·33 per cent. in those four years. The Lieutenant-Governor agrees with Mr. Lambert in thinking that the conditions of Eastern life, the habit which prevails so largely among native shop-keepers in the town of quitting their shops at night, and the general insecurity of dwelling-houses in this country, are very favourable to the commission of the offence of burglary in Calcutta. None the less the offence is very much less frequent in Calcutta than in mofussil towns, a fact which must be attributed to the better watch and ward maintained on Calcutta.

In theft cases there was an increase of 283 as compared with 1888. No explanation of the increase is given. The percentage of cases detected was 48·91 against 47·32 in 1888. The number of cases of criminal breach of trust fell from 269 to 261 in 1889. The most audacious offenders are said to be the drivers of bullock-carts who steal a registration plate from some other cart and hurry off with their load of cloth or grain into remote parts of the Suburbs, or to the railway, having previously arranged for the disposal of the goods at some distant market. The tin ticket, the number of which has probably been taken down by the merchant's sircar, is then removed and the proper ticket is re-affixed to the cart, or the cart is thrown aside as being of no further use. Nine such cases were successfully prosecuted during the year, but the offenders were all summarily dealt with and consequently received but light sentences. The Commissioner of Police suggests that all serious cases of this nature should be committed to the Sessions for trial. Out of 462 persons charged under the Gambling Act, 441 were convicted. In one case the keeper of a gaming house in Jorabagan, who had been previously convicted, was arrested on a warrant and sentenced to a fine of Rs. 5 only. Mr. Lambert rightly objects to such leniency on the part of the Magistrate who tried the case. Under the Stage Carriage Act there were 2,079 cases and 2,032 convictions, against 2,632 cases and 2,702 convictions in the previous year; the decrease is due to the fact that summary arrest is not now made for the offence of carrying excess passengers, procedure by summons being substituted for it. The officers of the Society for the Prevention of Cruelty to Animals did much good service throughout the year in prosecuting offenders under the Act, and over 98 per cent. of the persons arrested were convicted and punished. The barbarous practice of flaying goats alive was for the first time exposed, but the leniency of Magistrates in such cases as these, as well as in the numerous 'phooka' cases, seriously detracts from the good effect of the prosecutions. The Lieutenant-Governor hopes that the serious nature of such offences will be duly weighed by all Presidency Magistrates in similar cases in the future.

7. *Cognizable crime in the Suburbs.*—The following is a comparative statement of true cognizable crime during the past three years :—

Crime.		1887.	1888.	1889.
Class I—Offences against the State, &c.	...	15	14	15
„ II—Serious offences against the person	...	77	53	75
„ III— Ditto against person and property	...	171	127	151
„ IV—Minor offences against the person	...	15	25	21
„ V— Ditto against property	...	709	738	680
„ VI—Other offences not specified above	...	717	1,534	651
Special and local laws ...	...	3,073	6,604	5,662
Total	...	4,777	9,095	7,255

There was one case of an offence relating to Government currency notes. A native of Burrisal, in whose lodgings at Machooa Bazar counterfeit notes and two leaden plates prepared for forgery had been found, was sentenced to five years' rigorous imprisonment. An accomplice of his at Burrisal received a similar sentence, but it was quashed by the High Court. There were three cases of murder against one in 1888. In one of these cases the accused was on conviction sentenced to transportation for life. In the other two cases no clue was obtained to the murderers. There were three cases of culpable homicide, in one of which a Hindu of the labouring class, who committed a murderous assault on his wife, was sentenced to be hanged, but the High Court reduced the sentence to ten years' transportation. In a second case the accused were discharged by the High Court. In the remaining case the culprit escaped. It is satisfactory to observe that there were only 16 cases of grievous hurt against 21 in 1888 and an average of 25 in the five previous years. In one of these cases three policemen attached to the Tallygunge thana were on conviction sentenced to terms of rigorous imprisonment ranging from two to three years. There were 11 cases of kidnapping, in one of which a notorious offender, who decoyed a little girl from her house by promising her sweetmeats, and robbed her of her gold ornaments, was on conviction sentenced to seven years' transportation. The figures of detection and conviction under the head of burglary and lurking house-trespass are good, but the proportion of property recovered to property stolen is low, owing to the failure of the police to recover property valued at Rs. 6,500 stolen in one case near Tallygunge.

8. *Non-cognizable crime in the Town.*—As explained above, the large increase in the number of cases under this head occurred in conservancy prosecutions. There were 4 cases of forgery against 15 in 1888. Convictions were obtained in 2 cases. The number of cases of extortion was 15 against 17 in 1888. In two cases committed to the Sessions the offenders were sentenced to six and three years' rigorous imprisonment respectively. In one case a constable was sentenced to six months' imprisonment for extorting four annas from a milkman.

9. *Non-cognizable crime in the Suburbs.*—There was a decrease of 71 cases as compared with the previous year. This calls for no special notice.

10. *Suicides.*—The number of cases in the Town and Suburbs was 83 against 84 in 1888. In 36 per cent. of the cases death was caused by hanging, and in 28 per cent. by means of opium. Of the persons who committed suicide, 65 were Hindus, 10 Mahomedans and 8 Christians.

11. *Accidental deaths.*—There were 292 accidental deaths against 351 in 1888. One hundred and three deaths were due to drowning as against 152 in the previous year; 30 were caused by falls from trees and buildings, and 31 by carriages and horses. One hundred and forty-two drivers of public and private carriages were prosecuted for rash and furious driving, of whom 124 were convicted.

12. *Arms Act.*—The importation of fire-arms increased from 1,889 pieces in 1888 to 2,655 pieces in 1889. The Commissioner of Police attributes the increase to the importation of a cheaper class of weapon. There was an increase of 411 in the number of guns imported, and of 216 in the inland transport of guns. The imports of percussion caps rose from 15,470,000 to 23,384,000 in 1889, owing to the fact that the surplus stock in hand at the commencement of the year was much less than that at the commencement of 1888. The number of guns sold in Calcutta was 2,720 against 2,709 in 1888, of which only 957 were of native manufacture against 1,084 in 1888. There were seven prosecutions under the Act against 35 in the previous year.

13. *European Vagrancy Act.*—Thirty-three persons were admitted to the Workhouse under section 5 of the Act. Two persons were deported, 12 were shipped away as seamen, and 2 others provided with employment.

14. *Fire-Brigade Act.*—Nine fires occurred in the Town, 16 in the Suburbs and six in Howrah. The damage done is estimated at Rs. 1,38,490 against Rs. 12,53,480 in 1888. In only one case was there the loss of a human life. The most serious fire occurred at Narcoldanga, resulting in the destruction of a large quantity of hay and straw, and 14 tiled huts, worth in all Rs. 40,000. The fire lasted for four days and three hours.

15. *Strength and cost of the Police.*—The total cost of the Town Police was Rs. 4,52,725 against Rs. 4,60,302 in 1888, and that of the Suburban Police Rs. 1,58,255 against Rs. 1,60,066. The decrease in expenditure on both the Town and Suburban Police was due to minor causes and calls for no explanation.

16. *The Police Force.*—There were 1,97[illegible] up-country men in the police against 1,957 in 1888, and 173 Bengalis against 181 in 1888. The number of up-countrymen employed as officers was 99 against 78 Bengalis. T[illegible]

Commissioner of Police observes that the natives of Lower Bengal possess many of the qualities essential for detective police work, but the salary of the two lower grades is altogether insufficient to induce young Bengalis of education to enter the police. The result is that the force is encumbered in these grades by an undue proportion of unintelligent up-countrymen who, except in physique, are inferior to the mass of people whose interests they are engaged to protect. The question of raising the salary of the lower grade of native officers to which Mr. Lambert properly attaches great importance should be made the subject of a separate communication. The percentage of casualties in the force was 9·74 against 11·40 in the previous year. Fifteen members of the force were punished judicially against 16 in 1888. Fifty-six men were dismissed and two men deserted, against 81 and 3 respectively in 1888. The number of vacancies was 288 against 337 in 1888. The decrease occurred chiefly under the heads of resignations and dismissals.

17. *Hotels, liquor shops, &c.*—Two hundred and sixty-eight certificates were granted for hotels, shops for the sale of exciseable articles, and native eating-houses in the Town, and 52 in the Suburbs, against 286 and 46 respectively in 1888. The fees realized amounted to Rs. 822, against Rs. 1,180 in the Town and to Rs. 235 against Rs. 198 in the Suburbs.

18. *Property found and restored.*—Property to the value of Rs. 20,668 was picked up and brought to the police office, and 88 per cent. of the amount was restored to the owners.

19. *Old offenders.*—Two hundred and seventy-eight old offenders were convicted in the Town against 257 in 1888. Of these, 80 had been convicted more than three times. In the Suburbs the corresponding figures were 83 and 16 against 132 and 19 in 1888. Eighty-eight notorious offenders were photographed on their release from jail, and their names registered by the Detective Department.

20. *Judicial work.*—The number of cases instituted in the Northern Division was 14,053, in the Southern Division 13,415, and before the Bench of Presidency Magistrates 21,149, against 15,28[illegible], 15,820 and 18,941 respectively in 1888. Of 35,768 persons appearing before the Courts, 32,732 were convicted and 2,911 acquitted. The ratio of conviction in cognizable cases was 96·84 in the Northern Court, 95·58 in the Southern Court, and 70·37 in the Bench Courts, and 57·78, 40·7 and 40·44 respectively in non-cognizable cases (excluding conservancy prosecutions). The total amount of fines imposed in the Southern Division was Rs. 37,253, of which Rs. 34,633-8-3 was realized; the corresponding figures in the Northern Division were Rs. 22,424-6 and Rs. 21,425-10. Sentences of whipping were passed on 75 persons, and 15 juvenile offenders were sent to the Alipore Reformatory. The total amount of fines imposed by Benches in municipal cases was Rs. 30,078 against Rs. 28,947 in 1888.

21. *Adjournments*—The total number of cases adjourned was 422, of which 187 were before the Northern Division Court, 183 before the Chief Magistrate, and 52 before the Benches. Of these 52 cases only 34 were adjourned once. Out of 338 adjourned hearings in the Northern Division Court, 45 were heard on the following day; the corresponding figures in the Chief Magistrate's Court being 342 and 61. The Commissioner of Police considers that the practice of adjourning cases which are ready for hearing to some distant date not only imposes hardship on the large body of witnesses who belong to the poor and labouring classes, but exposes them to improper overtures from parties who will suffer if the witnesses speak the truth, and that efforts should be made to shorten the periods of adjournments in both the Presidency Courts. He is further of opinion that no case should, in the absence of special reason, be made over to a Bench which cannot be disposed of at a single sitting. The Lieutenant-Governor agrees in this view, and desires that the attention of the Chief Presidency Magistrate be drawn to the matter.

22. *Benches*—The Chief Magistrate observes that, though there have been fewer cases of absence without notice on the part of Honorary Magistrates, absence on insufficient notice still continues. The list of attendance shows that out of 105 Honorary Magistrates only 13 have attended 20 times and more. The Lieutenant-Governor appreciates the services which these gentlemen have rendered to the administration of justice. There were 46 Honorary Magistrates who attended less than 10 times during the year.

Most of those who never attended at all were either in Europe or have since resigned.

23. *Personnel of the force*—Mr. J. Lambert was Commissioner during the greater portion of the year, while Mr. A. B. Barnard held the office of Deputy Commissioner throughout the year. The acknowledgments of the Lieutenant-Governor are due to both these officers for their efficient administration of the Department during the year. The names of the subordinate officers favourably mentioned have been noted.

ORDER.—Ordered that copies of this Resolution be forwarded to the Commissioner of Police, Calcutta, for information, and for communication to the Presidency Magistrates, and to the Commissioner of the Presidency Division for information.

Ordered also that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 28th June, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN. 1	Burdwan June 28, '90	12·31	Heavy rain all over the district. Sowing of *amun* and *aus* nearly finished. Transplanting of *amun* commenced in some places. Sugarcane doing well. Prices of common rice:— Srs. Burdwan ... ... 17 / Culna ... ... 14 / Cutwa ... . 14 1/16 / Ranigunge ... ... 15½ } per rupee.
	Culna ...	11·56	
	Cutwa ...	13·64	
	Ranigunge ..	13·49	
2	Bankoora „ 28, '90	6·84	Weather—cloudy. Heavy rain during the week. Transplanting of rice going on in low lands in some places and in others fields are being prepared for it. Young seedlings coming on well. Sugarcane and other standing crops thriving. Cotton is being gathered in Bishenpore with a 12-anna outturn. Common rice is selling at 17½ seers per rupee at Sudder and 17 seers at Bishenpore.
3	Birbhum „ 28, '90	10·69	Very heavy rain at the beginning of the week. Sowing of *amun* almost completed, under very favourable circumstances.
	Rampore Haut ..	10·05	
4	Midnapur „ 28, '90	13·09	Heavy and frequent rain. Sowing and transplanting somewhat checked by heavy rain. No damage by floods as yet reported. Prices of common rice:— Srs. Sudder ... ... 15 / Tumlook .. .. 14 / Ghatal .. .. 16 / Contai ... ... 18 } per rupee.
5	Hooghly „ 28, '90	10·32	Much rain in the earlier part of the week; weather fair since Thursday (26th). All crops doing very well. There is some mention of floods in Jehanabad. Prices of common rice:— Srs. Sudder ... ... 13 / Serampore ... ... 13 / Jehanabad .. .. 15 } per rupee.
	Serampore ...	7·11	
	Jehanabad ...	12·21	
	Howrah „ 28, '90	5·90	Weather—cloudy and wet. *Aus*, *amun*, sugarcane, and jute doing well so far. Damage to crops on low lands in the Uluberia subdivision is likely to occur if rain continues. Coarse rice 14 to 15 seers per rupee.
	Central Districts.		
PRESIDENCY DIVN. 6	24-Perghs. June 28, '90	7·14	Weather—rainy at the beginning of the week; hot and cloudy at the end. Prospects of all standing crops favourable. Transplanting of *amun* going on, and ploughing continues. Prices stationary.
7	Nuddea „ 28, '90	11·41	8·17 inches of rain fell on Sunday (22nd). The fall has been general throughout the district. Prospects and condition of the crops on the ground are very good.
	Kushtea ..	3·26	
	Meherpore ...	4·56	
	Chuadanga ...	4·77	
	Ramghat ...	8·69	
8	Khoolna „ 28, '90	9·70	Heavy rain in the early part of the week; hot and clear weather in the latter part. Prospects and condition of all crops good.
	Bagirhat ...	16·02	
	Satkhira ...	9·09	
9	Jessore „ 28, '90	15·23	Weather—cloudy and rainy. No injury to crops reported from the heavy rain of the 21st and 22nd. Prospects continue favourable.
	Jhenidah ..	5·86	
	Magura ...	4·34	
	Narail ...	8·81	
	Bongong ...	5·98	
10	Moorshedabad „ 28, '90	7·02	Weather—cloudy and sultry. *Bhadoi* being weeded. Sowing of *amun* going on. Prospects good.
RAJSHAHYE DIVN. 11	Dinagepur „ 28, '90	3·79	Weather—seasonable. Transplanting of *kaimanti* paddy in progress. Prospects of standing crops good. Price of rice at Sudder and Thakurgaon stationary.
	Thakurgaon ...	10·42	
12	Rajshahye „ 28, '90	Figures not given	Weather—quite seasonable. Jute, *aus*, and *amun* all flourishing. The rain has done much good, but a break was necessary. This is already being experienced.
	Nattore ...	11·59	
	Nowgong ..	7·67	
13	Rungpur „ 28, '90	7·55	Weather—cloudy. Heavy rain falls every day. The rainfall retards the process of transplanting the *amun* rice. It is equally unfavourable to the *aus* harvest, which is now in full swing. Prospects generally good, but dry weather is much needed.
	Kurigram ...	8·12	
	Nilphamari ...	8·09	
14	Bogra „ 28, '90	6·01	Weather—seasonable. State and prospects of all crops good. Rice, jute, and sugarcane thriving, and transplantation of *amun* has begun in some places.
	Sherpur ...	10·82	
	Nowkhilla ...	6·63	
15	Pubna „ 28, '90	3·20	Weather—cool and cloudy. The late incessant rain has somewhat damaged the jute crop standing on the higher land, but the prospects of the *amun* and *aus* crops continue to be good. Prices rule as before.
16	Darjeeling „ 28, '90	14·71	Weather—rainy. Continued rain in the Terai is injuring the jute and *bhadoi* crops, and a break for some days is wanted.
17	Julpigoree „ 28, '90	7·28	Weather—sultry and cloudy; rainy at times. Condition of the young plants of *bhadoi* and jute good. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—*concluded.*			
	Eastern Districts.		
Dacca Divn. 18	Dacca June 28, '90	5·84	Weather—rainy and cloudy. Rice and jute thriving. Harvesting of *aus* paddy in chur lands continues. Common rice sold at from 12 to 15 seers per rupee.
19	Furreedpur „ 28, '90	4·54	Weather—rainy with occasional breaks. Prospects of standing crops favourable. *Til* being harvested. Prices of common rice:— Srs. Sudder ... ... 13 / Goalundo ... ... 16 / Madaripur ... ... 14 } per rupee.
20	Backergunge „ 28, '90	11·48	Weather—seasonable. Prospects of crops good. Common rice selling at from 12 to 16 seers per rupee.
21	Mymensingh „ 28, '90	9·31	It is raining every day, and the weather is cloudy and comparatively cool. State of crops favourable. *Amun* sowings going on. Condition of *aus* paddy and jute good. Coarse rice selling at 13½ seers per rupee.
Chittagong Divn. 22	Chittagong „ 28, '90	13·27	Weather—seasonable. The heavy rainfall has done much good. *Aus* sown in some places. Prospects of *pania aus* good. Price of common rice steady.
23	Noakholly „ 28, '90	9·58	Weather—cloudy and rainy with high wind. State and prospects of crops good. Sowing of *amun* progressing. Heavy flood in Chagulnaya and Parsuram. Unless it subsides at once it may injure the crops.
24	Tipperah ...	...	Report not received.
25	Chittagong Hill Tracts. 26, '90	8·58	Weather—rainy and cloudy throughout the week. *Jum* paddy and cotton plants progressing. Prospect of rice crop good. Sowing in seed-bed by plough-cultivators commenced. Common rice is being sold at 11 seers 6¼ chittacks per rupee.
	Hill Tipperah ...	...	Report not received.
BEHAR.			
Patna Divn. 26	Patna „ 28, 90	5·52	Weather—hot. Sowing of paddy is fast going on. Transplanting of *marua* continues. Other *bhadoi* crops are being sown. Harvesting of *cheena* nearly finished. Prices of food-grains stationary.
	Barh ...	5·70	
	Behar ...	10·11	
	Dinapore ...	4·78	
27	Gya „ 28, '90	9·29	Weather—hot and cloudy. Sowing of *marua* and *makai* going on. Sugar-cane doing well. Prices of food-grains stationary.
28	Shahabad „ 28, '90	9·59	Weather—cool. Heavy rain during the week has done much good. Prospects generally favourable.
	Buxar ...	5·35	
	Sasseram ...	7·99	
	Rhabuah ...	7·20	
29	Durbhunga „ 28, '90	4·50	Weather—cloudy. *Bhadoi* cultivation progressing favourably. Transplanting of *marua* commenced in places. Prospects very satisfactory. Indigo manufacture commenced. Prices almost stationary.
	Madhubani ...	2·47	
	Somastipur ...	6·46	
30	Mozufferpur „ 28, '90	5·15	The week has been very rainy throughout the district, and two or three days of sunshine would be beneficial. The temperature has fallen considerably. Sowing of rice and *makai* continues. All crops on the ground doing well.
	Hajipur ...	6·53	
	Sitamarhi ...	2·97	
31	Sarun „ 28, '90	7·50	Weather—cloudy and rainy. *Bhadoi* sowings nearly completed. Paddy sowings in full progress. Indigo manufacture will shortly commence.
32	Chumparun „ 28, '90	6·54	Weather—cloudy and rainy. Good rain all over the district. *Bhadoi* and *aghani* sowings still going on. Transplantation has commenced in some places.
	Bettiah ...	5·73	
Bhagulpore Divn. 33	Monghyr „ 28, '90	10·37	Weather—very wet and cloudy. *Bhadoi* sowings going on well except in Jamui, where excessive rain has swamped the young growth. Indigo promises well.
	Beguserai ...	5·41	
	Jamui ...	12·41	
34	Bhagulpur „ 28, '90	6·10	Heavy rain during the week with very little sunshine. Prospects everywhere good. Seedlings doing well, and transplantation of *bhadoi* and *aghani* paddy going on. *Mung* harvest nearly over.
	Banka ..	6·88	
	Mudhepura ...	6·80	
	Soopool ...	3·98	
35	Purneah „ 28, '90	5·53	Weather—cloudy with showers. *Bhadoi* rice and jute are being weeded and are doing well. Indigo is being manufactured. *Aghani* transplanting going on.
	Kishengunge ...	5·17	
	Arrareah ...	5·72	
36	Maldah „ 28, '90	4·04	Weather—much cooler. Heavy showers almost every day of the week throughout the district. Sowing of *bhadoi* paddy still going on; in some places it is being weeded. Sowing of winter rice also going on. State of mulberry good. Common rice selling at from 13 to 18 seers per rupee.
	Chanchal ...	2·79	
	Shibgunge ...	5·46	
	Gajole ...	2·92	
37	Sonthal Perghs. „ 28, '90	11·16	Weather—wet and cloudy. Rain every day and cultivators everywhere busy ploughing, sowing and preparing ground for transplantation. Both *makai* and paddy crops doing fairly well. A few fine days wanted. More rain will harm the *jonara*.
	Deoghur ...	7·95	
	Godda ...	5·75	
	Jamtara ...	19·77	
	Pakour ...	6·82	
	Rajmehal ...	4·35	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack ...	...	Report not received.
	39	Pooree ...	...	Report not received.
	40	Balasore June 28, '90	1·72	Weather—cloudy with constant showers. The *beali* rice sowings have been most successful. Prospects generally good. Number of coolies on relief-works 78.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh June 28, '90	4·21	Weather—seasonable. Ample rain all over the district. Sowings of paddy and *bhadoi* crops well advanced everywhere and completed in some places. Prospects good. Rice selling at from 15 to 20 seers per rupee.
	42	Lohardugga ,, 28, '90 Palamow (up to 23rd June)	3·29 4·05	Weather—seasonable. Sowing of winter rice going on. Prospects of *bhadoi* good. Sugarcane in Palamow good. Prices steady.
	43	Singbhoom June 28, '90	3·51	Weather—seasonable. *Bhadoi* and rice crops doing well. Price of rice ranges from 18 to 24 seers per rupee.
	44	Manbhoom ,, 28, '90 Govindpore ...	8·33 10·74	Weather—seasonable. Heavy rain during the week. Sowing going on vigorously. Rice selling at from 18 to 28 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 1st July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Beng

the week ending Friday, the 27th of June 1890.

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air Pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M.
Orissa.	Pooree	Pooree ...	29·632	29·644	—	SW	422·	89·2	27th June	77·6	21st June	90·8	80·2	83·5	—	83
		Gopalpore ...	29·631	29·653	+·033	SSW	539·	87·2	21st, 22nd June	80·3	24th, 26th June	85·7	81·5	83·6	—0·5	83
		False Point ...	29·613	29·635	+·030	SW	397·7	88·5	27th ,,	76·6	21st ,,	86·3	79·2	82·8	—2·0	83
	Cuttack	Cuttack ...	29·557	29·638	+·007	SW	140·7	93·4	26th ,,	77·9	21st, 27th June	89·5	79·0	84·2	—2·7	83
	Balasore	Balasore ...	29·558	29·617	—·005	SW, SSW	223·3	90·7	27th ,,	75·7	21st ,,	87·5	77·3	82·4	—2·8	81
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·584	29·610	—·003	SSW	657·1	90·2	27th ,,	76·6	23rd ,,	86·6	80·4	83·5	—2·4	83
	Midnapore	Midnapore ...	29·440	29·591	—·035	S	265·0	93·3	27th ,,	72·2	22nd ,,	86·4	76·3	81·4	—4·5	80
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	Calcutta ...	29·509	29·590	—·031	SW	185·1	90·5	27th ,,	75·2	26th ,,	85·6	77·3	81·5	—3·1	81
	Burdwan	Burdwan ...	29·465	29·595	—·053	South-westerly	160·4	93·1	27th ,,	75·4	25th ,,	87·5	77·5	82·5	—4·0	80
	Bankoora	Bankoora ...	29·254	29·554	—·039*	Calm	141·0	93·1	27th ,,	75·6	23rd—25th June	86·1	76·8	81·5	—	79
	Beerbhoom ... ... / West Burdwan	Raneegunge	29·237	29·570	—·042	SW	122·8	92·5	27th ,,	76·4	25th ,,	86·6*	77·2*	82·3*	—4·2	79
	Moorshedabad	Berhampore	29·490	29·557	— ·067	Variable	179·7	92·2	22nd, 27th June	74·8	25th ,,	88·6	77·3	83·0	—2·3	80
	Nuddea	Krishnaghur...	29·519	29·567	—·048	Southerly	181·6	92·3	27th ,,	74·8	26th ,,	88·0	77·0	82·5	—3·4	81
	Jessore ... ... / Khoolna	Jessore ...	29·549	29·583	—·033	SE	86·3	93·2	27th ,,	76·4	23rd ,,	87·2	78·8	83·0	—2·0	81
East Bengal.	Chittagong	Chittagong ...	29·541	29·681	—·034	SSE		88·1	21st ,,	72·5	25th ,,	83·3	75·5	79·4	—1·8	79
	Chittagong Hill Tracts	Demagiri ...	Observations not received.													
	Backergunge	Barrisal ...	29·610	29·622	— 016	S	156·0	89·3	27th June	74·4	22nd, 24th June	84·0	76·5	80·3	—2·7	80
	Noakholly	Noakholly ...	29·567	29·651	—·036	SE	205·0	87·0	25th ,,	72·8	24th ,,	84·5	75·9	80·2	1·5	79
	Furreedpore	Furreedpore	29·570	29·619	—·044	S	173·9	89·5	27th ,,	75·9	24th ,,	85·1	77·7	81·4	—1·9	80
	Dacca	Dacca ...	29·580	29·603	—·036	S	212·3	89·6	27th ,,	74·2	24th ,,	85·4	76·6	81·0	—2·9	80
	Commillah	Commillah ...	29·660	29·636	—·040	SE, SW	191·9	89·4	21st ,,	73·8	24th ,,	84·7	75·7	80·2	—2·5	79
	Mymensingh	Mymensingh ...	29·549	29·607	— ·061	ESE	136·2	88·7	21st ,,	75·6	24th ,,	84·8	76·9*	80·9	—1·3	78
North Bengal.	Bogra	Bogra ...	29·508	29·571	—·036	SE	125·2	92·3	27th ,,	74·7	25th ,,	87·1	76·5	81·8	—1·9	80
	Pubna	Serajgunge ...	29·538	29·585	— 005	S	83·3	89·6	27th ,,	74·7	25th, 27th June	86·0	76·5	81·3	—2·0	79
	Rajshahye	Rampore Beauleah.	29·491	29·563	—·052	South-easterly	202·1	90·8	27th ,,	74·6	25th ,,	87·2	77·4	82·3	—1·3	82
	Maldah	Maldah ...	29·473	29·554	—·001	E	90·1	92·5	27th ,,	74·7	25th ,,	88·0	77·4	82·7	—	81
	Dinagepore	Dinagepore ...	29·447	29·568	—·085*	Easterly	129·9	92·1	27th ,,	77·1	24th ,,	88·3	79·0	83·7	+0·8	79
	Rungpore	Rungpore ...	29·488	29·613	—·057	Variable	313·1	90·8	27th ,,	75·7	25th, 26th June	88·9	77·1	83·0	+1·4	80
	Julpigoree ... ... / Cooch Behar	Julpigoree ...	29·297	29·586	—·082	†	†	89·0	22nd ,,	71·1	23rd ,,	87·5	74·3	80·9	—0·1	79
	Darjeeling Hill Tracts ...	Darjeeling ...	22·836	—	—·049	Variable	140·9	63·6	27th ,,	50·1	22nd, 24th, 25th June	62·4†	56·4†	59·5†	—1·7	69
North Behar.	Purneah ... ... / North Bhagulpore ...	Purneah ...	29·423	29·559	— 069	Variable	103·5	92·7	27th ,,	74·4	25th ,,	87·8	77·5	82·7	—1·2	81
	Mozufferpore	Mozufferpore	Complete observations not to hand.													
	Durbhunga	Durbhunga ...	29·394	29·561	—·051	ESE	115·7	91·9	23rd June	—	—	88·5	—	—	—	81
	Chumparun ...	Motihari ...	29·337	29·565	— 034	ESE	201·0	91·2	27th ,,	75·9	25th, 26th June	88·6	77·2	82·9	—2·0	80
	Sarun	Chupra ...	29·348	29·541	—·061	SE	138·5*	91·3	27th ,,	76·6	25th ,,	87·6	77·5	82·6	—3·6	82
South Behar.	Shahabad	Dehree ...	29·198	29·552	—·037	S-wly	120·2	93·3	23rd ,,	75·0	23rd ,,	87·5	77·6	82·6	—3·7	81
		Buxar ...	29·264	29·636	—·022	Southerly	156·8	89·9	24th ,,	75·3	25, 26 ,,	87·1	76·9	82·0	—4·4	80
		Arrah ...	29·243	29·638	—·026	ESE	96·6	90·1	27th ,,	76·0	21, 24 ,, 25th June	87·8	77·5	82·7	—4·4	81
	Gya	Gya ...	29·188	29·566	—·038	Variable	107·8	92·9	27th ,,	75·8	24th ,,	88·6	78·5	83·6	—4·7	81
	Patna	Bankipore ...	29·359	29·542	— 060	Variable	122·2	91·9	24th ,,	76·2	25th, 26th June	88·3	77·6	83·0	—4·2	80
	South Bhagulpore ... / Monghyr ...	Bhagulpore ...	29·309	29·531	—·073	Calm	93·1	93·7	27th ,,	75·9	25th ,,	89·6	78·0	83·3	—2·2	81
Chutia Nagpur.	Sonthal Pergunnahs ...	Deoghur ...	29·047	29·543	— 058	Variable	151·9	91·4	27th ,,	73·3	25th ,,	86·7	76·7	81·7	—3·9	80
	Hazaribagh	Hazaribagh ...	27·580	29·580	—·042	WSW	276·6	86·5	27th ,,	70·2	25th ,,	81·4	72·9	77·2	—5·5	76
	Lohardugga ... ... / Manbhoom	Ranchee ...	27·405	29·579	—·037	SW	193·5	84·0	23rd ,,	70·9	24th ,,	80·9	72·6	76·5	—3·7	75
	Singbhoom	Chyebassa ...	28·892	29·586	—·003	WSW	170·8	92·9	27th ,,	74·7	24th ,,	85·2	76·3	80·8	—5·9	78
Assam.	Assam	Sibsagar ...	29·380	29·664	—·028	South-westerly		92·6	27th ,,	70·0	25th ,,	90·1	77·7	83·9	+0·2	80
		Dhubri ...	29·484	29·661	—·063	North-easterly	172·9	94·2	22nd ,,	75·3	25th ,,	84·4	76·9	80·7	+0·8	78
		Silchar ...	29·560	29·665	—·046	ESE		93·5	21st ,,	73·3	24th ,,	88·4	76·2	82·3	+0·1	79

Meteorological Division.	District.	Representative station.	DISTRICT OBSERVATIONS. Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Rainfall. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
Orissa.	Pooree	Pooree ...	0·7	0·29		2·41		6·57			8·29			3·2	Pooree	Pooree	Orissa.
		Gopalpore ...	4·9	0·30											Gopalpore ...		
		False Point ...	8·3	1·04											False Point ...		
	Cuttack	Cuttack ...	8·7	0·73	1·02	2·40	8·15	7·57	+0·58	11·05	9·04	+1·41	3·4	3·3	Cuttack ..	Cuttack	
	Balasore	Balasore ...	7·0	2·21	3·00	2·52	9·05	7·38	+1·37	14·18	9·95	+4·23	4·5	3·4	Balasore ...	Balasore	
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	9·3	5·06	4·94	2·02	9·67	8·69	+0·98	16·64	10·93	+5·71	5·7	3·9	Saugor Island ..	South-West Midnapore / South 24-Pergunnahs	South-West Bengal.
	Midnapore	Midnapore ...	6·3	13·34	8·27	2·35	13·71	8·60	+5·11	19·91	10·64	+9·27	6·7	3·6	Midnapore .	Midnapore	
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	Calcutta ...	7·7	7·56	8·41	2·29	14·28	8·03	+6·35	18·02	11·60	+7·32	6·0	4·2	Calcutta ...	24-Pergunnahs... ... / Howrah ... ... / Hooghly	
	Burdwan	Burdwan ...	9·7	12·31	12·70	2·31	18·78	8·19	+10·59	21·61	10·81	+10·80	7·0	3·7	Burdwan ...	Burdwan	
	Bankoora	Bankoora ...	8·6	7·18	8·43	2·50	13·22	9·01	+4·21	17·28	11·13	+6·15	6·0	3·9	Bankoora ..	Bankoora	
	Beerbhoom ... ... / West Burdwan	Raneegunge	6·1	13·49	11·00	3·09	16·03	9·14	+6·89	17·80	11·14	+6·66	6·0	4·2	Raneegunge ..	Beerbhoom ... / West Burdwan ...	
	Moorshedabad	Berhampore .	9·0	7·43	6·31	2·50	11·00	8·45	+2·55	13·58	11·37	+2·01	5·2	3·6	Berhampore .	Moorshedabad ...	
	Nuddea	Krishnaghur ..	8·0	11·41	6·43	2·20	11·78	9·11	+2·67	15·67	12·61	+2·06	6·0	3·8	Krishnaghur ..	Nuddea	
	Jessore ... ... / Khoolna	Jessore ...	9·0	15·62	9·52	2·80	14·23	11·31	+2·92	18·89	14·68	+4·21	5·9	4·3	Jessore ..	Jessore ... ... / Khoolna	East Bengal.
East Bengal.	Chittagong	Chittagong .	9·0	12·18	18·52	7·16	24·63	26·63	—2·00	29·72	31·90	—2·78	7·0	5·3	Chittagong .	Chittagong	
	Chittagong Hill Tracts	Demagiri ...				4·48		18·17			22·44			5·0	Demagiri ...	Chittagong Hill Tracts	
	Backergunge	Barrisal ...	9·3	12·84	10·69	5·08	15·55	17·65	—2·10	21·61	21·54	+0·07	6·3	5·3	Barrisal ..	Backergunge	
	Noakholly	Noakholly ..	5·9	10·23	1·50	0·51	19·19	25·34	—6·15	27·29	39·11	—2·91	7·0	5·0	Noakholly .	Noakholly	
	Furreedpore	Furreedpore .	8·6	4·13	4·18	2·68	8·68	11·29	—2·61	12·22	15·62	—3·40	4·7	4·5	Furreedpore .	Furreedpore	
	Dacca	Dacca .	9·6	5·73	6·36	2·96	11·86	11·98	—0·12	20·53	16·04	+4·49	6·3	4·5	Dacca .	Dacca	
	Commillah	Commillah ..	7·1	8·60	6·14	3·57	14·38	15·40	+1·02	20·57	19·64	+0·93	4·8	4·9	Commillah .	Pipporah	
	Mymensingh	Mymensingh .	9·4	8·63	7·97	3·74	19·20	16·04	+3·16	26·77	20·99	+5·78	6·2	4·9	Mymensingh .	Mymensingh	
North Bengal.	Bogra	Bogra ..	7·3	7·92	8·31	3·68	15·89	12·08	+3·81	20·26	16·67	+3·59	6·3	4·4	Bogra .	Bogra	
	Pubna	Serajgunge ..	9·0	5·56	4·52	2·58	10·25	10·35	—0·10	16·10	14·15	+2·25	6·0	4·5	Serajgunge .	Pubna	
	Rajshahye	Rampore Beauleah.	4·0	9·97	10·89	2·86	17·50	9·74	+7·76	22·20	13·25	+8·95	6·0	3·9	Rampore Beauleah	Rajshahye	
	Maldah	Maldah ...	5·9	4·14	3·42	1·58	9·08	10·77	—1·69	12·10	13·55	—1·45	6·5	4·7	Maldah .	Maldah	
	Dinagepore	Dinagepore .	9·6	3·95	4·85	4·19	14·70	12·30	+2·40	18·17	16·17	+1·70	6·0	4·5	Dinagepore .	Dinagepore	
	Rungpore	Rungpore ...	5·9	5·60	7·27	6·21	27·09	19·92	+7·17	31·34	27·31	+4·03	6·0	4·8	Rungpore .	Rungpore	
	Julpigoree ... ... / Cooch Behar	Julpigoree ...	4·1	0·89	7·15	0·80	42·41	29·13	+13·28	45·05	37·89	+8·06	6·4	5·9	Julpigoree ..	Julpigoree ... ... / Cooch Behar	
	Darjeeling Hill Tracts ..	Darjeeling ...	10·0	14·71	10·54	8·34	28·80	25·30	+3·50	33·23	32·08	+1·15	7·0	6·0	Darjeeling .	Darjeeling Hill Tracts	
North Behar.	Purneah ... ... / North Bhagulpore ...	Purneah ...	7·1	4·51	4·57	3·38	14·47	10·59	+3·88	16·65	13·63	+3·02	5·8	3·7	Purneah .	Purneah ... ... / North Bhagulpore ...	North Bengal.
	Mozufferpore	Mozufferpore			4·79	2·35	7·41	6·80	+0·61	9·19	8·17	+1·02	6·3	3·1	Mozufferpore .	Mozufferpore	
	Durbhunga	Durbhunga ...	7·4	4·50	5·15	2·57	8·85	7·03	+1·82	10·04	8·40	+1·64	6·7	3·3	Durbhunga .	Durbhunga	
	Chumparun ...	Motihari ...	7·7	6·00	6·14	2·62	11·11	7·20	+3·91	14·83	8·55	+6·28	5·9	3·3	Motihari .	Chumparun	
	Sarun	Chupra ...	5·3	7·90	6·57	2·54	9·73	5·49	+4·24	11·40	6·62	+4·78	5·3	3·4	Chupra .	Sarun	
South Behar.	Shahabad	Dehree ...	6·3	6·78											Dehree ...	Shahabad	South Behar.
		Buxar ...	1·3	4·54	5·04	2·11	8·83	4·21	+4·62	9·42	5·08	+4·34	6·1	3·0	Buxar ...		
		Arrah ...	8·1	0·69											Arrah ...		
	Gya	Gya ...	8·3	9·29	10·23	2·07	12·36	4·99	+7·37	13·27	6·36	+6·91	6·3	2·9	Gya .	Gya	
	Patna	Bankipore ...	9·4	5·52	6·24	2·39	7·85	5·49	+2·36	9·15	6·94	+2·21	6·3	3·1	Bankipore .	Patna	
	South Bhagulpore ... / Monghyr ...	Bhagulpore ...	8·9	6·65	7·57	2·36	11·31	6·10	+5·21	13·48	7·72	+5·76	6·6	3·5	Bhagulpore ...	South Bhagulpore / Monghyr ...	
Chutia Nagpur.	Sonthal Pergunnahs ..	Deoghur ...	7·1	11·16	9·28	2·68	13·49	7·94	+5·55	15·86	10·37	+5·49	6·3	3·8	Deoghur ...	Sonthal Pergunnahs ..	Chutia Nagpur.
	Hazaribagh	Hazaribagh ...	10·0	5·45	6·78	2·47	10·03	6·97	+3·06	10·67	8·53	+2·14	5·4	3·7	Hazaribagh .	Hazaribagh	
	Lohardugga ... ... / Manbhoom	Ranchee ...	9·7	4·23	5·14 / 9·51	2·05 / 2·05	7·24 / 11·80	6·58 / 7·30	+0·66 / +4·50	8·32 / 13·29	8·25 / 8·25	+0·07 / +5·03	5·7 / 5·5	4·1 / 4·4	Ranchi ...	Lohardugga ... ... / Manbhoom	
	Singbhoom	Chyebassa ...	8·0	3·78	3·91	2·48	6·46	7·04	—1·18	9·55	10 21	—0·66	6·0	4·5	Chyebassa ...	Singbhoom	
Assam.	Assam	Sibsagar ...	10·0	3 31											Sibsagar... ...		Assam.
		Dhubri ...	9·7	4·34											Dhubri	Assam	
		Silchar ...	9·7	0·99											Silchar		

* Mean of six days. † Mean of five days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ... The *humidity* of the atmosphere is expressed as percentage, saturated air being presented by 1... A clear sky is denoted by 0 and an overcast sky by 10. The number ... are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past ... stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

...ears. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater. ... sky cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means ...ears. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 27th of June 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 21st June.	Sunday, 22nd June.	Monday, 23rd June.	Tuesday, 24th June.	Wednesday, 25th June.	Thursday, 26th June.	Friday, 27th June.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 1 May to date.
ORISSA ...	Pooree ...	Pooree ...	0·03	0·08	0·04	0·32	......	......	......	4	0·47	8·21	6·44	10·05	7·
		Khurdah ...	0·75	......	0·38	0·02	......	......	......	3	1·15	11·45	7·65	15·29	9·
		Banpur ...	......	......	0·61								6·07		6·
		False Point ...	0·38	0·19	0·26	0·08	0·02	......	0·11	6	1·04	8·75	6·13	11·06	8·
		Gor ...											?		
		Satpura ...											?		
		Pipli ...											?		
	Cuttack	Jagatsingpore	......	0·20	......	......	......	......	......	1	0·20	7·28	5·32	7·78	6·
		Banki ...	0·96	......	0·14	......	......	......	0·33	3	1·43	9·12	7·35	12·27	8·
		Cuttack ...	0·34	......	0·15	0·18	......	......	0·36	4	1·03	11·79	9·72	15·01	12·
		Kendrapara ...	0·05	0·02	0·18	0·05	......	......	0·05	5	0·35	4·42	7·12	8·03	9·
		Jajpore ...	0·37	......	1·10	0·32	......	0·32	......	4	2·11	8·19	8·34	14·11	10·
		Dharmsala ...	......	1·00	0·55	......	0·55	......	......	3	2·10	11·38	?	15·93	
		Salipore ...	0·35	0·3	0·21										
	Balasore ...	Chandbali ...	0·22	......	0·74	0·16	......	......	0·22	4	1·34	7·37	6·61	10·61	9·
		Bhuddruck ...	0·62	......	0·18	0·95	0·30	0·03	......	5	2·08	10·59	7·85	14·66	10·
		Sorah ...	......	0·70	......	......	......	......	0·22	2	0·92	10·47	5·93	14·77	9·
		Balasore ...	0·57	......	0·84	0·28	......	0·03	......	4	1·72	8·50	7·71	13·93	10·
		Jellasore ...	4·50	0·60	1·15	0·70	0·05	......	......	5	7·00	11·36	6·92	17·60	8·
		Baripodah ...	0·64	0·70	2·26	0·47	0·04	0·45	0·39	7	4·95	10·[illegible]	9·22	13·52	11·
SOUTH-WEST BENGAL.	Midnapore ...	Contai ...	3·56	0·60	1·00	0·28	0·05	......	......	5	5·47	9·92	8·39	19·80	10·
		Saugor Island	1·78	0·35	2·34	0·99	0·10	0·10	......	6	5·66	9·53	8·80	15·11	11·
		Tumlook ...	0·20	1·50	1·70	0·60	0·10	0·20	......	6	4·30	12·60	8·37	21·60	10·
		Midnapore ...	0·71	7·14	2·55	0·66	0·58	0·97	0·48	7	13·09	17·11	8·03	22·42	10·
		Ghattal ...	0·52	3·52	2·46	0·18	0·26	0·12	0·36	7	7·42	11·43	9·43	15·72	11·
		Kukrahaty ...	0·52	0·03	1·13	0·46	0·23	0·09	......	6	3·36	6·57	?	11·52	
		Garbetta ...	1·82	1·08	1·85	0·22	0·38	1·36	......	6	6·71	11·06	?	14·45	
	24-Pergunnahs	Diamond Harbour ...	0·36	1·34	1·42	0·18	0·34	0·06	......	6	3·70	9·56	8·87	14·99	11·
		Canning Town	0·26	2·36	1·32	0·76	2·54	......	......	5	7·24	12·64	?	16·50	
		Alipore Jail ...	0·83	3·04	2·03	1·37	0·63	0·07	......	6	7·97	13·80	9·57	18·08	12·
		Barrackpore ...	0·40	1·70	3·35	0·83	0·03	1·55	......	6	7·86	11·72	9·39	16·20	11·
		Dum-Dum ...	0·31	2·80	2·00	0·82	0·31	0·06	......	6	6·30	12·06	9·17	16·12	12·
		Baraset ...	1·29	1·88	3·14	0·49	0·40	0·06	......	6	7·26	10·40	8·65	17·00	11·
		Buseerhat ...	0·10	......	3·25	1·01	2·50	0·08	......	5	6·94	14·25	9·68	20·40	13·
	Howrah ..	Howrah ..	1·29	3·25	1·36	0·80	0·36	0·13	......	6	7·19	12·86	9·06	15·87	11·
		Mohesreka (*Ooloberiah.*)	2·61	3·75	2·10	0·62	0·19	0·25	......	6	9·52	23·35	8·26	28·91	10·
	Hooghly ..	Serampore ...	0·72	1·66	3·40	0·75	0·06	1·54	......	6	8·13	12·56	8·90	16·73	11·
		Hooghly ...	0·54	3·47	3·95	2·68	0·09	0·13	......	6	10·86	15·47	8·20	19·46	10·
		Jehanabad .	0·05	2·02	8·40	0·08	1·27	0·22	......	6	12·04	15·19	8·31	20·24	11·
	Burdwan ...	Culna ..	0·27	0·85	8·20	0·70	0·89	0·13	0·52	7	11·56	17·82	7·81	20·47	10·
		Burdwan ...	0·45	1·30	7·24	0·62	0·75	0·83	1·12	7	12·31	17·85	7·31	20·62	10·
		Cutwa ...	5·00	4·62	6·55	1·15	0·45	1·51	0·95	7	14·23	20·67	9·42	23·74	12·
		Raneegunge ..	0·30	2·25	8·05	2·65	0·07	0·17	......	6	13·49	16·51	8·00	18·99	10·
		Mankur ...	0·76	0·58	9·77	0·42	0·66	0·06	......	6	12·85	16·21	?	20·35	
	Bankoora ...	Bankoora ...	0·28	0·36	3·72	2·01	0·16	0·50	......	6	7·01	11·52	8·77	16·13	11·
		Bishenpore ..	1·23	1·36	4·00	0·94	0·82	0·47	......	6	8·83	14·12	8·90	20·70	11·
		Malnra .	3·44	0·57	7·00	1·95	0·10	......	......	5	13·06	20·04	8·22	21·54	10·
		Khatra ...	1·27	0·40	1·20	1·31	0·24	0·39	......	6	4·81	7·22	10·15	10·74	12·
		Indas ..	0·23	0·32	5·30	0·92	0·71	1·30	0·08	7	8·92	12·60	?	15·43	1
		Kotalpore .	0·44	4·40	3·90	0·71	0·62	0·95	......	6	11·02	16·59	?	21·46	1
		Anda .	2·50	2·[illegible]	0·40	1·55	0·52	......	......	5	7·57	11·21	?	14·51	1
		Gangajalghati	0·23	0·72	4·12	3·97	......	......	......	4	9·04	19·61	?	22·62	1
		Kaipore ...	0·83	1·19	1·69	0·72	0·79	0·42	......	6	5·64	8·19	?	14·62	1
		Sonamukhi ..	0·21	0·31	6·07	1·79	0·[illegible]	......	......	5	8·90	12·07	?	14·53	1
	Beerbhoom .	Bh. Soory ...	0·54	0·85	5·84	3·06	0·26	0·11	0·03	7	10·69	15·15	9·31	16·24	11·
		Hetampore ...	0·04	6·80	2·35	0·19	0·80	0·04	......	6	10·22	16·54	10·32	17·57	12·
		Rampore Haut	1·10	2·55	3·25	1·74	0·91	......	......	5	9·55	15·85	8·93	18·31	10·
		Bolpore .	1·21	1·02	5·31	1·08	0·75	0·04	......	6	9·41	14·93	?	17·69	
		Murarai ...	0·30	1·05	0·15	1·10	......	1·70	......	5	4·30	8·76	?	10·59	
	Nuddea ...	Ranaghat	0·04	2·41	4·43	1·27	0·44	0·07	......	6	8·66	15·04	8·85	17·45	11·
		Kishnaghur ...	0·02	0·97	8·17	1·08	0·69	0·11	0·39	7	11·41	14·21	8·30	19·38	11·
		Chooadanga .	0·64	1·75	0·55	1·15	0·29	0·20	......	6	4·58	8·98	8·96	12·55	13·
		Meherpore ...	0·25	0·08	0·30	3·00	0·98	......	......	5	4·56	11·34	9·05	13·49	12·
		Kooshtea .	0·18	0·17	1·00	1·28	0·31	0·04	......	6	2·93	9·29	10·35	14·97	14·
	Khoolna ..	Satkhira .	0·84	1·78	2·70	1·98	2·03	0·03	......	6	9·00	13·30	11·37	21·30	15·
		Bagirhat ...	0·55	4·50	1·42	4·30	3·10	2·15	......	6	16·02	20·09	12·55	26·24	15·
		Khoolna ...	0·76	2·88	2·82	2·05	2·09	0·16	......	6	10·46	15·56	11·91	19·79	14·
		Nakipore ...	0·13	1·02	2·07	2·92	2·61	......	......	5	8·75	14·81	?	26·12	
		Rampal ...	0·59	1·84	1·39	3·56	2·67	......	0·27	6	10·32	15·84	?	21·05	
	Jessore ...	Narail ..	0·11	1·22	2·90	3·88	0·51	0·01	......	6	8·60	12·43	10·42	19·27	13·
		Jessore ...	0·43	4·10	9·92	0·96	0·10	0·05	0·06	7	15·62	19·82	11·78	21·55	15·
		Jhenidah ..	0·50	0·80	2·68	0·85	0·82	......	......	5	5·74	10·54	11·93	12·26	15·
		Magoorah ...	0·07	0·90	2·33	0·62	0·27	......	0·02	6	4·21	11·20	10·97	15·52	15·
		Bongong ..	0·25	0·63	4·50	0·95	0·15	......	......	5	6·48	10·52	9·48	15·12	12·
	Moorshedabad	Kandi ...	......	0·60	2·50	0·53	2·10	0·62	......	5	6·35	11·37	8·58	13·09	11·
		Berhampore ...	0·41	0·56	1·52	0·86	3·97	0·11	......	6	7·43	10·10	8·80	10·61	11·
		Lalbagh ...	0·26	0·95	1·43	0·75	2·39	0·04	......	6	5·82	10·60	7·34	12·24	10·
		Azimgunge ...	0·21	1·35	1·19	2·30	1·75	......	0·85	6	7·65	13·16	8·91	17·83	12·
		Jungipore ..	......	0·51	2·81	1·45	1·12	......	0·64	5	6·03	10·94	8·20	11·47	11·
		Lalgola ...	......	......	0·90	2·00	1·65	......	......	3	4·55	9·85	8·70	16·27	12·
		Jiagunge ...	0·15	1·16	1·37	1·31	1·89	......	0·90	6	6·78	11·90	?	16·80	?
		Akhrigunj ...	0·45	0·24	1·14	1·67	2·85	0·05	0·11	7	6·51	11·79	?	15·59	?
		Patkabari ..	1·30	2·00	2·30	0·80	0·80	0·20	......	6	7·40	12·50	?	13·40	?
EAST BENGAL	Chittagong ...	Cox's Bazar ...	3·[illegible]	3·48	4·24	9·35	0·72	1·22	1·85	7	23·76	32·76	38·50	39·69	38·
		Chittagong ...	0·38	2·58	3·50	3·68	1·40	1·13	0·60	7	18·27	16·40	22·74	18·24	27·
		Kutubdia ...	0·78	3·50	1·75	4·85							?		?
		Satkania ...	0·50	1·00	2·30	3·00	0·80	[illegible]	0·50	7	8·88	12·32	?	14·84	?
	Chittagong Hill Tracts	Rangamati ...	0·15	1·15	2·30	1·30	0·92	2·70	......	6	8·52	13·48	17·71	18·64	22·
		Ruma ...											18·02		22
	Backergunge	Patuakhally ...	0·18	2·00	1·35	6·00	1·75	0·23	......	6	11·51	18·60	20·81	22·65	25·
		Perozepore ...	0·28	1·55	2·89	4·77	1·45	0·94	......	6	11·83	17·22	14·74	22·83	18·
		Burrisal ...	0·90	2·68	0·95	6·25	0·88	0·67	......	6	12·24	18·24	14·70	24·37	18·
		Bhola .	0·31	0·63	0·62	2·79	1·06	1·[illegible]	0·37	7	7·14	10·12	20·31	16·61	23·

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 27th of June 1890—*contd.*

Meteorological Division.	District.	Station.	Rainfall. Saturday, 21st June.	Sunday, 22nd June.	Monday, 23rd June.	Tuesday, 24th June.	Wednesday, 25th June.	Thursday, 26th June.	Friday, 27th June.	Total. Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
T BENGAL *concld.*		*Gowrnuddi* ...	0·95	3·31	1·88	6·15	0·13	......	......	5	12·42	13·67	?	14·77	?
		Bauphal ...	0·14	0·84	0·69	3·85	1·32	0·11	......	6	6·95	10·94	?	17·68	?
	Noakholly ...	Noakholly ...	0·67	1·38	1·01	3·99	1·80	1·04	0·03	7	9·98	16·47	23·39	23·78	28·0[illegible]
		Fenny ...	0·15	0·84	0·78	5·13	3·75	1·10	1·25	7	13·02	21·00	27·27	30·61	32·1[illegible]
		Harishpore ...	1·10	2·15	3·15								?		
		Ramganj ...	0·26	0·24	0·27	2·90	3·15	0·22	......	6	7·04	14·17	?	21·25	
	Furreedpore	Madaripore ...	0·30	1·00	1·68	2·85	......	......	......	4	5·83	7·05	12·06	11·92	[illegible]
		Furreedpore ...	0·15	1·80	2·00	0·47	0·48	0·03	......	6	4·93	10·63	11·32	12·29	[illegible]
		Goalundo ...	0·08	......	1·13	0·97	0·50	......	......	4	2·68	8·37	10·48	12·45	11·20
	Dacca ..	Munshigunge	0·10	1·10	0·03	1·04	1·35	......	2·20	6	6·41	10·80	14·80	21·23	[illegible]
		Dacca ...	0·12	0·35	1·03	2·40	1·70	......	0·18	6	5·84	10·94	12·23	19·38	[illegible]
		Naraingunge ...	0·09	0·54	0·48	1·46	1·46	......	1·84	6	5·87	11·12	11·58	21·09	[illegible]
		Manickgunge ...	0·22	0·18	2·77	2·03	1·30	0·15	1·47	7	8·12	15·39	9·41	21·23	[illegible]
		Joydebpore ...	0·02	0·20	0·31	3·82	1·09	0·10	0·31	7	5·85	11·16	?	23·29	?
	Hill Tipperah. Tipperah ...	Agartola ...	......	......	1·27	3·35	1·12	0·73	0·35	5	6·82	16·06	18·67	23·34	[illegible]
		Comilla ...	0·19	0·93	0·12	1·33	1·38	0·95	2·31	7	7·21	13·86	18·03	20·21	22·34
		Chandpore ...	......	1·12	1·42	2·96	1·63	......	......	4	7·13	15·39	15·26	21·48	[illegible]
		Brahmanberia	......	......	0·66	2·25	0·50	......	......	3	3·11	12·21	14·62	17·10	[illegible]
		Ramchandrapore	0·21	0·20	0·25	1·72	2·35	1·02	1·61	7	7·36	13·31	?	17·88	?
		Nasirnagar ...	......	......	0·10	0·50	......	......	0·55	3	1·15	9·68	?	16·82	?
		Daudkandi ...	......	0·91	0·78	1·04	0·94	......	1·27	5	4·94	9·83	?	12·71	?
		Kasba ...	0·05	1·03	1·50	3·10	1·19	2·02	1·11	7	10·29		?		?
		Laksham ...	......	......	2·33	......	8·35	......	......	2	10·67	16·40	?	23·46	?
	Mymensingh..	Kishoregunge	......	0·21	......	2·24	1·30	0·31	0·36	5	4·18	17·79	18·17	25·62	[illegible]
		Atia (*Tangail*)	0·13	......	2·69	1·95	0·41	......	0·22	5	5·70	11·01	11·57	22·70	[illegible]
		Mymensingh	0·67	0·01	0·05	2·41	1·57	0·97	2·70	7	9·31	20·21	17·57	26·74	[illegible]
		Jamalpore ...	1·13	1·11	0·48	1·27	7·12	1·05	0·50	7	12·68	22·49	13·64	28·10	[illegible]
		Netrokona ...	0·76	0·23	0·12	3·70	0·10	0·10	2·40	7	7·71	24·54	18·96	30·71	[illegible]
		Suborunkhali	......	......	......	2·57	3·47	0·03	0·38	4	6·45	9·19	?	15·71	?
		Durgapore ...	0·70	......	......	3·50	5·80	1·70	0·30	5	12·00	30·73	?	35·76	?
		Sherepore Town	......	0·12	0·21	0·54	4·65	0·22	0·54	6	6·60	18·07	?	23·64	?
		Dewangunj ...	......	......	0·30	6·15	......	3·20	0·05	4	9·70	17·39	?	26·53	?
NORTH BENGAL.	Pubna ..	Pubna ...	0·17	0·80	0·03	0·05	0·62	......	0·20	6	2·37	11·28	10·12	14·79	[illegible]
		Serajgunge ...	0·19	0·13	0·90	2·83	1·81	......	0·50	6	5·67	9·20	10·57	18·01	[illegible]
	Bogra ...	Shercpore ...	0·12	......	0·30	1·54	7·00	1·18	0·45	6	11·07	15·95	11·55	19·71	16·63
		Nowkhilla ...	0·64	......	0·30	0·27	3·27	0·90	0·38	6	5·76	11·97	12·05	17·86	15·88
		Bogra ...	0·30	......	0·24	0·78	4·18	0·08	2·15	7	7·73	13·23	13·53	17·26	15·30
		Panchbibi ...	0·27	0·30	0·11	2·36	4·10	0·80	0·50	7	8·67	22·37	11·15	20·13	15·76
	Rajshahye ...	Beauleah ...	1·01	0·13	0·13	2·87	6·07	......	0·29	6	10·50	16·28	8·73	19·76	11·84
		Nattore ...	0·75	0·10	0·33	2·70	7·62	0·02	2·34	7	13·86	21·25	9·29	28·05	12·56
		Naogaon ...	......	......	0·57	4·91	1·89	0·19	0·76	5	8·32	14·98	11·21	18·81	15·95
		Lalpore ...	......	0·16	1·87	1·16	0·09	......	......	4	3·58	8·49	?	11·39	?
		Manda ...	......	......	1·50	2·30	0·50	0·30	......	4	4·60	7·44	?	9·38	?
	Maldah ...	Maldah ...	0·77	1·14	0·44	0·94	0·33	0·23	0·13	7	4·04	10·81	10·52	14·06	12·29
		Chanchal ...	0·11	0·30	0·32	0·13	1·83	0·10	......	6	2·79	8·52	11·00	10·12	[illegible]
		Gajol ...	0·38	0·15	0·57	0·24	0·70	......	......	5	2·02	11·22	?	13·27	?
		Sibganj ...	0·34	0·16	1·25	0·78	0·91	0·04	0·14	7	3·61	12·25	?	17·43	?
	Dinagepore ...	Mohadebpore	0·26	0·10	1·43	3·70	1·90	0·61	......	6	8·30	13·41	11·64	16·43	15·41
		Churamon ...	......	0·16	0·30	0·19	2·73	0·13	......	5	4·11	11·46	11·06	16·87	14·16
		Raigunge ...	0·20	0·38	0·50	0·15	3·25	......	0·26	6	4·74	14·07	11·62	16·81	17·38
		Dinagepore ...	0·17	0·73	0·41	0·65	0·98	0·14	......	5	2·78	16·63	11·65	21·91	19·68
		Balooorghat ...	0·31	0·24	0·24	1·21	1·64	0·24	0·36	7	4·31	14·91	10·48	18·81	15·71
		Thakoorgaon	0·89	......	......	1·40	4·60	2·28	2·23	5	11·40	28·14	?	30·10	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	0·20	0·30	......	0·20	5·50	1·30	1·04	6	8·54	27·68	15·05	28·25	20·51
		Rungpore ...	0·73	0·18	......	0·65	3·23	1·10	0·19	6	6·08	22·89	17·94	25·85	[illegible]
		Kurigram ...	1·40	......	0·20	2·56	3·64	0·03	0·40	6	8·23	30·91	22·15	31·50	[illegible]
		Bagdogra (*Nilphamari*)	0·98	......	0·36	2·30	0·85	......	1·73	5	6·22	30·90	24·51	36·74	8·31
		Ulipore ...	0·40	......	......	0·75	3·51	0·26	0·68	5	5·60	21·63	?	25·07	?
	Julpigoree ...	Julpigoree ...	......	0·20	0·18	2·19	3·36	0·80	0·23	6	7·28	35·33	26·15	32·71	34·11
		Alipore Dooar	......	0·16	0·30	2·11	2·18	0·05	1·41	6	6·80	17·36	?	50·72	?
		Fallacotta ...	......	0·12	0·30	0·43	1·85	0·16	2·19	6	6·14	41·46	?	13·39	?
		Debiganj ...	0·35	......	0·33	0·17	2·83	0·22	2·00	6	6·20	29·36	?	36·37	?
	Cooch Behar..	*Bhagatpore* (*Nagrakatta*).	......	0·18	0·46	0·91	4·38	0·49	0·92	6	7·34	26·00	?	33·36	?
		Dinhatta ...	0·05	0·04	0·21	1·80	2·06	0·21	1·63	7	6·09	39·50	28·30	42·51	38·60
		Cooch Behar...	......	0·05	0·30	4·10	0·44	......	0·80	6	5·72	44·04	34·36	48·76	43·28
		Mickligunge...	0·09	0·22	0·22	1·58	2·05	0·18	1·75	7	6·09	15·22	25·94	18·16	34·61
		Matabhanga...	0·02	0·24	2·58	2·47	0·13	0·35	4·17	7	9·96	43·94	30·01	47·86	38·85
	Darjeeling Hill.	Buxa ...	0·03	0·11	1·38	2·14	3·92	0·65	0·88	7	9·06	33·06	30·80	40·86	53·48
		Siliguri ...	0·06	1·28	0·10	1·00	3·90	0·73	0·20	7	7·[illegible]	29·78	24·37	36·10	39·10
		Darjeeling ...	1·04	0·12	1·84	3·61	6·44	1·50	0·10	7	14·71	26·80	21·41	30·23	21·88
		Kalimpong ...	0·38	0·10	2·[illegible]	8·62	2·87	1·41	0·09	7	11·12	19·04	15·62	20·72	18·40
		Kurseong ...	0·30	0·03	2·90	1·55	7·50	1·46	2·28	7	16·00	32·53	?	38·73	?
TH BEHAR.	Purneah ...	Kissengunge...	0·80	......	0·48	0·05	1·20	1·41	1·35	6	5·80	21·68	14·37	22·63	18·47
		Arrareah ...	0·30	......	0·23	0·11	3·25	......	0·35	5	4·24	12·67	11·37	15·89	14·89
		Purneah ...	0·10	0·32	0·54	0·14	2·85	0·10	0·16	7	4·41	18·14	10·53	21·05	13·56
		Gondwara ...	0·35	0·32									?		?
		Balarampore	0·10	0·37	......	0·36	2·60	......	1·70	5	5·18		?		?
		Masari ...	......	0·40	2·20	0·30	5·00	0·30	......	6	8·20	12·59	?	13·83	?
		Kaliaganj ...	0·35	0·62	1·00	0·50	6·35	0·09	1·50	7	10·41	27·15	?	29·17	?
	North Bhagulpore.	Maddapore ...	0·25	......	2·40	0·40	0·60	......	0·55	5	4·20	12·18	8·04	14·98	10·41
		Soopool ...	0·31	......	1·30	0·70	0·67	0·93	0·32	5	4·13	7·71	8·00	8·88	10·90
		Protabganj...	......	3·20	......	3·04	0·10	......	0·75	4	7·15	10·70	?	11·38	?
	Durbhunga ...	Tajpore ...	0·58	2·02	0·22	0·02	2·56	1·03	......	6	6·43	7·78	6·81	8·46	7·74
		Durbhunga ...	0·38	0·10	0·35	0·59	1·54	1·53	0·03	7	4·50	9·87	6·94	11·20	8·24
		Madhubani ...	0·17	0·40	[illegible]	0·10	1·78	1·37	0·02	7	4·54	8·91	7·53	10·57	9·20
		Bahera ...	0·23	0·70	1·[illegible]	0·10	1·00	1·73	1·16	7	6·45	10·60	?	12·80	?
		Roshera ...											?		?
	Mozufferpore	Sitamarhi ...	0·10	0·05	0·32	0·20	1·66	0·48	0·22	7	2·97	6·39	7·36	8·18	8·76
		Mozufferpore	0·63	......	1·03	0·20	2·53	0·77	......	5	5·15	8·42	6·78	9·50	8·22
		Hajipore ...	0·19	0·21	0·01	0·13	3·90	1·07	0·13	7	6·24	7·41	6·27	10·07	7·50
		Paru ...	0·46	0·60	0·76	0·14	3·95	1·03	......	6	6·88	8·76	?	9·41	?
		Mahua ...	......	......	0·40	0·15	4·35	1·20	......	4	6·10	10·53	?	11·36	?
		Bishar ...	0·30	......	[illegible]	0·45	3·70	0·90	......	5	5·80	9·00	?	10·55	?
		Pupri ...	0·10	0·30	[illegible]	0·27	2·27	1·20	......	6	5·05	9·07	?	10·78	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 27th of June 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 21st June.	Sunday, 22nd June.	Monday, 23rd June.	Tuesday, 24th June.	Wednesday, 25th June.	Thursday, 26th June.	Friday, 27th June.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —*concluded.*	Chumparun...	Motihari ...	0·11	0·29	.....	0·24	4·57	1·24	0·09	6	6·54	10·83	6·56	17·32	8·01
		Bettiah ...	0·12	.....	.....	0·32	4·00	1.29	.....	4	5·73	11·37	6·82	12·30	8·0
		Bagaha ...	0·22	.....	0·28	0·14	1·31	1·45	2·75	6	6·15	14·46	?	15·07	?
		Burhurwa ...	0·34	0·17	.....	0·41	2·30	2·00	0·03	6	5·25	9·46	?	10·98	?
	Sarun ...	Gopalgunge ...	0·20	.....	.....	0·70	3.60	0·70	0·20	5	5·40	7·40	4·88	8·90	6·1
		Sewan ..	0·03	.....	2·12	1·51	2·01	.....	0·32	5	6·81	12·05	6·03	13·66	7·1
		Chuprah ...	0·07	0·16	1·00	3·57	1·57	.....	0·21	6	7·60	9·73	5·58	11·72	6·5
South Behar	Shahabad ..	Buxar .	1·60	0·18	0·91	0·48	1·50	0·35	0·09	7	5·11	6·02	4·21	8·16	4·8
		Dehree ...	1·56	0·02	2·03	0·95	0·07	0·08	1·17	7	6·78	9·58	2·99	9·58	4·1
		Bhaboouh ...	0·46	... ..	0·70	0·70	1·10	0·10	0·10	6	3·10	7·78	4·48	7·78	5·0
		Sasseram ...	1·00	0·10	2·59	0·39	0·29	.....	0·10	6	4·47	9·15	4·20	9·44	4·9
		Arrah ...	1·95	0·07	1·80	2·62	1·05	1·85	.....	6	10·24	10·09	5 20	12·18	6·3
		Mohaniah ...	.....	1·30									?		?
	Gya ..	Aurungabad...	0·25	2·47	3·23	1·05	0·05	0·43	.....	6	7·48	9·17	5·00	9·51	6·3
		Gya ...	0·96	0·04	3·08	3·94	1·26	0 01	... ..	6	9·29	11·10	5·39	11·11	6·8
		Nowadah ...	0·06	0·30	5·15	6·65	1·35	1·23	0·97	7	10·71	14·45	4·77	15·48	6·2
		Jehanabad ...	3·10	0·15	0·68	3·10	4·03	0·37	.....	6	13·43	14·69	4·77	16·05	6·4
		Arwal ...	0·30	3·30	... .	.....	.....	.....	3·50	3	7·10	9·24	?	10·13	?
		Daudnagar ...	0·99	0·40	0·50	.....	0·30	... ..	.....	4	2·19	3·54	?	3·81	?
		Sherrghati ...	.....	0·50	1·50	1·56	0·50	... ..	.....	4	4·06	5·18	?	6·18	?
		Rajauli ...	1·09	0·30	2·36	4·35	1·45	0·13	0·55	7	10·23	11·32	?	11 92	?
		PakriBarawan	.....	2·40	1·00	5·10	2·35	1·30	0·85	6	13·00	16·33	?	16·68	?
	Patna ...	Patna ...	0·14	0·06	1·62	0·50	2·26	0·89	0·05	7	5·52	6·62	6·13	8·09	7·7
		Dinapore ..	0·55	0·05	0·72	2·76	0·35	0·84	0·45	7	5·72	6·76	5·74	8·68	6·9
		Behar ...	0·80	0·77	0·06	5·89	1·22	.....	0·07	6	8·72	11·15	5·77	12·22	7·2
		Barrh ...	0·60	.....	0·50	3·00	0·80	.....	0·10	5	5·00	6·75	4·33	7·15	5·7
		Buckram ...	2·50	1·08	0·04	3·30	1·70	0·82	.....	6	10·34	12·19	.	13·27	?
		Hilsa ...	.....	0·13	3·10	5·17	1·16	0·70	0·20	6	10·46	11 86	?	14·11	?
	Monghyr ...	Begoosserai ...	0·92	0·36	0·31	0·10	3·00	0·45	.....	6	5·14	7·34	5·95	8·77	7·1
		Monghyr	1·60	4·42	1·92	0·18	0·55	1·68	0·02	7	10·37	13·87	5·04	16·47	7·3
		Jamui ...	0·54	0 79	1·48	2·47	2·61	1·60	0·65	7	10·14	17·05	5·70	18·25	7·1
		Gogri ...	1·60	.....	2·64	..	... ..	3·52	... ..	3	7·76	12·30	?	14·24	?
		Sheikpura ...	1·90	.....	0·65	2·55	3·00	0·74	0·20	6	9·04	12·97	?	13·27	?
	South Bhagulpore	Bhagulpore ...	0·83	0·04	1·59	0·12	1·14	2·89	0·14	7	6·75	10·33	6·67	12·66	8·3
		Banka .	1·09	0·10	0·87	1·05	1·06	1·29	.....	6	5·46	7 93	6·52	11·21	8·3
		Kelgaon ...	0·76	0·74	2·75	0·31	2·40	0·90	. .	6	7·86	11·04	?	13·05	?
		Bangaon ...	.....	1·80	1·56	0 34	.....	0·60	0·94	5	5·24	8·82	?	9·92	?
	Sonthal Pergunnahs.	Rajmehal ...	0·58	0 06	0·38	0·82	0·98	0·57	0·15	7	3·54	10·56	9·21	12·06	12·1
		Godda ...	1·30	0 35	1·25	1·20	1·05	.....	0·04	6	5·79	9·46	5·81	12·61	8·2
		Pakour ...	0·28	0·09	2·47	1·85	1·09	0 78	2 78	7	9·34	17·53	9·72	20·76	12·7
		Nya Doomka	1·07	0 07	3·25	6·11	0·40	0·12	0 14	7	11·16	14·21	8·01	16·16	10·2
		Deoghur ...	0·19	1·69	0·81	3·95	0 81	.....	0·60	6	7·66	9·04	7·32	10·95	9·2
		Jamtara ...	0·62	1·38	8·50	8·05	0 12	.....	...	5	18·76	20·11	7·62	22·00	9·6
		Mohagama ...	2·25	1·85	1·38	..	2·55	.....	0·24	5	8·27	12·79	?	13·56	?
		Namhat ...	0 75	0·20	1 07	1·25	0·12	.....	0·76	6	4·15	6·38	?	6·97	?
Chutia Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	0·02	0·06	3·13	6·52	1·36	.....	0·30	6	12·29	16·56	7·50	18·24	9·0
		Hazaribagh ...	0·61	0·03	1·31	2·69	0·82	.....	0·08	6	5·44	7·63	6·32	8·49	7·8
		Sentasgurah ..	0·05	0·70	1·92	1·40	.....	.....	0·55	5	4·62	6·16	6·03	6·62	8·1
		Mahudi Hill's											6·25		7·7
		Jhoomra Hills	0·80	0·80	2·50	2·00	... ..	.....	0·60	5	6·70	12·50	8·10	12·50	9·8
		Barhi ...	0·83	0·76	... ..	2·80	0 47	.....	.. ..	4	4·86	7·13	?	7·07	?
		Chatra ...	.....	0·80	2·50	0·80	.....	.....	0·35	4	4·15	6·45	?	7·25	?
		Karagdeha ...	0·70	0·79	1·04	8·59	1·05	0·39	0·09	7	12·74	15·17	?	17·19	?
		Ramghar ...	.....	.....	0·07	2·02	.....	.....	.....	2	2·09	7·44	?	10·09	?
	Lohardugga ...	Lohardugga ...	1·00	1·40	0·20	1·00	0·75	.....	0·30	6	4·65	8·12	6·03	8·33	9·0
		Ranchi ...	0·64	0·37	0·09	2·11	0·36	0·06	.....	6	3·63	7·16	7·74	9·53	9·7
		Palamow ...	0·65	1 65	0·95	0 87	0·02	.....	.....	5	4·14	6·45	5·07	7·93	6·1
		Silli ...	.....	0·90	1·00	1·40	.....	.....	.....	3	3·30	6·30	?	9·50	?
		Balumat ...											?		?
		Jossenabad...	0·83	.....	2·21	0·30	... ..	.....	.....	3	3·34	5·92	?	8·92	?
		Garwah ...		0·22			0·02						?		?
	Singhbhoom .	Chyebassa ...	0·72	0·03	0·37	2·20	0·11	0·08	.....	6	3·51	6·46	7 04	9·55	10·2
		Chakradharpore.	0·20	0·10	0·50	0·40	0·30	0·20	0·10	7	1·80	3·40	?	3·55	?
		Ghatsilla ...	0·19	0·15	0·78	0·85	.... .	0·07	.....	5	2·04	8·29	?	11·37	?
		Baharagura...	0·36	0·40	0·86								?		?
	Manbhoom ...	Purulia ...	0·34	1·60	1·89	4·17	0·15	0·18	.....	6	8·33	11·03	7·77	14·55	9·1
		Gobindpore ...	0·47	0·53	4·07	5·57	0·05	.....	.....	5	10·69	11·66	6·82	12·03	8·0
		Raghunathpore.	1·26	0·20	5·11	5·41	.....	0·49	.....	5	12·47	13·03	?	15·77	?
		Barrabhoom	0·50	0·20	1·01	1·00	0·30	0·03	.....	6	3·04	6·62	?	10·85	?
		Jhalda ...	0·62	0·58	3·60	....	.....	.....	.....	3	4·80	8·90	?	10·56	?
		Chas ...	1·72	0·50	2·55	5·15	0·15	.....	.....	5	10·07	12·70	?	13·98	?

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 1st July* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 27TH OF JUNE 1890.

TOWARDS the end of last week the unsettled conditions resulting from the depression which had formed off the Orissa coast and thence moved in a north-north-westerly direction, had almost entirely disappeared, and at the beginning of the present week a very shallow low-pressure area remained in Lower Bengal. This depression gradually developed at first with an easterly motion, but afterwards it moved to the north-west, exerting an important influence on the weather conditions and rainfall distribution over Bengal up to the last two days of the week. Unusually heavy rainfall and very low temperature have been recorded in all districts except Orissa, where temperature has been very low, but rainfall has also been below the normal.

On the 21st pressure was less than a twentieth of an inch below the normal over almost the whole province, while at Jessore, Dacca, and Burrisal defect was slightly over that amount. This very shallow depression appears to be the commencement of the disturbed conditions, for on the 22nd a rapid fall was general in the eastern districts, the area of lowest pressure extending from the head of the Bay to Mymensingh and as far east as Silchar. The depression was therefore well to the east on Sunday, and over the greater part of Bengal winds were cyclonic. Heavy rain had begun to fall, Midnapore reporting eight inches, and all the southern stations from Calcutta eastwards from two to four inches. On the following day the depression had moved very nearly due west, the centre of lowest pressure and of the cyclonic circulation being between Berhampore and Burdwan. A very perfect cyclonic circulation obtained, with strong winds at the head of the Bay and in Lower Bengal. Rainfall was heavier than on the 22nd at all stations to the south of the centre, Jessore and Akyab reporting ten inches, Ranaegunge and Krishnagore eight inches, Burdwan seven inches, and several other stations from three to six inches. Wind velocity at Saugor Island and Gopalpur averaged more than 30 miles for the twenty-four hours previous to 8 a. m. on the 23rd, at which hour it was 36 miles at Saugor Island and 40 miles at Pooree. Up till 8 a m. on the 24th the stormy weather intensified, the depression moving in a north-westerly direction, but it would appear that it broke up, one portion being near Allahabad, and the other near Purneah and Bhagulpore when observations were taken on the 24th. Pressure at Purneah was 29·344 inches and at Bhagulpore 29·349 inches, defect at these two stations exceeding a quarter of an inch, while gradients were steep over the province and the Bay, the difference between Purneah and Tavoy exceeding six-tenths of an inch. The average wind velocity at Saugor Island rose to 42 miles an hour, and strong winds were blowing over the northern half of the Bay and at all inland stations except those in the extreme north. Falls of three and four inches of rain were common on this day in the west and south, but in North Behar and the greater part of North Bengal comparatively small amounts were reported. A very rapid rise followed, and by the 25th the depression near Purneah had completely filled up, excess pressure being general in all districts except the west of Behar. Heavy rain continued to fall till the 24th, and for the last two days ordinary monsoon conditions prevailed over the whole province, cloudy skies with moderate wind and light rain being reported from all except the Orissa stations.

Pressure—Changes have been roughly given above for those stations near which the area of lowest pressure passed. As the depression advanced, the fall of pressure was very rapid, but it recovered much more rapidly after the passage of the centre. Defect near the centre was about a quarter of an inch, and pressure changes at those stations varied from ·15 inch to ·33 inch, the latter occurring at Purneah on the 26th. As the distribution was below the normal during five days out of the seven, the means are below the normal in all districts except Orissa.

Temperature—Has been largely below the normal, the defect in the means for the week in the large divisions being—Chutia Nagpur 4·6°, South Behar 3·9°, South-West Bengal 3·2°, East Bengal and North Behar slightly over 2°, Orissa 2,° and North Bengal 0·5°. The area, therefore, over which the lowest temperatures have been recorded include the western districts from South Behar to Orissa.

Rainfall.—Unusually heavy rain fell during the early part of the week in all districts except Orissa, the average amounts in South-West Bengal, South Behar, and Chutia Nagpur being three times the normal, in North Behar and East Bengal twice the normal, and in North Bengal 1·5 inches in excess. Expressed as percentages of the normal for each district we get—South Behar 332, South-West Bengal 330, Chutia Nagpur 280, East Bengal 203, North Behar 192, North Bengal 128, and Orissa 74. The falls in South-West Bengal were generally over 6 inches, except in the Midnapore and Nuddea districts, and over 10 inches in Burdwan and parts of Khoolna and Jessore, the heaviest falls being 15 6 inches at Jessore and 16 inches at Bagirhat. In East Bengal the heaviest were 23 inches at Cox's Bazar and 13 inches at Chittagong and Fenny, but falls were generally between 5 and 8 inches. The lightest falls in North Bengal were 2 to 4 inches in Maldah and Dinagepore, but in the other districts 6 to 7 inches were very frequently reported. In Behar the same uniform distribution prevailed, and in Chutia Nagpur from 4 to 6 inches fell except in part of Manbhoom and Hazaribagh, where a few stations reported over 10 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 27th of June 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	93·4	75 7	87·2	70·4	83·3	—2·0	1·81	2·45	—0 64	4·3	3 3	+1·0	9·01	7·22	12·20	9·39
South-West Bengal ...	98·3	72·2	87·0	77·6	82·4	—3·2	8·36	2·53	+5·83	6·0	4·0	+2·0	13·55	9·23	17·66	11·99
East Bengal	89·6	72·5	84·5	76·4	80·5	—2·1	8·55	4·21	+4·34	6·0	·9	+1·1	15·63	16 70	22 20	21·13
North Bengal	92·5	71·1	87·6	76·9	82·2	—0·5	6·82	5·30	+1·52	6·2	4·7	+1·5	21 97	16·26	26·01	21·71
North Behar	92·7	74·4	88·0	77·4	82·7	—2·3	5·29	2·75	+2·54	5·9	3 4	+2·5	10·79	7·78	12·82	9·68
South Behar	93·3	73·3	87·5	77·5	82·5	—3·9	7·90	2·35	+5·55	6·4	3·3	+3·1	10·90	5 88	12·50	7·47
Chutia Nagpur	86·5*	70·2*	81·2*	72·5*	76 8*	—4·6*	6·26	2·51	13·75	5·6	4·0	+1·6	8·89	6·98	10·12	8·70

* Chyebassa not included.

Meteorological Office, Bengal ; C. Little,
The 1st July 1890. *Offg. Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 22nd to 28th June 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches
June 1890...	22nd ...	29·531	79 0	81·0	1·1	76·9	77·6	77·0	·921	76·7	98	4·00
,, ,, ...	23rd ...	·459	80·2	81·0	7·7	76 3	80·6	78·5	·949	77 6	91	1·15
,, ,, ...	24th ...	·568	82 6	88·0	10 8	77·2	82·6	79·5	·968	78·3	87	1·25
,, ,, ...	25th ...	·700	83·4	89 0	11·2	77·8	81·6	80·5	1·028	80·1	95	0·60
,, ,, ...	26th ...	·666	84·3	92 5	16·5	76·0	89·4	81·5	1·120	82·7	81	0·08
,, ,, ...	27th ...	·599	86·4	93 0	13·2	79·8	89·6	82·9	1·035	80·3	71	
,, ,, ...	28th ...	·586	85·8	91·5	11·5	80·0	88·6	83·5	1·080	81·6	80	..

		Inches.
The mean 10 A.M. pressure of the seven days		29·584
		°
The mean temperature of the seven days		83·1
The extreme variation of temperature		17·0
The maximum temperature		93·0
		%
The mean 10 A.M. relative humidity of the seven days		87
		Inches.
The total fall of rain from 22nd to 28th June 1890		7·38

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
Offg. Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 30th June 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 22nd to 28th June 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1890.		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
June	22nd	86·7	Nil	29·492	79·5	80·5	4·3	76·2	77·8	0·931	77·1	92	SW and WSW ..	218	1·28	Cloudy, o, g, d, p, ●, ≤.
,,	23rd	117·2	Nil	·412	80·5	83·4	7·3	76·1	78·1	·932	77·1	90	SW ...	315	1·36	Cloudy, o, g, d p, ⚡.
,,	24th	144·6	0·5	·531	82·8	86·7	10·4	76·3	79·7	·971	78·4	87	SW and SSW ...	338	0·26	Chiefly cloudy, o, g, d, p
,,	25th	121·5	Nil	·47	82·0	85·7	7·7	78·0	79·3	·967	78·2	88	SSW and variable ...	106	0·37	Chiefly cloudy, o, g, d, p.
,,	26th	151·8	7·7	·613	85·0	90·5	15·2	75·3	81·4	1·027	80·0	86	SSW ..	121	Nil	Partially cloudy, ⊕.
,,	27th	147·7	2·3	·510	85·6	90·2	10·5	79·7	81·4	1·021	79·9	83	SW by S and SW	80	,,	Chiefly cloudy, o.
,,	28th	156·3	6·6	·530	84·1	89·8	10·6	79·2	79·5	0·948	77·6	81	SE. calm and variable.	60	,,	Partially cloudy.

		Inches.
The mean pressure of the seven days		29·540
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·519
		Hours.
The total number of hours of bright sunshine		17·1
The maximum possible number of hours of sunshine		94·3
		°
The mean temperature of the seven days		82·8
The average temperature of the corresponding period for 24 years, S.-G.'s Office		84·5
The extreme variation of temperature		15·2
The maximum temperature		90·5
		Miles.
The highest velocity of the wind in one hour		24
		lbs.
The highest pressure of wind on one square foot	Approximately	6
		%
The mean relative humidity		87
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		84
		Inches.
The total fall of rain from 22nd to 28th June 1890		6·27
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		2·48
The total fall from 1st January to 28th June 1890		20·71
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		20·16

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the New Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86, formerly in the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV. and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, p passing temporary showers, ● continued rain, ⊕ solar corona, ≤ lightning, ⚡ strong wind.

N.B.—In the weekly report from 8th to 14th June 1890 read 29·605 for 29·65 as the mean of pressure of the 13th June 1890.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 30th June 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 14th June 1890.

Births.

The births registered during the week ending with Saturday, the 14th June 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 13·9 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 5·2 lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	25·2	16·0	17·9	18·3	18·2	19·1	13·9

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 24th May 1890.	31st May 1890.	7th June 1890.	14th June 1890.	Towns.	Weeks ending— 24th May 1890.	31st May 1890.	7th June 1890.	14th June 1890.
Burdwan	16·8	9·1	21·4	32·0	Naraingunj	20·7	16·6	24·8	12·4
Midnapore	15·5	18·6	18·6	13·9	Chittagong	7·0	16·4	11·7	9·4
Hughli and Chinsurah	21·3	37·7	26·3	19·7	Comillah	11·6	23·1	15·4	38·5
Serampore	21·6	21·6	23·6	23·6	Patna	9·4	3·6	6·2	7·5
Utterpara	9·4	18·9	..	18·9	Gya	24·6	19·1	19·8	16·4
Howrah	13·2	11·3	18·9	10·9	Arrah	9·6	27·5	15·2	8·4
Bali	14·0	14·0	7·0	10·5	Muzaffarpore	9·7	15·8	10·9	7·3
Kishnagar	3·8	7·6	15·1	15·1	Durbhanga	24·4	18·1	11·0	20·5
Ranaghat	24·0	6·0	6·0	12·0	Chupra	10·1	11·1	9·1	4·0
Santipore	17·5	14·0	10·5	17·5	Bhagulpore	13·6	2·5	10·9	12·7
Jessore	18·4	6·1	..	6·1	Monghyr	17·2	19·9	17·2	20·8
Rampore Beauleah	23·6	21·0	7·6	31·5	Purneah	20·8	3·5	17·3	13·9
Darjiling	14·8	7·4	22·2	..	Poori	8·4	14·7	18·9	21·0
Dacca	11·0	11·0	10·4	9·1					

It will be seen that last week the highest birth-rate was returned from Comillah (38·5) and the lowest from Chupra (4·). No births were registered during the week in Darjiling town.

Deaths.

The deaths registered during the week under review correspond to an annual rate of 23· per 1,000 of the population. The rate of the week is 1·2 lower than the average rate of the corresponding week of the past five years, and is higher than the rate of the corresponding week of any of the past five years except 1885 and 1886, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	33·0	23·2	20·9	21·4	22·4	24·2	23·0

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 24th May 1890.	31st May 1890.	7th June 1890.	17th June 1890.	Towns.	Weeks ending— 24th May 1890.	31st May 1890.	7th June 1890.	14th June 1890.
Burdwan	22·9	25·9	16·8	19·8	Naraingunj	41·4	8·3	24·8	24·8
Midnapore	17·0	29·4	20·1	15·5	Chittagong	7·0	11·7	30·6	11·7
Hughli and Chinsurah	27·9	27·9	32·8	29·5	Comillah	11·6	30·8	30·8	34·7
Serampore	27·5	29·4	13·7	25·6	Patna City	21·1	15·6	61·4	17·5
Utterpara	28·3	9·4	47·2	18·9	Gya	27·3	32·1	42·4	27·3
Howrah	10·6	15·2	17·6	20·6	Arrah	13·2	52·3	21·5	13·2
Bali	7·0	21·1	10·5	14·0	Muzaffarpore	23·1	38·9	26·8	28·0
Kishnagar	13·2	11·4	9·5	9·5	Durbhanga	37·7	33·0	28·7	33·0
Ranaghat	18·0	12·0	12·0	6·0	Chupra	4·0	15·1	11·1	12·1
Santipore	26·3	5·2	8·8	14·0	Bhagulpore	13·6	26·2	22·6	24·4
Jessore	..	6·1	49·0	12·2	Monghyr	23·5	19·9	26·2	18·1
Rampore Beauleah	23·6	26·3	23·6	23·6	Purneah	17·3	10·4	27·7	3·5
Darjiling	44·5	14·8	59·3	14·8	Poori	33·6	62·9	142·7	125·9
Dacca	26·6	16·2	30·5	24·0					

It will be seen that last week the highest mortality occurred in the town of Poori (125·9) and the lowest in Purneah (3·5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follow:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Poori ...	31·5	Poori ...	65·0	Poori ...	21·0
Durbhanga ...	13·3	Comillah ...	27·0	Gya ...	13·6
Mozufferpore ...	10·9			Burdwan ...	12·2
Patna City ...	5·5			Bhagulpore ...	10·8
Howrah ...	2·3				

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 3·5 per 1,000 from cholera, against the same ratio in the preceding week; 8·9 from fever, against 13·0; 3·0 from bowel-complaints, against 2·3; ·7 from injury, against ·5; 6·0 from other causes, against 6·3 in the preceding week, and ·8 from small-pox, against ·5. The mortality from small-pox is noticeably severe in Patna City, there being 7 deaths (2·3 per 1,000 of the population).

The mortality of last week according to *Sex*, *Class* and *Age* was as follow:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	23·6	Christians ...	29·9	Under 1 year ...	135·2
Females	22·3	Hindus ...	23·6	1 and under 5 years ...	32·5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	105	Mahomedans ...	21·4	5 „ 10 „ ...	10·8
				10 „ 15 „ ...	5·9
				15 „ 20 „ ...	16·7
				20 „ 30 „ ...	14·5
				30 „ 40 „ ...	21·4
				40 „ 50 „ ...	18·7
				50 „ 60 „ ...	21·5
				60 years and upwards ...	60·9

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 30th June 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 14th June 1890.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.															Sex.			
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.						Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan	Burdwan	18,063	16,017	34,080	11	10	21	16·8	15·2	32·0	110	..	1	3	1	...	8	13	..	1·5	4·6	1·5	...	12·2	19·8	16·8	10	3	29·8	9·7	297
Midnapore	Midnapore	16,927	16,033	33,560	4	5	9	6·2	7·7	13·9	80	1	...	4	1	...	4	10	1·5	...	6·2	1·5	...	6·2	15·5	20·1	8	2	24·6	6·3	390
Hughli	Hughli and Chinsurah.	15,858	15,529	31,387	5	7	12	8·2	11·5	19·7	71	.	1	10	1	...	6	18	..	1·6	16·4	1·6	...	9·8	29·5	32·8	12	6	39·1	13·7	200
Serampore	Serampore	13,559	12,937	26,496	6	6	12	11·8	11·8	23·6	100	..	.	5	2	...	5	12	...	...	9·8	3·9	...	9·8	23·6	13·7	8	4	30·7	16·1	191
	Utterpara	3,046	2,464	5,510	1	1	2	9·4	9·4	18·9	100	...	..	1	...	..	1	2	..	...	9·4	..	...	9·4	18·9	47·2	1	1	17·1	21·1	81
Howrah	Howrah	53,153	37,666	90,819	14	5	19	8·0	2·9	10·9	280	4	3	11	9	..	9	36	2·3	1·7	6·3	5·1	...	5·1	20·6	12·6	21	15	20·5	20·7	99
	Bali	7,836	6,979	14,815	1	2	3	3·5	7·0	10·5	50	...	...	3	1	...	..	4	...	...	10·5	3·5	...	...	14·0	10·5	3	1	19·9	7·5	265
Nuddea	Kishnagar	13,263	14,214	27,477	5	3	8	9·5	5·6	15·1	166	...	.	3	..	1	1	5	...	...	5·6	...	1·9	1·9	9·5	9·5	4	1	15·7	3·7	424
	Ranaghat	4,088	4,655	8,643	1	1	2	6·0	6·0	12·0	100	...		...	1	.	...	1	..	...	..	6·0	...	...	6·0	12·0	1	...	12·9	...	No female death.
	Santipore	13,708	15,979	29,687	8	2	10	11·0	3·5	17·5	400	..	1	1	3	3	...	8	..	1·7	1·7	5·3	5·3	...	14·0	8·8	6	2	22·8	6·5	351
Jessore	Jessore	4,856	3,605	8,195	...	1	1	.	6·1	6·1	No male birth.	...	.	2	..	...	...	2	...	...	12·2	...	...	...	19·2	49·0	1	1	10·8	14·2	76
Rajshahye	Rampore Beauleah	10,796	9,025	19,791	5	7	12	13·1	18·4	31·5	71	..	...	7	...	..	2	9	...	...	13·4	...	...	5·2	23·6	23·6	5	4	24·2	23·0	105
Darjiling	Darjiling	4,579	2,439	7,018	...	.	...	...	...	...	...	..	...	2	...	...	...	2	...	...	14·8	...	...	...	14·8	59·3	1	1	11·4	21·3	53
Dacca	Dacca	42,782	37,379	80,161	5	9	14	3·2	5·8	9·1	55	2	...	15	6	2	12	37	1·3	...	9·7	3·9	1·3	7·8	24·0	30·5	23	14	28·0	19·5	143
	Naraingunj	7,605	4,956	12,561	1	2	3	4·1	8·3	12·4	50	...	...	1	1	2	2	6	...	...	4·1	4·1	8·3	8·3	24·8	24·8	2	4	13·7	42·0	32
Chittagong	Chittagong	13,340	8,790	22,130	3	1	4	7·0	2·3	9·4	300	...	...	3	...	...	2	5	...	...	7·0	...	...	4·7	11·7	30·5	3	2	11·7	11·8	99
Tipperah	Comillah	8,153	5,353	13,506	5	5	10	19·2	13·2	38·5	100	...	..	7	...	1	1	9	..	...	27·0	...	3·8	3·8	34·7	30·8	4	5	25·5	48·6	52
Patna	Patna City	78,762	81,475	160,237	14	9	23	4·5	2·3	7·5	155	17	7	13	6	1	10	54	5·5	2·3	4·4	1·9	·3	3·2	17·5	21·4	28	26	18·5	16·6	111
Gya	Gya	38,290	37,831	76,121	11	13	24	7·5	8·9	16·4	84	2	...	17	...	1	20	40	1·4	...	11·6	...	·7	13·6	27·3	42·4	19	21	25·8	28·9	89
Shahabad	Arrah	20,960	22,505	43,465	3	4	7	3·6	4·8	8·4	75	1	1	6	2	1	...	11	1·2	1·2	·5	2·4	1·2	...	13·2	21·5	5	6	12·4	13·9	89
Mozufferpore	Mozufferpore	23,084	19,658	42,742	2	4	6	2·4	4·9	7·3	50	9	...	1	7	1	5	23	19·9	...	1·2	8·5	1·2	6·1	28·0	26·8	10	13	22·5	34·4	65
Durbhanga	Durbhanga	33,774	32,822	66,596	12	14	26	9·4	11·0	20·5	85	17		15	7	...	2	42	13·3	...	12·6	5·5	...	1·6	33·0	26·7	20	22	30·8	35·4	87
Saran	Chupra	25,116	26,554	51,670	3	1	4	5·0	1·0	4·0	300	...	2	2	3	1	4	12	...	2·0	2·0	3·0	1·0	4·0	12·1	11·1	9	3	18·6	5·9	315
Bhagulpore	Bhagulpore	29,640	27,813	57,453	9	5	14	8·1	4·5	12·7	180	3	..	12	...	...	12	27	2·7	...	10·8	...	..	10·8	24·4	22·6	16	11	28·1	20·6	136
Monghyr	Monghyr	28,154	29,366	57,520	14	9	23	12·7	8·1	20·8	155	...	...	5	8	...	7	20	...	...	4·5	7·2	...	6·3	18·1	25·2	11	9	20·3	15·9	127
Purneah	Purneah	8,463	6,553	15,016	2	2	4	6·9	6·9	13·9	100	..	..	1	...	...	...	1	...	...	3·5	...	...	...	3·5	27·7	1	...	6·1	...	No female death.
Poori	Poori	13,247	11,537	24,784	4	6	10	8·4	12·6	21·0	66	15	1	31	2	1	10	60	31·5	2·1	65·0	4·2	2·1	21·0	125·9	142·7	18	42	70·7	160·4	44
	Total	550,986	518,588	1,061,574	149	134	283	7·3	6·6	13·9	111	71	17	192	61	15	123	469	3·5	·8	8·9	3·0	·7	6·0	23·0	26·2	250	219	23·6	22·3	105

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of Population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Ratio per 1,000 of Population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	10	3	...	...	...	22·0	15·2	...	...	4	1	1	...	1	2	...	1	2	1	315·2	23·0	22·3	...	16·6	13·1	...	11·8	42·4	35·1
Midnapore ...	Midnapore ..	...	5	5	...	...	...	10·0	36·0	...	...	...	2	...	1	1	1	1	1	1	2	...	44·2	...	17·1	16·5	7·1	9·4	14·0	25·2	56·8
Hushli ...	Hughli and Chinsurah	...	14	4	...		.	28·8	33·7	...	...	4	...	2	...	2	1	1	...	1	4	259·0	...	36·0	...	41·4	33·5	9·1	...	20·0	100·3
Serampore ...	Serampore ...	...	9	3	...	...	..	18·5	166·3	...	...	1	4	...	...	...	1	2	2	...	2	73·2	115·2	...	...	...	9·7	20·9	30·8	...	74·8
	Utterpara	...	2	...	...	...	...	19·5	...	...	...	...	...	...	...	...	...	...	..	1	1	..	...	...	...	.	...	...	...	141·3	200·0
Howrah	Howrah	2	26	8	...	...	51·9	19·8	20·3	...	...	3	3	1	1	...	3	8	7	5	5	75·6	28·2	8·3	7·9	...	6·9	21·6	31·0	47·4	69·3
	Bali	..	3	1	...	...	..	11·6	39·7	...	...	...	2		...	.	...	1	..	...	1	...	104·1	...	..	...	...	18·6	...	...	71·0
Nuddea	Kishnagar ...	...	4	1	...	...	...	11·2	6·3	...	...	1	...	...	...	2	...	1	...	..	1	104·8	.	...	...	50·6	...	12·1	...	...	30·1
	Ranaghat	...	1	...	...	...	...	7·1	...	...	...	1	...	...	..	...	...	..	..	...	...	251·2	...	...	...	...	...	...	...	...	...
	Santipore	...	7	1	...	...	...	17·6	5·9	...	...	...	..	...	..	...	3	1	1	1	2	...	...	...	..	...	31·8	12·0	14·8	22·6	53·0
Jessore ...	Jessore	...	1	1	...	...	..	11·5	13·6	...	...	...	...	.	...	...	...	...	...	1	1	..	...	..	...	..	...	..	...	92·4	113·5
Rajshahye ...	Rampore Beauleah	...	6	3	...	...	..	31·5	15·9	...	...	1	..	2	...	1	2	1	...	..	2	138·1	..	30·0	...	31·3	25·0	14·1	...	...	105·0
Darjiling ...	Darjiling	...	2	...	...	...	...	22·6	...	...	...	...	1	...	...	...	...	1	...	...	...	...	80·9	..	...	...		56·3	...	...	...
Bacca ...	Dacca	...	16	21	...	...	...	20·6	27·8	...	...	4	3	...	...	3	3	11	4	1	8	149·6	21·2	...	...	21·4	10·2	45·1	24·8	11·0	74·6
	Naraingunj ..	...	3	3	...	..	...	24·7	25·3	...	...	1	1	..	1	...	1	...	1	...	1	180·4	45·6	...	45·8	...	19·5	...	37·3	...	73·8
Chittagong ...	Chittagong ..	1	..	4	...	..	65·3	...	13·6	...	...	1	2	...	...	...	1	...	1	...	...	92·4	52·9	...	...	...	11·2	..	23·0	...	...
Tipperah ...	Comillah	...	6	3	...	...	...	52·5	21·1	...	...	...	1	...	2	1	1	1	.	...	3	...	59·8	...	71·3	41·3	18·5	26·1	...	...	239·1
Patna	Patna City ...	.	36	18	...	...	..	15·7	22·9	...	...	7	8	5	1	4	9	6	2	3	9	84·5	28·5	17·4	3·6	18·6	16·2	13·4	5·5	11·0	33·9
Gya ...	Gya	...	33	7	...	...	...	25·6	22·6	...	...	9	8	1	...	1	4	3	2	3	6	261·5	65·5	29·7	..	9·9	14·1	12·3	10·6	23·7	60·6
Shahabad ...	Arrah	...	6	5	...	...	...	10·1	21·0	...	...	4	1	2	...	...	2	1	..	...	1	161·5	11·7	20·3	...	...	13·2	8·1	...	...	18·0
Mozufferpore ...	Mozufferpore ...	...	13	10	...	...	...	22·5	41·7	...	...	5	3	...	1	1	4	4	2	1	2	272·3	38·6	..	13·1	17·2	24·2	29·8	20·8	16·0	42·7
Durbhanga ...	Durbhanga ...	...	32	10	...	...	...	34·4	29·6	...	...	4	12	3	1	1	5	6	2	2	3	183·6	82·0	19·0	9·4	51·7	19·5	28·0	14·0	23·7	48·8
Saran	Chupra	...	9	3	...	...	...	11·8	13·1	...	...	6	2	...	...	...	..	...	1	...	3	221·1	20·1	...	...	...	...	...	8·6	...	45·9
Bhagulpore ...	Bhagulpore ...	...	22	5	...	...	...	25·8	15·1	...	...	3	3	1	2	1	5	5	1	2	4	130·7	28·8	8·9	16·5	12·4	23·8	28·0	8·3	24·1	57·7
Monghyr ...	Monghyr	1	17	2	...	..	219·5	19·8	8·3	...	...	6	...	..	1	2	3	3	2	1	2	210·1	...	...	9·1	27·5	15·1	17·5	16·3	13·1	29·0
Purneah ...	Purneah	..	1	..	...	...	...	5·7	...	...	...	...	...	1	...	...	...	..	...	...	...	...	.	32·0	...	...	...	...	...	...	...
Poori ...	Poori	...	69	..	...	...	...	127·2	...	...	...	1	1	1	...	2	5	15	15	7	13	171·6	25·9	23·2	...	55·9	49·2	192·5	234·7	163·2	374·3
	TOTAL ...	4	344	121	...	...	30·9	23·4	21·4	...	...	66	58	23	11	26	53	72	45	32	77	135·2	32·5	19·8	5·9	16·7	14·5	21·4	18·7	21·5	60·9

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 30th June 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of April 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED. Two years, all crops.	Five years, Kharif.	Annual leases. Kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot-weather.	Total.	GRAND TOTAL.	Rainfall, 1890-91. During month.	Rainfall, 1890-91. Up to end of month.	Rainfall, 1889-90. During month.	Rainfall, 1889-90. Up to end of month.	REMARKS.
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.	
ORISSA ...	Cuttack ...	Taldunda, 1st reach ...	1,342	.....	1	.....	.....	.....	14,011	.....	.....	.....	.....	.....	.....	14,011	.....	.....	0·15	0·15	
		Ditto, 2nd „ ...	593	71																	
		Machgong	776	28	28	.....	.....	.....	22,264	.....	.....	.....	.....	.....	.....	22,264	.....	.....	0·10	0·10	
		Kendrapara	1,067	387·71	260·26	91	93	..	18,450	.....	.....	.....	.....	.....	.....	18,450	.....	.....	0·08	0·08	
		Gobri	372·82	19·69	11·82	21	2	..	2,287	.....	.....	.....	.....	.....	.....	2,287	.....	.....	0·72	0·72	
		Do. extension	648	17·30	17·30	.....	.....	.....	1,200	.....	.....	.....	.....	.....	.....	1,200	.....	.....	No gauge fixed.		
		Patamoondi	885	80·45	63·15	.....	5	.....	15,000	.....	.....	.....	.....	.....	.....	15,000	.....	.....	.....	.....	
		High Level, Range I ...	608	97·12	14·56	270	560	.....	23,023	.....	.....	.....	.....	.....	.....	23,023	0·60	0·60	1·70	1·70	
	Balasore ...	Ditto, ditto II ..	727·16	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	20	2,412	.....	.....	.....	.....	
		Ditto, ditto III ...	727·16	..	.....	127	81	.....	34,727	.....	.....	127	.....	.....	127	34,727	0·45	0·45	0·30	0·30	
		Total ...	.....	.....	.....	521	478	.....	157,183	.....	2	127	.....	.....	147	157,330	.....	.....	.....	.....	
		Total of the corresponding period of last year ...	.....	.....	.....	.....	.....	.....	134,942	.....	2,398	150	.....	.....	3,698	137,190	.....	.....	.....	.....	
SOUTH-WESTERN.	Midnapore ...	Midnapore	1,411	49	.....	.....	.....	.....	62,504	.....	.....	.....	.....	.....	.....	62,504	0·51	0·51	1·00	1·00	18 Days discharging.
	Midnapore and Howrah ...	Panchkoorah	522	9	.....	.....	.....	.....	3,318	.....	.....	.....	.....	.....	.....	3,318	.....	.....	0·93	0·93	10 Days discharging.
		Tidal reaches, Ranges I-II	.....	.....	.....	.....	.....	.....	386	.....	.....	.....	.....	.....	.....	386	.....	.....	.....	.....	
		Total ...	.....	.....	.....	.....	.....	.....	66,208	.....	.....	.....	.....	.....	.....	66,208	.....	.....	.....	.....	
		Total of the corresponding period of last year ...	.....	.....	.....	.....	.....	.....	50,956	.....	.....	.....	.....	.....	.....	50,956	.....	.....	.....	.....	
SONE ...	Shahabad ...	Western Main	4,342	1,228	9	321	191	11,505	.....	.....	.....	201	.....	308	509	12,074	0·01	0·01	.....	.....	
		Buxar	1,226	194	93	2,095	3,491	51,052	.....	.....	.....	984	.....	1,960	2,944	53,996					
		Arrah	2,000	774	3·6	15,833	17,904	58,905	.....	.....	.....	2,109	.....	5,136	7,245	97,210	.....	.....	.....	.....	
	Patna and Gya.	Eastern main	1,460	182	170	8	13	1,132	.....	.....	.....	8	.....	.....	8	1,140	.....	.....	.....	.....	
		Patna				477	256	36,776	.....	.....	.....	390	.....	.....	390	37,166					
		Total ...	.....	.....	.....	18,040	21,894	199,680	.....	.....	.....	3,692	.....	7,404	11,096	201,786	.....	.....	.....	.....	
		Total of the corresponding period of last year ...	.....	.....	.....	.....	.....	154,931	.....	.....	.....	3,960	.....	10,029	13,989	168,920	.....	.....	.....	.....	
		Grand Total ...	.....	.....	.....	19,461	22,372	199,680	2,3,304	.....	20	3,819	.....	7,404	11,243	425,324	.....	.....	.....	.....	
		Grand Total of the corresponding period of last year	.....	.....	.....	.....	.....	154,931	155,037	.....	2,938	4,680	.....	10,029	17,057	357,025	.....	.....	.....	.....	

CALCUTTA,
The 1st July 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of April 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. / MACHGONG „ 4 „

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
49	1. Grain ...	104	478	582	21,808	582	21,808	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
...	4. Salt ...	.....	.....	.....	.....	.....	.....	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
74	7. Building materials	.....	1,143	1,143	1,479	525	677	
5	8. Miscellaneous ...	20	9	29	1,590	29	1,590	
3	9. Fuel ...	.....	25	25	105	25	105	
rafts	10. Timber ...	.....	374 No.	374 No.	670	371 No.	670	
„	11. Bamboos ...	.....	46,300 „	46,300 „	1,266	46,300 „	1,266	
131 & rafts.	12. Total ...	124 ...	1,655 & 46,674 No.	1,779 & 46,674 No.	26,918	1,161 & 46,674 No.	26,116	
83 & rafts.	13. Total of same month last year.	86	3,920 & 26,843 No.	4,006 & 26,843 No.	27,504	3,978 & 26,843 No.	21,454	

	Up.	Down.	Total.
Total number of boats plying cargo No.	19	112	131
Total number of boats plying passenger No.	1	3	4
Total empty boats „	137	18	155
Total registered tonnage, cargo, private Tons	250	1,693	1,943
Ditto ditto, Government Tons	.....	1,036	1,036
Total registered tonnage, passenger Tons	1	12	13
Ditto empty „	1,310	105	1,415
Run-mileage ...	39,652	64,358	104,010
Estimated value of cargo Rs.	9,048	15,934	24,982
Number of passengers ...	1	8	9
Rafts, bamboos No.	.....	46,300	46,300
„ bullahs „	.....	374	374
Estimated value of rafts Rs.	.....	1,936	1,936
Tollage on boats „	177-12-0	544-1-0	721-13-0
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts „	.....	84-9-2	84-9-2
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·33
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	806	6	2
Total tollage of same month last year ...	1,319	4	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	34	3	6
2. Tollage per month ...	806	6	2
3. Total ...	840	9	8
4. Amount credited in the accounts of the month ...	460	4	2
5. Balance due at the end of the month ...	380	5	6

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
360	1. Grain ...	1,189	3,159	4,348	2,65,830	4,348	2,65,830
3	2. Cotton ...	103	.....	103	28,000	103	28,000
11	3. Oilseeds ...	.....	274	274	38,530	274	38,530
25	4. Salt ...	48	360	408	9,850	408	9,850
6	5. Piece-goods ...	125	.....	125	34,000	125	34,000
1	6. Metal ...	11	.....	11	1,500	11	1,500
80	7. Building materials	19	499	518	2,710	207	1,670
87	8. Miscellaneous ...	1,041	343	1,384	3,19,890	1,384	3,19,890
3	9. Fuel ...	10	.....	10	30	10	30
44 rafts	10. Timber ...	.....	8,898 c. ft.	8,898 c. ft.	1,500	8,898 c. ft.	1,500
88 „	11. Bamboos ...	.....	50,869 „	50,869 „	4,570	50,869 „	4,570
576 & 132 rafts.	12. Total ...	2,546 &	4,635 & 59,767 c. ft.	7,181 & 59,767 c. ft.	7,06,410	6,870 & 59,767 c. ft.	7,05,370
492 & 58 rafts.	13. Total of same month last year.	1,884 & 9 No.	2,633 & 98,724 No.	4,517 & 98,733 No	4,23,780	3,972 & 98,733 No.	4,16,430

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	273	303	576
15. Total number of boats plying passenger No.	47	53	100
15½. Ditto empty boats „	313	307	620
16. Total registered tonnage, cargo, private Tons	3,882	6,393	10,275
16½. Ditto ditto, Government „	.....	521	521
17. Total registered tonnage, passenger Tons	1,950	2,386	4,336
17½. Ditto ditto empty boats „	2,633	1,502	4,135
18. Ton-mileage ...	3,60,052	456,155	8,16,207
19. Estimated value of cargo Rs.	3,93,600	3,06,740	7,00,340
20. Number of passengers ...	1,556	1,574	3,130
21. Rafts, bamboos C. ft.	.....	50,869	50,869
22. Do., timbers „	.....	8,898	8,898
23. Estimated value of rafts Rs.	.....	6,070	6,070
24. Tollage on boats „	3,135-5-6	4,361-5-11	7,496-11-5
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	216-5-7	216-5-7
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·8
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-10

	Rs.	A
Total tollage of month—24 + 25 + 26 ...	7,713	1
Total tollage of same month last year ...	6,011	5

Memorandum of Tollage.

	Rs.	A
1. Balance not recovered on the 1st of the month ...	5,010	7
2. Tollage per month ...	7,713	1
3. Total ...	12,723	8
4. Amount credited in the accounts of the month ...	7,612	13
5. Balance due at the end of the month ...	5,110	10

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
130	1. Grain ...	400	.....	400	24,350	400	24,350	
1	2. Cotton ...	.....	2	2	400	2	400	
6	3. Oilseeds ...	11	.....	11	880	11	880	
58	4. Salt ...	.....	149	149	12,480	149	12,480	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
57	7. Building materials	112	513	625	1,380	112	720	
129	8. Miscellaneous ...	353	51	404	26,000	404	26,000	
16	9. Fuel ...	144	.....	144	400	80	220	
rafts	10. Timber ...	4,386 c. ft.	.....	4,386 c. ft.	870	4,386 c. ft	870	
„	11. Bamboos ...	3,038 „	1,150 c. ft.	4,188 „	460	4,188 „	460	
97 & rafts.	12. Total ...	1,020 & 7,424 c.ft.	715 & 1,150 c. ft.	1,735 & 8,574 c. ft.	67,220	1,158 & 8,574 c ft	66,380	
67 & rafts.	13. Total of same month last year ...	989 & 1,618 No.	1,157 & 6,000 No.	2,146 & 7,610 No.	70,370	1,218 & 7,610 No.	70,110	

	Up.	Down.	Total.
Total number of boats plying cargo No.	285	112	397
Total number of boats plying passenger No.	25	25	50
Ditto empty boats „	96	258	354
Total registered tonnage, cargo, private Tons	2,263	471	2,734
Ditto ditto, Government „	135	1,050	1,185
Total registered tonnage, passenger Tons	476	537	1,013
Ditto empty boats „	815	1,182	1,997
Ton-mileage ...	88,217	60,796	149,013
Estimated value of cargo Rs.	38,150	27,740	65,890
Number of passengers ...	486	571	1,057
Rafts, bamboos C. ft.	3,038	1,150	4,188
Do., timbers „	4,386	.....	4,386
Estimated value of rafts Rs.	1,230	100	1,330
Tollage on boats „	714-14-6	476-2-9	1,191-1-3
Compounded tollage on boats Rs.	... ..	.....	.....
Tollage on rafts „	38-6-9	3-13-0	42-3-9
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·5
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-7-11

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,233	5	0
Total tollage of same month last year	1,020	9	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	166	12	7
2. Tollage per month ...	1,233	5	0
3. Total ...	1,400	1	7
4. Amount credited in the accounts of the month	758	2	7
5. Balance due at the end of the month ...	641	15.	0

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
93	1. Grain ...	250	10	260	14,346	260	14,346
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
11	3. Oilseeds ...	3	11½	14½	1,236	14½	1,236
12	4. Salt ...	.....	50⅓	50⅓	7,070	50⅓	7,070
13	5. Piece-goods ...	.....	15⅓	15⅓	4,340	15⅓	4,340
...	6. Metal ...	.....	.....	.....	.....	.....	.....
98	7. Building materials	.....	838	838	501	.....	.....
11	8. Miscellaneous ...	4	34⅓	38⅓	3,487	38⅓	3,487
10	9. Fuel ...	.....	57½	57½	154	57½	154
7 rafts	10. Timber 202 No.	.....	1,212 c. ft.	1,212 c. ft.	606	1,212 c. ft.	606
29 „	11. Bamboos ...	.....	20,420 No.	20,420 No.	612	20,420 No.	612
248 & 36 rafts.	12. Total ...	257	1,017½ 1,212 c. ft. 20,420 No.	1,274½ 1,212 c. ft. 20,420 No.	32,352	436⅓ 1,212 c. ft. 20,420 No.	31,851
327 & 112 rafts.	13. Total of same month last year.	601½	1,347 & 11,694 c. ft. 25,625 No.	1,948⅓ & 11,694 c. ft. 25,625 No.	42,688	658⅓ & 1,698 c. ft. 25,625 No.	36,630

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	88	160	248
15. Total number of boats plying passenger No.	.....	.....	.....
15½. Ditto empty boats „	162	65	227
16. Total registered tonnage, cargo and boat Tons	514	359	873
16½. Ditto Govt. ditto „	.....	1,676	1,676
17. Total registered tonnage, passenger Tons	.....	.....	.....
17½. Ditto empty ditto „	913	176	1,089
18. Ton-mileage	18,406	23,580	41,986
19. Estimated value of cargo Rs.	14,197	16,937	31,134
20. Number of passengers ...	542	345	887
21. Rafts, bamboos No.	.....	20,420	20,420
22. Do., bullahs C. ft.	.....	1,212	1,212
23. Estimated value of rafts Rs.	.....	1,218	1,218
24. Tollage on boats „	164-11-3	370-10-9	535-6-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	20-9-6	20-9-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·44
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-12-9

	Rs. A.
Total tollage of month—24 + 25 + 26 ...	555 15
Total tollage of same month last year ...	837 3

Memorandum of Tollage.

	Rs. A.
1. Balance not recovered on the 1st of the month ...	C.E. 0 5
2. Tollage per month ...	555 15
3. Total ...	555 10
4. Amount credited in the accounts of the month ...	555 10
5. Balance due at the end of the month ...	.....

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

er of ts fts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
71	1. Grain ...	202	.....	202	11,395	202	11,395	
.	2. Cotton ...	.....	.....	.....	.....	.....	.....	
.	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
2	4. Salt ...	2½	2½	5	450	5	450	
.	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.	6. Metal ...	.....	.....	.....	.....	.....	.....	
75	7. Building materials		577⅓	577⅓	1,510	.....	.....	
4	8. Miscellaneous ...	.....	9½	9½	1,318	9½	1,318	
.	9. Fuel ...	.....	.....	.....	...	.....	.....	
.	10. Timber ...	.....	.....	.....	.....	...	.....	
fts	11. Bamboos ...	800	1,750 No.	2,550 No.	120	2,550 No.	120	
& fts.	12. Total ...	204½ 800	589½ 1,750 No.	794 2,550 No.	14,793	216½ 2,550 No.	13,283	
& fts.	13. Total of same month last year.	419	317⅓ 100 No.	736½ 100 No.	26,024	455 100 No.	24,411	

	Up.	Down.	Total.
Total number of boats plying cargo No.	72	80	152
Total number of boats plying passenger No.	7	4	11
Ditto empty ditto ,,	78	61	139
Total registered tonnage, cargo and boats Tons	409	24	433
Ditto of Govt. do. ,,	.....	1,155	1,155
Total registered tonnage, passenger Tons	49	27	76
Ditto empty ditto ,,	470	151	621
Ton-mileage ...	7,645	12,052	19,697
Estimated value of cargo Rs.	11,547	3,126	14,673
Number of passengers ...	311	266	577
Rafts, bamboos No.	800	1,750	2,550
Do., bullahs C. ft.	.....	.....	.....
Estimated value of rafts Rs.	40	80	120
Tollage on boats ,,	139-0-3	229-0-6	368-0-9
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts ,,	0-8-0	1-1-6	1-9-6
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·58
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	369 10 3
Total tollage of same month last year	407 7 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	C.E. 0 10 0
2. Tollage per month ...	369 10 3
3. Total ...	369 0 3
4. Amount credited in the accounts of the month ...	369 10 3
5. Balance due at the end of the month ...	C.E. 0 10 0

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
8	1. Grain ...	.....	3	3	160	3	160
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
...	4. Salt ...	.....	.....	.....	.....	.....	.....
2	5. Piece-goods ...	.....	1	1	80	1	80
...	6. Metal ...	.....	.....	.....	.....	.....	.....
...	7. Building materials	.....	.....	.....	.....	.....	.....
2	8. Miscellaneous ...	.....	5	5	560	5	560
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
4 rafts	10. Timber ...	.....	678 c. ft.	678 c. ft.	51	678 c. ft.	51
26 „	11. Bamboos ...	.....	14,434 No.	14,434 No.	577	14,434 No.	577
12 & 30 rafts.	12. Total ...	.....	9 678 c. ft. 14,434 No.	9 678 c. ft. 14,434 No.	1,428	9 678 c. ft. 14,434 No.	1,428
31 & 38 rafts.	13. Total of same month last year.	2	25 1,344 c. ft. 7,200 No.	27 1,344 c. ft. 7,200 No.	1,975	27 1,344 c.ft 7,200 No.	1,975

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	... ..	12	12
15. Total number of boats plying passenger No.	1	1	2
15½. Ditto empty ditto „	10	1	11
16. Total registered tonnage, cargo and boats Tons	. .	18	18
16½. Ditto of Govt. do. „	.....	.....	... ..
17. Total registered tonnage, passenger Tons	6	6	12
17½. Ditto empty ditto „	8	⅓	8⅓
18. Ton-mileage ...	36	186	222
19. Estimated value of cargo Rs.	....	800	800
20. Number of passengers ...	67	57½	124½
21. Rafts, bamboos No.	.....	14,434	14,434
22. Do., bullahs C. ft.	.....	678	678
23. Estimated value of rafts Rs.	.....	628	628
24. Tollage on boats „	1-4-6	2-15-6	4-4-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	3-3-10	3-3-10
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·67
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-2-3

	Rs.	A.
Total tollage of month—24 + 25 + 26 ...	7	7
Total tollage of same month last year ..	14	12

Memorandum of Tollage.

	Rs.	A.
1. Balance not recovered on the 1st of the month ..	.....	
2. Tollage per month ...	7	7
3. Total ...	7	7
4. Amount credited in the accounts of the month ...	7	3
5. Balance due at the end of the month ...	0	4

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

r of s.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
3	1. Grain ...	4,266	639	4,905	2,68,318	4,905	2,68,318	The Canal from Mohonpore to Ballichuck closed from the 20th April to the 10th May 1890 and the Coleebania Lock closed to traffic from the 27th April.
1	2. Cotton ...	.....	8	8	3,792	8	3,792	
5	3. Oilseeds ...	607	129	736	74,234	736	74,234	
3	4. Salt ...	.....	1,307	1,307	1,31,324	1,307	1,31,324	
)	5. Piece-goods ...	1	77	78	2,22,400	78	2 22,400	
7	6. Metal ...	131	192	323	2,58,715	323	2,58,715	
)	7. Building materials	411	9	420	1,965	420	1,965	
1	8. Miscellaneous ...	1,298	796	2,094	3,29,853	2,094	3,29,853	
1	9. Fuel ...	141	255	396	7,229	396	7,229	
fts	10. Timber ...	8,783 c. ft.	1,285 c. ft.	10,068 c. ft.	7,041	10,068 c. ft.	7,041	
,	11. Bamboos ...	50 „	50 „	100 „	21	100 „	21	
& ts.	12. Total ...	6,855 & 8,833 c. ft.	3,412 & 1,335 c. ft.	10,267 & 10,168 c. ft.	13,04,892	10,267 & 10,168 c. ft.	13,04,892	
& ts.	13. Total of same month last year.	8,954 & 17,597 c. ft.	2,848 & 162 c. ft.	11,802 & 17,759 c. ft.	9,53,224	11,802 & 17,759 c. ft.	9,53,224	

	Up.	Down.	Total.
Total number of boats plying cargo No.	1,252	469	1,721
Total number of boats plying passenger No.	441	640	1,081
Ditto empty „	342	815	1,157
Total registered tonnage, cargo Tons	18,147	7,975	26,122
Total registered tonnage, passenger Tons	3,005	3,129	6,134
Ditto empty „	1,669	4,241	5,910
Ton-mileage	443,793	243,372	687,165
Estimated value of cargo Rs.	5,40,640	7,57,190	12,97,830
Number of passengers ...	3,408	9,460	12,868
Rafts, bamboos C. ft.	50	50	100
Do., bullahs „	8,783	1,285	10,068
Estimated value of rafts Rs.	4,354	2,708	7,062
Tollage on boats „	6,995-4-9	3,707-12-9	10,703-1-6
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts „	185-2-3	16-10-6	201-12-9
Total tollage on boats per ton-mile Pie	.....	.....	0-0-2·9
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-15-9

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	10,904	14	3
Total tollage of same month last year ...	13,235	10	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	4,613	12	1
2. Tollage per month ...	10,904	14	3
3. Total ...	15,518	10	4
4. Amount paid into treasury during the month ...	8,787	8	6
*	7	12	0
	8,779	12	6
5. Balance due at the end of the month ...	6,738	13	10

* Transferred to Balance.

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
185	1. Grain ...	1,268	17	1,285	44,331	1,285	44,331	
...	2. Cotton ...	...	...	.....	.....	.....	...	
3	3. Oilseeds ...	3	1	4	500	4	500	
16	4. Salt ...	... ..	106	106	10,407	106	10,407	
...	5. Piece-goods ...	.....	.....	.....	.....	... ...	.....	
...	6. Metal ...	... ..	.....	.....	.....	... .	... ..	
3	7. Building materials	...	9	9	63	9	63	
286	8. Miscellaneous ...	2	182	184	29,631	184	29,631	
11	9. Fuel ...	5	131	136	945	65	445	
2 rafts	10. Timber ...	.....	54 c. ft.	54 c. ft.	42	54 c ft.	42	
4 ,,	11. Bamboos ...	25 c. ft.	125 ,,	150 ,,	16	150 ,,	16	
504 & 6 rafts.	12. Total ..	1,278 & 25	446 & 179 c. ft.	1,724 & 204 c. ft.	85,935	1,653 & 204 c. ft	85,435	
1,176 & 6 rafts.	13. Total of same month last year.	4,818 & 1,200 c. ft.	1,127 & 179 c. ft.	5,945 & 1,379 c. ft.	3,18,237	5,884 & 1,379 c. ft	3,11,787	

		Up.	Down.	Total.
14.	Total number of boats plying cargo No.	209	295	504
15.	Total number of boats plying passenger No.	16	14	30
16.	Total registered tonnage, cargo Tons	2,516	2,159	4,675
17.	Total registered tonnage, passenger Tons	361	387	748
18.	Ton-mileage	51,402	45,702	97,104
19.	Estimated value of cargo Rs.	81,024	4 853	85,877
20.	Number of passengers ...	1,060	1,290	2,350
21.	Rafts, bamboos C. ft.	25	125	150
22.	Do., bullahs ,,	.....	54	54
23.	Estimated value of rafts Rs.	3	55	58
24.	Tollage on boats ,,	1,624-8-0	74-0-0	1,698-8-0
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts ,,	0-1-0	1-15-0	2-0-0
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-15-8

	Rs.	A.
Total tollage of month—24 + 25 + 26 ...	1,700	8
Total tollage of same month last year	5,601	0

Memorandum of Tollage.

	Rs.	A.
1. Balance not recovered on the 1st of the month ...	631	5
2. Tollage per month ...	1,700	8
3 Total ...	2,331	13
4. Amount paid into treasury during the month ...	1,178	4
5. Balance due at the end of the month	1,153	8

* Difference of Rs. 46-11-0 with that of previous month adjusted in the supplementary accounts for March 1890.

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES.

of	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
9	1. Grain ...	.....	216	216	12,960	216	12,960	
	2. Cotton ...	.....	.....	.....	... ..	...	.....	
9	3. Oilseeds ...	.....	1 067	1,067	98,520	1,067	98,520	
8	4. Salt ...	149	.....	149	6,615	149	6,615	
6	5. Piece-goods ...	114	.. ..	114	65,009	114	65,009	
	6. Metal ...	7	.....	7	2.354	7	2,354	
6	7. Building materials	162	18	180	4,071	71	1,892	
2	8. Miscellaneous ...	126	298	424	8,21,100	424	8,21,100	
3	9. Fuel { By boat	2	11	13	168	13	168	
	„ afts	.....	74	74	250	74	250	
1	10. Timber { By boat	3	.....	3	100	3	100	
	„ rafts	.....	869	869	10,367	869	10,367	
9	11. Bamboos { By boat	149	.....	149	3,874	149	3,874	
	„ rafts	.....	1,497	1,497	18,392	1,497	18,392	
3	12. Total ...	712	4,050	4.762	10,43,780	4,653	10,41,601	
7	13. Total of same month last year ...	102	985	1,087	53,367	1,083	53,317	

	Up.	Down.	Total.
tal number of boats plying cargo No.	109	153	262
al number of boats plying passenger No.	5	8	13
itto empty boats „	150	14	164
al registered tonnage, argo Tons	1,463	2,715	4,178
al registered tonnage, assenger Tons	171	223	394
itto empty boats „	632	54	686
-mileage ...	1,09,570	297,643	4,07,213
imated value of cargo Rs.	91,403	923,368	10,14,771
mber of passengers ...	448	572	1,020
ts, bamboos C. ft.	.....	224,606	2,24,606
„ bullahs „	.....	70,731	70,731
imated value of rafts Rs.	.....	29,009	29,009
lage on boats „	864-14-9	1,816-13-0	2,681-11-9
pounded tollage on ats Rs.	75-0-0	75-0-0	150-0-0
age on rafts „	.....	993-9-6	993-9-6
l tollage on boats per on-mile Rs.	.....	.....	0-0-1·3
l tollage on rafts per 00 cubic feet Rs.	.....	.....	0-5-4

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	3,825 5 3
Total tollage of same month last year ...	751 3 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	216 7 7
2. Tollage per month ...	3,825 5 3
3. Total ...	4,041 12 10
4. Amount credited in the accounts of the month	3,402 7 9
5. Balance due at the end of the month ...	639 5 1

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
8	1. Grain ...	.....	40	40	2,094	40	2,094
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
43	3. Oilseeds ...	.....	707	707	77,900	707	77,900
26	4. Salt ...	326	.....	326	49,581	326	49,581
4	5. Piece-goods ...	21	.....	21	44,250	21	44,250
...	6. Metal ...	1	.....	1	1,200	1	1,200
4	7. Building materials	5	13	18	110	18	110
98	8. Miscellaneous ...	66	732	798	2,52,430	775	2,51,902
7	9. Fuel ...	95	.....	95	929	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
	11. Bullahs ...	.....	1,026	1,026	7,326	1,026	7,326
Rafts	11. Bamboos ...	.....	597	597	6,620	597	6,620
	11. Firewood ...	.....	10	10	25	10	25
190	12. Total ...	514	3,125	3,639	4,42,465	3,521	4,41,008
175	13. Total of same month last year.	533	3,792	4,325	4,07,364	4,164	4,00,738

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	50	140	190
15. Total number of boats plying passenger No.	5	4	9
15½. Total number of empty boats No.	130	2	132
16. Total registered tonnage, cargo Tons	960	2,294	3,254
17. Total registered tonnage, passenger Tons	103	75	178
17½. Total registered tonnage, empty Tons	477	9	486
18. Ton-mileage ...	68,524	113,091	181,615
19. Estimated value of cargo Rs.	99,778	3,28,716	4,28,494
20. Number of passengers ...	1,275	916	2,191
21. Rafts, bamboos C.ft.	.....	89,570	89,570
22. Do., bullahs „	.....	76,936	76,936
22½ Do., firewood „	.....	800	800
23. Estimated value of rafts Rs.	.....	13,971	13,971
24. Tollage on boats „	320-15-3	913-14-9	1,234-14-0
25. Compounded tollage on boats Rs.	228-0-0	228-0-0	456-0-0
26. Tollage on rafts „	.....	386-7-3	386-7-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·78
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-8

	Rs.	A.
Total tollage of month—24 + 25 + 26 ...	2,077	5
Total tollage of same month last year ...	2,261	5

Memorandum of Tollage.

	Rs.	A.
1. Balance not recovered on the 1st of the month	228	12
2. Tollage per month ...	2,077	5
3. Total ...	2,306	2
4. Amount credited in the accounts of the month	2,166	0
5. Balance due at the end of the month ...	140	1

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
2	1. Grain ...	1	19	20	1,202	20	1,202	
..	2. Cotton ...	2	.....	2	3,200	2	3,200	
36	3. Oilseeds ...	.....	682	682	84,380	682	84,380	
...	4. Salt ...	5	.....	5	656	5	656	
...	5. Piece-goods ...	2	.....	2	7,120	2	7,120	
..	6. Metal ...	.....	.....	.....	.....	.....	.....	
8	7. Building materials	47	40	87	555	18	65	
21	8. Miscellaneous ...	83	181	264	37,529	261	37,504	
43	9. Fuel ...	.....	456	456	5,470	456	5,470	
ts	10. Timber ...	.....	239	239	1,631	239	1,631	
	11. Bamboos ...	.....	233	233	2,600	233	2,600	
110	12. Total ...	140	1,850	1,990	1,44,343	1,918	1,43,828	
66	13. Total of same month last year.	410	1,730	2,140	73,445	1,771	69,980	

	Up.	Down.	Total.
Total number of boats plying cargo No.	12	98	110
Total number of boats plying passenger No.	10	9	19
Ditto empty boats „	60	15	75
Total registered tonnage, cargo Tons	179	2,292	2,471
Total registered tonnage, passenger Tons	270	243	513
Ditto empty „	207	59	266
Ton-mileage ...	15,088	57,728	72,816
Estimated value of cargo Rs.	19,762	1,20,350	1,40,112
Number of passengers ...	740	597	1,337
Rafts, bamboos C. ft.	.....	34,930	34,930
Do., bullahs „	.....	17,989	17,989
Estimated value of rafts Rs.	.....	4,231	4,231
Tollage on boats „	114-14-0	673-13-6	788-11-6
Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0
Tollage on rafts „	.....	194-3-0	194-3-0
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·6
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-10

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,196 14 6
Total tollage of same month last year ...	1,073 6 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	.....
2. Tollage per month ...	1,196 14 6
3. Total ...	1,196 14 6
4. Amount credited in the accounts of the month ...	1,144 6 6
5. Balance due at the end of the month ...	52 8 0

ABSTRACT FOR THE MONTH OF APRIL 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1890-91.		Traffic, 1889-90.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	806 6 2	806 6 2	1,319 4 3	1,319 4 3	
Kendrapara Canal System	7,713 1 0	7,713 1 0	6,011 5 0	6,011 5 0	
High Level, Range I ...	1,233 5 0	1,233 5 0	1,020 9 0	1,020 9 0	
Ditto „ II ...	555 15 6	555 15 6	837 3 9	837 3 9	
Ditto „ III ...	369 10 3	369 10 3	407 7 9	407 7 9	
Jajepore Canal ...	7 7 10	7 7 10	14 12 4	14 12 4	
Total Orissa Circle ...	10,685 13 9	10,685 13 9	9,610 10 1	9,610 10 1	
South-Western Circle.					
Midnapore Canal ...	10,904 14 3	10,904 14 3	13,235 10 6	13,235 10 6	
Hidgellee Tidal Canal ...	1,700 8 0	1,700 8 0	5,601 0 3	5,601 0 3	
Total South-Western Circle	12,605 6 3	12,605 6 3	18,836 10 9	18,836 10 9	
Sone Circle.					
Patna Canal System ...	3,825 5 3	3,825 5 3	751 3 6	751 3 6	
Arrah ditto ...	2,077 5 3	2,077 5 3	2,261 5 6	2,261 5 6	
Buxar ditto ...	1,196 14 6	1,196 14 6	1,073 6 3	1,073 6 3	
Total Sone Circle ...	7,099 9 0	7,099 9 0	4,085 15 3	4,085 15 3	
Grand Total ...	30,390 13 0	30,390 13 0	32,533 4 1	32,533 4 1	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1890-91.						Traffic, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipt.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A.
High Level	1,307	2,816	1,443 14 5	1,307	2,816	1,443 14 5	855	2,380	1,081 0 10	855	2,380	1,081 0
Total Orissa Circle ...	1,307	2,816	1,443 14 5	1,307	2,816	1,443 14 5	855	2,380	1,081 0 10	855	2,380	1,081 0

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1890-91.		Earnings, 1889-90.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	12,129 12 2	12,129 12 2	10,691 10 11	10,691 10 11	
Midnapore Canal ...	10,904 14 3	10,904 14 3	13,235 10 6	13,235 10 6	
Hidgellee Tidal Canal ...	1,700 8 0	1,700 8 0	5,601 0 3	5,601 0 3	
Sone Canals ...	7,099 9 0	7,099 9 0	4,085 15 3	4,085 15 3	
Total ...	31,834 11 5	31,834 11 5	33,614 4 11	33,614 4 11	

Calcutta,
The 1st July 1890.

G. A. G. Shawe,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of April 1890.

Date.	River Ganges.																River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beauleah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
	86		134	48	90		177	87	287	110	381	94	471	90	591	120						
	From Allahabad ...		From Allahabad ...	From Mirzapur ...	From Benares		From Benares	From Buxar ...	From Benares	From Dinapur	From Benares	From Monghyr	From Benares	From Sahebgungo ...	From Benares	From Rampore Beauleah ...						
	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
	Below zero.		Below zero.						Below zero.		Below zero.		Below zero.									
1st	0·08	206·14	0·98	195·82	1·33	170·38	6·05	140·23	4·11	97·74	3·33	64·47	1·58	40·42	2·00	10·94	1·67	35·41	1·71	6·01	2·00	150·76
2nd	0·08	206·14	1·00	195·80	1·33	170·38	6·00	140·23	4·17	97·68	3·33	64·67	1·61	40·39	2·17	11·11	1·67	35·41	1·75	6·05	1·80	150·56
3rd	0·08	206·14	1·02	195·78	1·33	170·38	6·00	140·23	4·21	97·64	3·42	64·58	1·65	40·35	2·33	11·27	1·63	35·37	2·00	6·30	1·40	150·16
4th	0·08	206·14	1·04	195·76	1·33	170·38	5·95	140·18	4·25	97·60	3·42	64·58	1·67	40·33	2·50	11·44	1·63	35·37	2·33	6·68	1·00	149·76
5th	0·08	206·14	1·06	195·74	1·25	170·30	5·95	140·18	4·27	97·58	3·42	64·58	1·69	40·31	2·58	11·52	1·63	35·37	2·63	6·93	0·40	149·16
6th	0·08	206·14	1·08	195·72	1·25	170·30	5·95	140·18	4·29	97·56	3·42	64·58	1·71	40·29	2·67	11·61	1·63	35·37	3·17	7·47	0·60	149·36
7th	0·08	206·14	1·11	195·69	1·25	170·30	5·95	140·18	4·33	97·52	3·33	64·67	1·73	40·27	2·75	11·69	1·63	35·37	3·33	7·63	0·80	149·56
8th	0·17	206·05	1·13	195·67	1·17	170·22	5·95	140·18	4·31	97·49	3·33	64·67	1·73	40·27	2·83	11·77	1·58	35·32	3·00	7·30	0·50	149·26
9th	0·17	206·05	1·15	195·65	1·17	170·22	5·95	140·18	4·38	97·47	3·42	64·58	1·73	40·27	2·83	11·77	1·58	35·32	3·25	7·55	0·80	149·56
10th	0·17	206·05	1·17	195·63	1·17	170·22	5·95	140·18	4·42	97·43	3·42	64·58	1·75	40·25	2·83	11·77	1·58	35·32	3·08	7·38	1·00	149·76
11th	0·17	206·05	1·19	195·61	1·17	170·22	5·95	140·18	4·46	97·39	3·50	64·50	1·75	40·25	2·83	11·77	1·58	35·32	3·00	7·30	0·90	149·66
12th	0·17	206·05	1·21	195·59	1·17	170·22	5·90	140·13	4·48	97·37	3·50	64·50	1·75	40·25	2·75	11·69	1·58	35·32	2·83	7·15	1·00	149·76
13th	0·17	206·05	1·23	195·57	1·08	170·13	5·90	140·13	4·50	97·35	3·50	64·50	1·78	40·22	2·67	11·61	1·58	35·32	2·71	7·01	1·40	150·16
14th	0·17	206·05	1·25	195·55	1·08	170·13	5·90	140·13	4·54	97·31	3·58	64·42	1·78	40·22	2·58	11·52	1·54	35·28	2·67	6·97	2·00	150·76
15th	0·17	206·05	1·27	195·53	1·08	170·13	5·90	140·13	4·58	97·27	3·58	64·42	1·78	40·22	2·50	11·44	1·54	35·28	2·54	6·84	3·40	152·16
16th	0·17	206·05	1·29	195·51	1·00	170·05	5·90	140·13	4·63	97·22	3·67	64·31	1·75	40·25	2·67	11·61	1·54	35·28	2·42	6·72	5·76	154·52
17th	0·17	206·05	1·31	195·49	1·00	170·05	5·90	140·13	4·67	97·18	3·67	64·33	1·75	40·25	3·00	11·94	1·54	35·28	2·58	6·88	7·70	156·46
18th	0·25	205·97	1·33	195·47	0·92	169·97	5·90	140·13	4·69	97·16	3·58	64·42	1·71	40·29	3·50	12·44	1·54	35·28	3·33	7·63	10·00	158·76
19th	0·25	205·97	1·36	195·44	0·92	169·97	5·90	140·13	4·69	97·16	3·58	64·42	1·69	40·31	3·75	12·69	1·54	35·28	3·25	7·55	10·40	159·16
20th	0·25	205·97	1·38	195·42	0·83	169·88	6·00	140·23	4·75	97·10	3·58	64·42	1·69	40·31	4·58	13·52	1·58	35·32	3·42	7·72	11·00	159·76
21st	0·25	205·97	1·40	195·40	0·83	169·88	6·00	140·23	4·77	97·08	3·58	64·42	1·71	40·29	5·42	14·36	1·63	35·37	3·67	7·97	9·50	158·26
22nd	0·25	205·97	1·42	195·38	0·83	169·88	6·00	140·23	4·79	97·06	3·67	64·33	1·73	40·27	6·17	15 11	1·67	35·41	3·42	7·72	6·90	155·66
23rd	0·25	205·97	1·44	195·36	0·75	169·80	6·00	140·23	4·83	97·02	3·67	64·33	1·75	40·25	6·50	15·44	1·67	35 41	3·25	7·55	5·80	154·56
24th	0·25	205·97	1·46	195·34	0·75	169·80	6·10	140·33	4·86	96·99	3·67	64·33	1·75	40·25	6·50	15·44	1·63	35·37	3·08	7·38	5 90	154·66
25th	0·25	205·97	1·48	195·32	0·67	169·72	6·10	140·33	4·90	96·95	3·67	64·33	1·75	40·25	6·42	15·36	1·63	35·37	2·92	7·22	6·20	154·96
26th	0·25	205·97	1·50	195·30	0·67	169·72	6·10	140·33	4·93	96·93	3·50	64·50	1·77	40·23	5·92	14·86	1·58	35·32	2·46	6·76	5·40	154·16
27th	0·25	205·97	1·52	195·28	0·67	169·72	6·10	140·33	4·94	96·91	3·42	64·58	1·77	40·23	5·42	14·36	1·58	35·32	2·08	6·38	5·50	154·26
28th	0·33	205·89	1·54	195·26	0·58	169·63	6·10	140·33	4·96	96·89	3·42	64·58	1·73	40·27	5·00	13·94	1·58	35·32	1·83	6·13	5·40	154·16
29th	0·33	205·89	1·56	195·24	0·58	169·63	6·10	140·33	4·96	96·89	3·08	64·92	1·69	40·31	4·75	13·69	1·58	35·32	2·00	6·30	5·40	154·16
30th	0·33	205·89	1·58	195·22	0·58	169·63	6·20	140·33	5·09	96·85	2·92	65 08	1·67	40·33	4·75	13·69	1·58	35 32	2·08	6·38	6·00	154·76

CALCUTTA,
The 1st July 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 28th June 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 28th June 1890.			Week ending Saturday, the 29th June 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	167	24,332	304	212	54,150	828
Jute	2	675	12	26	10,350	169
Firewood	35	19,400	297	89	55,775	893
Other articles	564	1,30,738	1,749	729	2,32,675	3,189
Total ...	768	1,75,145	2,362	1,056	3,52,950	5,079

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of May 1890, *as compared with the same month of the previous year.*

Staples.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	405	.....	152	.....	405	152	.....	253
Cotton raw	2	.....	2	.....	2	2	.....	.....
Cotton piece-goods—								
1.—European	56	.....	42	.....	56	42	.....	14
Grains—								
2.—Rice	7	8	68	60	15	128	113	.....
4.—Others	32	12	30	22	44	52	8	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	2	.....	5	2	5	3	.....
2.—Skins of sheep, goats and small animals—								
a.—Dressed	.....	1	.....	1	1	1	.....	.....
b.—Undressed	.....	1	.....	.....	1	.....	.....	1
Jute—								
1.—Raw	.....	30	.....	196	30	196	166	.....
2.—Gunny-bags and cloths	3	3	4	14	11	18	7	.....
Lac—								
1.—Stick	.....	2	3	1	2	4	2	.....
Leather, manufactured	1	.....	.....	.....	1	.....	.....	1
Liquors—								
1.—Beer	1	.....	.....	.....	1	.....	.....	1
2.—Wines	1	.....	1	.....	1	1	.....	.....
Metals—								
2.—Iron	4	.....	12	.....	4	12	8	.....
4.—Others	2	2	12	4	4	16	12	.....
Oils—								
1.—Castor	1	.....	2	.....	1	3	1	.....
2.—Kerosine	1	.....	.....	.....	1	.....	.....	1
3.—Others	11	.....	3	.....	11	3	.....	8
Oilseeds—								
1.—Linseed	1	493	.....	12	494	12	.....	482
2.—Mustard and rape	165	.....	36	1	165	37	.....	128
Provisions—								
1.—Ghee	1	.....	2	.....	1	2	1	.....
2.—Dried fruits and nuts	1	.....	1	1	1	2	1	.....
3.—Others	14	.....	12	.....	14	12	.....	2
Paper and pasteboard	1	.....	.....	.....	1	.....	.....	1
Railway plant and rolling-stock	7	14	52	37	21	89	68	.....
Salt	93	.....	94	.....	93	94	1	.....
Silk, raw—								
2.—Indian	2	15	3	21	17	24	7	.....
Silk piece-goods—								
2.—Indian	.....	2	1	3	3	4	2	.....
Spices—								
2.—Others	.....	.....	3	.....	.....	3	3	.....
Stone and lime	11	.....	14	.....	11	14	3	.....
Sugar—								
1.—Drained	17	.....	38	.....	17	38	21	.....
2.—Undrained	4	.....	27	.....	4	27	23	.....
Tobacco	9	2	.....	.....	11	.....	.....	11
Timber	.....	.....	6	.....	.....	6	6	.....
Wool—								
2.—Piece-goods—								
b.—Indian	1	.....	.....	.....	1	.....	.....	1
All other articles of merchandise	105	13	209	35	118	244	126	.....
Total ...	904	600	829	413	1,504	1,242	582	904

	Tons.
INCREASE.	
Grain—	
(2) Rice	113
This is due to greater export owing to high rate at Calcutta.	
Jute—	
(1) Raw	166
This is due to greater export at Calcutta for want of water in the Bhagiruthy.	
Railway plant and rolling-stock	68
This is due to more materials carried during the month for maintenance.	
Sugar—	
(1) Drained	21
Due to greater demand in the local market in Moorshedabad.	
(2) Undrained	23
Due to greater demand in the local market in Moorshedabad.	
DECREASE.	
Coal	253
Due to previous stock not being exhausted.	
Cotton piece-goods—	
(1) European	14
Due to import by steamer plying between Tentooliah on the Bhairob and Calcutta.	
Oil-seeds—	
(1) Linseed	482
Exported to Calcutta by steamer plying between Tentooliah and Calcutta.	
(2) Mustard and rape	128
Due to less import owing to less demand.	
Tobacco	11
Due to less import owing to less demand.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
al traffic for the week ...	*302,345	1*3,09,841 1 0	21,17,678 30	4,81,904 1 0	20,949 6 0	8,12,694 8 0	65,354½	87,539½	152,894
per mile of railway	.....	203 1 9	.....	315 14 4	13 11 9	532 11 10	.....	.....	.....
previous 24 weeks of half-ear	6,301,234	68,09,607 5 0	6,13,15,756 10	1,44,82,000 4 3	4,93,591 13 9	2,17,85,199 7 0	1,568,769½	2,315,750½	3,884,519½
Total for 25 weeks ...	6,603,579	71,19,448 6 0	6,34,33,435 0	1,49,63,904 5 3	5,14,541 3 9	2,25,97,893 15 0	1,634,123½	2,403,289½	4,037,413½
COMPARISON.									
al for corresponding week previous year	285,480½	2,68,901 8 3	34,88,564 20	6,09,855 7 10	21,945 8 8	9,00,703 8 9	63,942	105,402	169,344
mile of railway correspond-ng week of previous year ...	.....	176 4 4	.....	390 12 5	14 6 2	590 6 11	.....	.....	.....
al to corresponding date of revious year	6,767,244½	72,64,750 1 6	7,15,48,266 10	1,56,56,703 3 2	4,40,735 2 0	2,33,02,188 6 8	1,630,712	2,514,304	4,145,016

* The increase in coaching traffic is partly due to the sun eclipse and partly to "Rathjattra."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

CEIPTS FOR WEEK ENDING 22ND JUNE 1889.			RECEIPTS FOR WEEK ENDING 21ST JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
an age ed.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
35½	9,00,703	590	1,525½	8,12,695	533	1,525½	1,12,36,305	614	1,525½	1,04,29,307	570	.....	8,06,998

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,401	6,041 11 0	33,877 0	2,114 9 0	48 14 0	8,205 2 0	853	743	1,5
Or per mile of railway	234½	105 10 0	592 20	36 15 6	0 13 8	143 7 2	.....	.....	.....
For previous 24 weeks of half-year	332,007	1,65,465 7 0	11,75,326 20	75,323 6 0	1,103 8 0	2,41,892 5 0	37,921½	17,951	55,8
Total for 25 weeks ...	345,408	1,71,507 2 0	12,09,203 20	77,437 15 0	1,152 6 0	2,50,097 7 0	38,774½	18,694	57,4
Comparison.									
Total for corresponding week of previous year	10,776	5,277 6 11	40,417 0	2,471 1 0	32 4 3	7,780 12 0	994	745	1,7
Per mile of railway corresponding week of previous year ...	188½	92 4 2	706 30	43 3 3	0 9 0	136 0 5	.....	.....	.....
Total to corresponding date of previous year	337,950½	1,75,388 2 9	11,66,357 0	65,727 9 0	1,666 14 0	2,42,782 9 9	41,782	19,106	60,9

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 22nd June 1889.			Receipts for week ending 21st June 1890.			Total receipts from 1st April 1889 to 22nd June 1889.			Total receipts from 1st April 1890 to 21st June 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	7,781	136	57½	8,205	143	57½	1,05,188	153	57½	1,21,467	177	16,279	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 22¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles ru		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Tot
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	21,418	5,540 5 0	8,130 10	306 5 0	7 12 0	5,254 6 0	908	60	
Or per mile of railway	.....	249 0 1	.....	13 12 3	0 5 7	268 1 11	.....	.....	.....
For previous 24 weeks of half-year	536,739	1,41,489 0 0	3,54,711 20	11,327 6 0	219 4 0	1,53,035 10 0	21,858	2,417	23,
Total for 25 weeks ...	558,157	1,47,029 5 0	3,62,841 30	11,633 11 0	227 0 0	1,58,890 0 0	22,266	2,477	24,
Comparison.									
Total for corresponding week of previous year	20,259½	5,194 0 10	5,019 10	182 8 0	3 0 0	5,379 8 10	915	53	
Per mile of railway corresponding week of previous year ...	.....	233 7 0	.....	8 3 3	0 2 2	241 12 5	.....	.....	.....
Total to corresponding date of previous year	570,928	1,49,696 15 10	2,27,061 0	8,860 7 0	195 0 9	1,58,752 7 7	22,982	1,504	24,

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 22nd June 1889.			Receipts for week ending 21st June 1890.			Total receipts from 1st April 1889 to 22nd June 1889.			Total receipts from 21st April 1890 to 21st June 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22¼	5,390	242	22¼	5,854	263	22¼	77,587	291	22¼	77,626	291	39	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 14th June 1890, on 767 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
ffic for the week... ...	139,680	65,420 0 0	4,12,270 0	76,010 0 0	15,910 0 0	1,57,340 0 0	22,804	31,527	54,421
ile of railway	182	85 0 0	538 0	99 0 0	†3 0 0	187 0 0	.....	.....	.....
rious 23 weeks of half-	*a*3,762,951	17,30,429 0 0	*1,29,29,388 0	23,02,996 0 0	4,34,787 0 0	*44,68,212 0 0	516,471	704,272	1,220,743
Total for 24 weeks ..	3,902,631	17,95,849 0 0	1,33,41,658 0	23,79,095 0 0	4,50,697 0 0	46,25,552 0 0	539,365	735,799	1,275,164
COMPARISON.									
corresponding week of s year	*b*155,339	72,368 0 0	5,42,109 0	73,737 0 0	16,911 0 0	1,63,016 0 0	21,632	22,803	44,51
of railway correspond- iod of previous year .. corresponding date of s year	231	108 0 0	805 0	110 0 0	†4 0 0	222 0 0	.....	.....	.....
	3,556,351	17,52,660 0 0	1,21,95,066 0	19,91,942 0 0	4,45,679 0 0	41 90,281 0 0	516,211	577,146	1,093,357

* Audited up to week ending 3rd May 1890.
† Excluding steamer earnings.
a Audited up to week ending 12th April 1890.
b Due to Dushohara bathing festival.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

TS FOR WEEK ENDING 5TH JUNE 1889.		RECEIPTS FOR WEEK ENDING 14TH JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,63,016	242	767	1,57,340	205	673	17,84,773	241	756	*18,80,545	226	95,772	.....

* Audited up to week ending 3rd May 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 14th June 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
ffic for the week ...	26,380	10,040 0 0	31,470 0	2,360 0 0	220 0 0	12,620 0 0	3,027	2,045	5,072
ile of railway	211	80 0 0	252 0	19 0 0	2 0 0	101 0 0	. ...	.....	.....
rious 23 weeks of half-	*658,250	2,23,544 0 0	*11,75,767 0	68,793 0 0	1,429 0 0	*2,93,766 0 0	81,566	46,666	128,232
Total for 24 weeks ...	684,630	2,33,584 0 0	1,207,237 0	71,153 0 0	1,649 0 0	3,06,386 0 0	85,193	48,711	133,904
COMPARISON.									
corresponding week of us year	35,424	*a*16,973 0 0	53,150 0	2,791 0 0	41 0 0	19,805 0 0	3,821	1,937	5,758
of railway correspond- riod of previous year .. corresponding date of s year	283	136 0 0	425 0	22 0 0	.....	158 0 0	.....	.....	.....
	708,600	2,51,881 0 0	13,39,057 0	77,713 0 0	5,002 0 0	3,34,596 0 0	88,328	46,729	135,057

* Audited up to week ending 3rd May 1890.
a Due to Dushohara bathing festival.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

TS FOR WEEK ENDING TH JUNE 1889.		RECEIPTS FOR WEEK ENDING 14TH JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
19,805	158	125	12,620	101	125	1,56,855	114	125	*1,35,927	99	.....	20,928

* Audited up to week ending 3rd May 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 14th June 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles ru		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Tot
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,860	4,480 0 0	10,830 0	990 0 0	100 0 0	5,570 0 0	2,414	690	3
Or per mile of railway	173	52 0 0	126 0	12 0 0	1 0 0	65 0 0	.....	.....	...
For previous 23 weeks of half-year	393,293	1,20,764 0 0	*5,31,063 0	50,228 0 0	3,731 0 0	*1,74,723 0 0	54,795	17,998	72
Total for 24 weeks ...	408,153	1,25,244 0 0	5,41,893 0	51,218 0 0	3,831 0 0	1,80,293 0 0	57,209	18,688	75
Comparison.									
Total for corresponding period of previous year : . .	13,777	4,010 0 0	64,503 0	2,921 0 0	651 0 0	7,582 0 0	2,479	625	3
Per mile of railway corresponding period of previous year ...	160	47 0 0	750 0	34 0 0	7 0 0	88 0 0	.....	.....	...
Total to corresponding date of previous year	367,290	1,11,400 0 0	3,73,717 0	26,034 0 0	4,549 0 0	1,41,983 0 0	59,011	18,932	77

* Audited up to week ending 3rd May 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 15th June 1889.			Receipts for week ending 14th June 1890.			Total receipts from 1st April 1889 to 15th June 1889.			Total receipts from 1st April 1890 to 14th June 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worke d per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,582	88	86	5,570	65	86	59,326	63	86	*67,068	71	7,683	.....

* Audited up to week ending 3rd May 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 14th June 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles ru		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	To
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,022	1,013 0 0	12,327 0	759 0 0	19 0 0	1,791 0 0	509	254	
Or per mile of railway	107	37 0 0	452 0	28 0 0	1 0 0	66 0 0	.....	.....	...
For previous 22 weeks of half-year	75,410	27,667 0 0	2,71,672 0	16,428 0 0	2,192 0 0	46,287 0 0	11,544	10,717	22,
Total for 23 weeks ...	78,332	28,680 0 0	2,83,999 0	17,187 0 0	2,211 0 0	48,078 0 0	12,053	10,971	23,
Comparison.									
Total for corresponding week of previous year	5,604	2,271 0 0	11,900 0	746 0 0	21 0 0	3,038 0 0	727	309	1,
Per mile of railway corresponding week of previous year ...	206	83 0 0	437 0	27 0 0	1 0 0	111 0 0	.....	.....	...
Total to corresponding date of previous year	82,244	31,285 0 0	2,62,337 0	16,309 0 0	2,074 0 0	49,663 0 0	12,452	10,189	22,

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 15th June 1889.			Receipts for week ending 14th June 1890.			Total receipts from 1st April 1889 to 15th June 1889.			Total receipts from 1st April 1890 to 14th June 1890.			Total increase in 1889-90.	Total decrease 1889-90
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	3,038	111	27¼	1,791	66	27¼	21,428	71	27¼	19,365	65	.....	2,06

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 14th June 1890, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	* Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Traffic for the week	41,977	15,358 0 0	2,19,168 0	24,515 0 0	2,624 0 0	42,497 0 0	4,963	8,805	13,768
mile of railway	154	56 0 0	803 0	90 0 0	8 0 0	149 0 0*	.....	.....	.....
revious 22 weeks of half-	1,053,504	4,24,850 0 0	56,81,718 0	6,52,163 0 0	73,005 0 0	11,50,018 0 0	116,976	213,840	330,776
Total for 23 weeks ...	1,095,481	4,40,208 0 0	59,00,886 0	6,76,678 0 0	75,629 0 0	11,92,515 0 0	121,899	222,645	344,544
Comparison.									
for corresponding week revious year	43,288	16,736 0 0	2,48,203 0	19,096 0 0	5,859 0 0	42,001 0 0	4,916	5,565	10,481
le of railway correspond- week of previous year ...	170	61 0 0	909 0	73 0 0	3 0 0	137 0 0*	.....	.....	.....
to corresponding date of tous year	1,038,518	3,89,183 0 0	38,17,997 0	3,63,957 0 0	94,889 0 0	8,48,005 0 0	124,970	135,142	260,112

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

ipts for week ending 15th June 1889.		Receipts for week ending 14th June 1890.			Total receipts from 1st April 1889 to 15th June 1889.			Total receipts from 1st April 1890 to 14th June 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
42,001	154	273	42,497	156	273	4,35,626	145	273	4,93,295	164	57,669	.....

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No. 28 of 1890.

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OFFICIAL PAPERS.

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RETURNS OF JOINT STOCK COMPANIES FOR THE YEAR 1889-90.

No. I.

Statement shewing the name and number on the Register borne by each Joint Stock Company registered in the Calcutta Registry Office, with its object, nominal capital and date of registration, during the year ending 31*st March* 1890.

Number on this list.	Number borne by each Company in the General Register.	Names of Companies.	Object of each Company.	Date of registration.	Nominal Capital.	Remarks.
					Rs.	
1	574	Jalpaiguri Banking and Trading Corporation, Ld.	Banking business	23rd May 1889...	1,00,000	
2	576	New Chumta Tea Co., Ld. ...	To cultivate tea	24th June ,, ...	1,00,000	
3	577	Indian Imperial Marine Insurance Co., Ld.	Insurance business	3rd July ,, ..	30,00,000	
4	579	Hantapara Tea Co., Ld.	To cultivate tea	6th Aug. ,, ...	2,00,000	
5	580	Anjuman Tea Co., Ld.	Ditto ditto	15th ,, ,, ..	1,50,000	
6	581	Patna Tramway Co., Ld.	To construct tramway in Patna...	28th ,, ,, ..	2,00,000	
7	582	Chengmari Tea Co., Ld.	To cultivate tea	25th Sept. ,, ...	5,00,000	
8	583	Sissi Saw Mills and Trading Co., Ld.	Saw mill business	22nd Oct. ,, ...	2,00,000	
9	584	Jessop & Co., Ld.	Brass and Iron founders and Mechanical Engineers.	7th Nov. ,, ...	[illegible],00,000	
10	585	Seebpore Jute Manufacturing Co., Ld.	Spinning and weaving jute ...	28th ,, ,, ...	10,00,000	
11	586	Mohesh Chunder Land Reclamation and Agricultural Improvement Co., Ld.	Promoting agricultural improvement, &c.	3rd Dec. ,, ...	2,50,000	
12	587	Calcutta Flour Mills Co., Ld. ...	Milling and preparing flour ..	18th ,, ,, ...	1,50,000	
13	588	European and Anglo-Indian Defence Association	Association not for profit	20th ,, ,, ...	Limited by guarantee.	
14	590	Bengal Paper Mill Co., Ld.	Manufacturing paper, &c.... ...	28th Jan. 1890 ..	7,00,000	
15	591	Rajshahi Dhanes Co., Ld. ...	General trade	4th Feb. ,, ..	20,000	
16	592	Damuda Coal Co., Ld.	Mining coal	8th ,, ,, ..	3,24,000	
17	593	Pioneer Glass Manufacturing Co., Ld.	Manufacturing glass	22nd ,, ,, ...	1,50,000	
18	594	Calcutta Skating and Amusement Club, Ld.	Amusements	24th ,, ,, ..	1,00,000	
19	595	Nigali Tea Co., Ld.	To cultivate tea	25th ,, ,, ...	1,00,000	
20	596	Kumlai Tea Association, Ld. ..	To cultivate tea, &c.	21st March ,, ...	1,60,000	
21	597	Bankipore Loan Office, Ld. ...	Banking business	26th ,, ,, ...	50,000	
22	598	Indian Patent Stone Co., Ld. ...	Manufacturing patent stone ...	28th ,, ,, ...	57,000	
					84,11,000	

No. II.

Statement shewing the Register numbers and names of Companies that have increased their Capital during the year ending 31*st March* 1890.

Number on this list.	Register number borne by each Company.	Date of registration.	Amount of original capital.	Names of Companies.	Date of increase.	Amount of increased capital.	Remarks.
			Rs.			Rs.	
1	402	18th Feb. 1884 ...	10,50,000	Tarkessur Railway Co., Ld. ...	29th April 1889 ...	17,50,000	
2	439	30th May 1882 ...	8,000	Northern Bengal Railway Co-operative Supply Association, Ld. ...	14th May ,, ..	11,400	
3	533	9th July 1886 ...	1,20,000	Chalouni Tea Co., Ld.	18th ,, ,, ...	2,00,000	
4	519	5th Jan. ,, ...	3,50,000	Chulsa Tea Co. (Dooars), Ld. ...	30th July ,, ...	4,00,000	
5	432	21st Mar. 1882 ...	5,00,000	Tingri Tea Co., Ld.	2nd Aug. ,, ...	5,25,000	
6	505	3rd Jan. 1885 ...	1,50,000	Manabarrie Tea Co., Ld.	24th March 1890 ...	2,00,000	
			27,78,000			30,86,400	

No. III.

Statement showing the Register numbers and names of Companies that have commenced winding up, have been finally dissolved or are otherwise defunct, with their capital, dates of registration, winding up or final dissolution, during the year ending 31*st March* 1890.

Number on this list.	Register number borne by each Company.	Names of Companies.	Nominal capital.	Date of registration.	Date of winding up.	Date of final dissolution.	Date on which written off defunct.	Remarks.
			Rs.					
1	412	Goomtee Tea Co., Ld. ...	80,000	8th Mar. 1881	28th Feb. 1889	15th May 1889		
2	302	Sungoo River Tea Co., Ld.	2,00,000	13th Nov. 1874	28th Dec. 1887	15th May 1889		
3	557	Behar Co-operative Stores Association, Ld.	1,00,000	15th June 1888	25th June 1889	.....		
4	263	Burmah Steam Tug Co., Ld.	3,00,000	12th July 1866	25th June 1889	.....		
5	500	Shumshernugger Tea Co., Ld.	2,00,000	23rd Jan. 1885	7th Feb. 1889	18th July 1889		
6	440	Rapjan Tea Association, Ld.	70,000	8th Mar. 1880	7th Nov. 1889	29th Aug. 1889		
7	67	Kanchanpore Tea Co., Ld.	5,00,000	18th Nov. 1861	30th Aug. 1889	.....		
8	529	Amicable Insurance Office, Ld.	10,00,000	26th May 1886	14th Oct. 1889	.....		
9	503	Kerosine Oil Co., Ld. ...	10,000	9th Dec. 1884	15th Oct. 1889	.....		
10	490	Deoghur Mining Co., Ld.	9,45,000	19th Jan. 1884	17th April 1888	15th Oct. 1889		
11	272	Seebpore Jute Manufacturing Co., Ld.	15,00,000	1st Dec. 1873	28th Nov. 1889	.....		
12	235	Majagram Tea Co., Ld. ...	2,00,000	27th Jan. 1872	7th Jan. 1890	.....		
13	522	Oriental Saling Co., Ld....	1,00,000	7th Dec. 1885	30th Jan. 1890	.....		
14	554	Indian Patent Stone Co., Ld.	57,000	8th May 1888	24th Mar. 1890	.....		
			57,57,000					

No. IV.

Statement showing the register number and name of Company that has reduced its capital during the year ending 31st March 1890.

Number on this list.	Register number borne by Company.	Date of registration.	Amount of original capital.	Name of the Company.	Date of reduction.	Amount of capital reduced.	Remarks.
1	307	16th December 1874	Rs. 20,00,000	Dunbar Cotton Mill, Ld. ...	29th July 1889 ...	Rs. 14,00,000	High Court order dated 22nd July 1889.

No. VI.

Statement showing the numbers and names of existing Companies working in Bengal for the year ending 31st March 1890.

Banking and Insurance Companies.

Serial number.	Number.	Names of Companies.	Date of registration.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	Remarks.
				Rs.	Rs.		
1	1	Hong-Kong and Shanghai Banking Corporation	7th April 1868	1,68,75,000	1,68,75,000	31st Dec. 1889	
2	2	Furreedpore Loan Office, Ld.	18th June 1870	20,000	18,800	12th April ,,	
3	3	Tipperah Loan Office, Ld.	25th March 1871	1,00,000	88,720	12th ,, ,,	
4	4	Mymensingh Loan Office, Ld.	23rd Sept. 1873	1,00,000	60,000	12th ,, ,,	
5	5	Barisal Loan Office, Ld.	17th Nov. ,,	20,000	18,000	12th March ,,	
6	6	Bogra Loan Office, Ld.	5th ,, 1874	20,000	11,500	12th April ,,	*By oversight shown as 20,000 in 1888-89.
7	7	Nasirabad Loan Office, Ld.	26th Sept. 1875	50,000	24,180	13th ,, ,,	
8	8	Jessore Loan Co., Ld.	12th April 1876	1,20,000	1,00,000	31st March ,,	
9	9	Saharserpur Loan Office, Ld.	26th June ,,	20,000	15,170	12th April ,,	
10	10	Moonsheegunge Loan Office, Ld. ...	29th July ,,	20,000	12,010	14th Dec. ,,	
11	11	Hindoo Union Bank, Ld.	26th Feb. 1880	20,000	1,530	31st ,, ,,	
12	12	Dacca Loan Office, Ld.	29th March ,,	2,00,000	1,39,000	12th April ,,	
13	13	Sylhet Loan Co., Ld.	13th August 1881	20,000	6,380	15th July ,,	
14	14	Chota Nagpore Banking Association, Ld.	21st Feb. 1883	20,000	12,580	31st Dec. ,,	
15	15	Pubna Bank, Ld.	8th Aug. ,,	20,000	15,000	12th April ,,	
16	16	Kishorgunge Loan Office, Ld.	19th Sept. ,,	50,000	32,370	12th ,, ,,	
17	17	Noakhali Loan Office, Ld.	2nd March 1885	20,000	.....	.....	
18	18	Tangail Loan Office, Ld.	12th Feb. 1887	50,000	20,000	12th April ,,	
19	19	Ghatail Sammiloni Dhan Bhander, Co., Ld.	27th July ,,	20,000	11,820	12th ,, ,,	
20	20	Kurigram Loan Office, Ld.	4th Aug. ,,	10,000	7,120	12th Jan. 1890	
21	21	Khulna Loan Co., Ld.	15th Sept. ,,	15,000	14,872	31st Dec. 1889	
22	22	Digh Pait Milit Dhan Bhander Co., Ld.	2nd May 1888	20,000	.....	.....	
23	23	Julpaiguri Banking and Trading Corporation, Ld.	23rd ,, 1889	1,00,000	... ..	.....	
24	24	Bankipore Loan Office, Ld.	24th March 1890	50,000	...	.....	
25	25	Triton Insurance Co., Ld.	5th Sept. 1887	22,50,000	4,23,450	31st Dec. 1888	
26	26	Reliance Marine Insurance Office, Ld.	9th Nov. ,,	20,00,000	51,000	31st ,, 1889	
27	27	Indian Imperial Marine Insurance Co., Ld.	3rd July 1889	30,00,000	.....	.....	
				2,52,10,000	1,79,65,552		

Trading Companies.

				Rs.	Rs.		
28	1	Darjeeling-Himalayan Railway Co., Ld.	10th April 1879	17,50,000	17,50,000	31st Dec. 1888	
29	2	Deoghur Railway Co., Ld.	30th Jan. 1882	2,75,000	2,75,000	31st ,, ,,	
30	3	Tarkessur Railway Co., Ld.	18th Feb. 1884	17,50,000	16,50,000	31st ,, ,,	
31	4	Rangoon Steam Tramway Co., Ld. ...	15th ,, 1889	7,50,000	6,00,000	.....	
32	5	Patna Tramway Co., Ld.	28th Aug. ,,	2,00,000	.....	.....	
33	6	Asansol E. I. R. Co-operative Society, Ld.	13th Feb. 1873	10,000	10,000	31st Dec. 1888	
34	7	Buxar Co-operative Society, Ld.... ...	25th May ,,	4,000	4,000	31st ,, 1889	
35	8	Northern Bengal Railway Co-operative Supply Assn., Ld	30th ,, 1892	11,400	11,400	31st ,, ,,	
36	9	Asansol Railway Co-operative Ice and Aerated Water Supply Ld.	30th Nov. 1887	16,000	.....	.....	
37	10	India General Steam Navigation Co., Ld.	25th Sept. 1858	80,00,000	70,74,400	31st March 1889	
38	11	Orissa Coasting Steam Navigation Co, Ld.	24th Aug. 1882	4,00,000	2,84,975*	31st July ,,	*By oversight shown as 2,84,995 last year.
39	12	Calcutta Steam Navigation Co., Ld. ...	9th Nov. ,,	8,40,000	8,40,000	31st Dec. ,,	
40	13	Calcutta Landing and Shipping Co., Ld.	7th Aug. 1868	5,00,000	4,20,000	30th April 1888	
41	14	R. Scott Thomson & Co., Ld.	1st April ,,	5,00,000	4,67,000	31st March 1889	
42	15	Howrah Docking Co., Ld.	15th Sept. ,,	8,00,000	8,00,000	31st Dec. ,,	
43	16	Agricultural Phosphates Co., Ld. ...	18th Dec. 1873	1,00,000	85,000	31st ,, 1888	
44	17	Narail Trading Co., Ld.	20th March 1879	20,000	6,668	31st ,, ,,	
45	18	Pingna Trading Co., Ld.	9th Feb. 1881	1,00,000	50,000	12th April 1890	
46	19	Co-operative Pharmacy Co., Ld.... ...	31st May 1882	50,000	29,273	30th June 1888	
47	20	W. Newman & Co., Ld.	11th Feb. ,,	3,50,000	3,46,500	30th ,, 1889	
48	21	Gobra Tannery Co., Ld.	9th Sept. ,,	1,50,000	1,50,000	31st Dec. 1888	
49	22	Darjeeling and Kurseong Hotel and Trading Co., Ld.	2nd Feb. 1883	2,00,000	2,00,000	31st ,, ,,	
50	23	Great Eastern Hotel Wine and General Purveying Co., Ld....	4th ,, 1886	12,00,000	12,00,000	30th April 1889	
51	24	Ranegunge Cement and Lime Works, Ld.	30th June 1887	3,00,000	2,00,000	31st March ,,	
52	25	Mofussil Supply Co., Ld.	4th Aug. ,,	10,000	.....	.....	
53	26	Indian Tea Supply Co., Ld.	8th Dec. ,,	3,00,000	1,90,950	31st Dec. 1888	
54	27	Catholic Book-Selling Co., Ld.	17th April 1888	20,000	.....	.....	
55	28	H. Dear and Co., Ld.	15th June ,,	6,00,000	6,00,000	31st Oct. 1888	
56	29	Behar Commercial Co., Ld.	29th Nov. ,,	20,000	.....		
57	30	Chota Nagpore Carrying Co., Ld. ...	28th Feb. 1889	25,000	.....		
58	31	Kayasta Trading Co., Ld....	5th March ,,	20,000	4,410	11th July 1889	
59	32	Jessop and Co., Ld....	8th Nov. ,,	9,00,000	.....	.....	
60	33	Rajshahi Dhanee Co., Ld.	4th Feb. 1890	20,000	.....	.....	
61	34	Calcutt Skating and Amusement Club, Ld.	24th ,, ,,	1,00,000	.....	.....	
				2,02,86,400	1,71,59,586		

Mills and Presses.

Serial number.	Number.	Names of Companies.	Date of registration.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	Remarks.
				Rs.	Rs.		
62	1	Gooserv Cotton Mills Co., Ld.	9th Oct. 1863	15,00,000	15,00,000	31st Dec. 1889	
63	2	Bowreah Cotton Mills Co., Ld.	7th Aug. 1872	18,00,000	18,00,000	28th Feb. ,,	
64	3	Dunbar Cotton Mill Co., Ld.	18th Dec. 1874	14,00,000	9,29,950	31st Dec. ,,	
65	4	Empress of India Cotton Mills Co., Ld.	19th April 1877	8,75,000	8,75,000	30th June ,,	
66	5	Calcutta Cotton Mills Co., Ld.	5th Jan. 1889	5,00,000	4,53,000	31st Dec. ,,	
67	6	Budge Budge Jute Mills Co., Ld. .	21st April 1873	18,00,000	14,40,000	30th April ,,	
68	7	Fort Gloster Jute Manufacturing Co., Ld.	6th May ,,	14,00,000	14,00,000	31st May ,,	
69	8	Seebpore Jute Manufacturing Co., Ld.	28th Nov. 1889	10,00,000	10,00,000	31st Dec. ,,	
70	9	Howrah Mills Co., Ld.	14th July 1874	17,50,000	17,50,000	31st ,, ,,	
71	10	Gouripore Co., Ld.	12th April 1878	12,00,000	12,00,000	31st ,, ,,	
72	11	Kamarhatty Co., Ld.	28th Sept. 1877	8,00,000	4,00,000	31st ,, ,,	
73	12	Union Jute Co., Ld.	5th Oct. 1880	12,00,000	9,00,000	31st ,, ,,	
74	13	Hooghly Mills Co., Ld.	21st Sept. 1882	13,50,000	10,50,000	31st ,, ,,	
75	14	Kankinarrah Co., Ld.	30th Dec ,,	14,00,000	8,26,000	31st ,, ,,	
76	15	Bengal Silk Co., Ld.	20th June 1881	3,50,000	3,50,000	31st Oct. ,,	
77	16	Nasmyth's Patent Press Co., Ld. ...	16th Sept. 1867	4,00,000	4,00,000	30th June ,,	
78	17	Calcutta Hydraulic Press Co., Ld. ...	10th April 1873	1,70,000	1,70,000	31st Dec. ,,	
79	18	Watson's Patent Press Co., Ld.	25th Feb. 1874	3,00,000	3,00,000	31st ,, ,,	
80	19	Ramkristopore Press Co., Ld. ...	23rd April ,,	1,30,000	1,30,000	30th Sept. ,,	
81	20	Riverside Press Co. (Watson's Patent), Ld.	13th July ,,	3,00,000	2,99,800	31st Dec. ,,	
82	21	Strand Bank Press Co. (W. P.) Ld. ...	24th July ,,	2,50,000	2,50,000	31st Jan. 1890	
83	22	Chitpore Hydraulic Pressing Co., Ld. ...	17th March 1879	4,00,000	4,00,000	31st Dec. 1889	
84	23	Canal Press Co., Ld....	20th Sept. 1881	2,40,000	2,40,000	31st July ,,	
85	24	Camperdown Pressing Co., Ld.	25th July 1882	5,00,000	4,30,000	31st ,, ,,	
86	25	Agra Pressing Co., Ld.	30th June 1883	1,55,000	1,45,750	30th June ,,	
87	26	India Pressing Co., Ld.	13th Aug. ,,	1,50,000	1,50,000	31st Dec. ,,	
88	27	Titaghur Paper Mills Co., Ld.	28th July 1882	9,00,000	8,12,675	30th June ,,	
89	28	Bengal Paper Mills Co., Ld.	28th Jan. 1890	7,00,000	.....	.....	
90	29	Dehing Saw Mills Co., Ld. ...	23rd Feb. 1889	1,00,000	40,700	31st Dec. 1889	
91	30	Sissi Saw Mills and Trading Co., Ld. ...	22nd Oct. ,,	2,00,000	.. ...	.. ...	
92	31	Calcutta Flour Mills Co., Ld.	18th Dec. ,,	1,50,000	.. ..	.....	
93	32	Calcutta Central Press Co., Ld.	21st April 1885	75,000	70,700	30th April 1889	
				2,34,45,000	1,96,73,575		

Planting Companies.

				Rs.	Rs.		
94	1	Bengal Tea Co., Ld.	23rd Nov. 1859	10,00,000	9,48,520	31st Dec. 1888	
95	2	Balasun Tea Co., Ld.	2 st Feb. 1860	2,00,000	2,00,000	31st ,, ,,	
96	3	East India Tea Co., Ld.	7th Aug. 1861	10,00,000	10,00,000	31st ,, ,,	
97	4	Sylhet Tea Co., Ld.	15th Dec. ,,	1,50,000	1,49,633	1st Jan. 1890	
98	5	Ramghur Co., Ld.	13th May 1862	10,00,000	4,25,000	31st Dec. 1889	
99	6	Soom Tea Co., Ld.	20th Nov. ,,	3,00,000	3,00,000	31st ,, ,,	
100	7	Punkabarie Tea Co Ld.	9th March 1863	2,50,000	2,18,342	31st ,, 1888	
101	8	Dehra Doon Tea Co., Ld.	31st ,, ,,	20,00,000	8,78,000	31st ,, 1889	
102	9	Central Cachar Tea Co., Ld.	2nd May ,,	10,00,000	10,00,000	31st ,, 1888	
103	10	Bishnauth Tea Co., Ld.	6th ,, ,,	11,00,000	8,25,000	31st ,, ,,	
104	11	Eastern Cachar Tea Co., Ld.	15th July ,,	7,00,000	7,00,000	31st ,, 1889	
105	12	Kurseong and Darjeeling Tea Co., Ld.	12th Dec. ,,	8,00,000	6,54,300	31st ,, 1888	
106	13	Durrung Tea Co., Ld.	4th Jan. 1864	5,00,000	4,65,000	31st ,, ,,	
107	14	Monacherra Tea Co., Ld.	30th ,, ,,	8,00,000	7,29,150	31st ,, ,,	
108	15	Tukvar Co., Ld.	20th Feb. ,,	12,00,000	7,34,300	31st ,, 1889	
109	16	Moran Tea Co., Ld.	20th July ,,	6,00,000	4,80,000	31st ,, 1888	
110	17	Durrabhar Co., Ld.	23rd April 1866	60,000	60,000	30th Nov. 1887	
111	18	Kuttal Tea Co., Ld.	24th Jan. 1867	1,00,000	1,00,000	31st Dec. 1888	
112	19	Chandypore Tea Co., Ld.	8th Aug. ,,	2,50,000	2,50,000	31st ,, ,,	
113	20	New Mutual Tea Co., Ld.	15th ,, 1868	1,20,000	1,17,750	31st ,, 1889	
114	21	Areuttipore Tea Co., Ld.	19th Jan. 1869	3,00,000	3,00,000	31st ,, ,,	
115	22	Cutlacherra Co., Ld.	30th May 1871	2,70,000	2,50,000	31st ,, 1888	
116	23	Singell Tea Co. Ld.	15th Nov. ,,	6,25,000	6,25,000	31st ,, ,,	
117	24	Indian Terai Tea Co., Ld.	4th Dec. ,,	1,50,000	1,50,000	31st ,, 1889	
118	25	Hoolungooree Tea Co., Ld.	23rd March 1872	4,00,000	4,00,000	31st ,, ,,	
119	26	Central Terai Tea Co., Ld....	4th April ,,	4,00,000	4,00,000	31st ,, 1888	
120	27	Dessai and Parbutteah Tea Co. Ld. ...	15th July ,,	1,80,000	1,80,000	31st ,, 1889	
121	28	Cochecla Tea Co., Ld.	17th Jan. 1873	3,00,000	2,48,675	31st ,, 1888	
122	29	Hotta Tea Co., Ld.	27th Feb. ,,	3,50,000	3,50,000	31st ,, 1889	
123	30	Kalacherra Tea Co., Ld.	23th July ,,	2,75,000	2,75,000	31st ,, 1888	
124	31	Singbulli and Marmah Tea Co., Ld. ...	20th Nov. ,,	4,00,000	3,00,000	31st ,, ,,	
125	32	Puttareah Tea Co., Ld.	31st Dec. ,,	2,00,000	2,00,000	31st ,, 1889	
126	33	Spring Side Tea Co., Ld.	10th Jan. 1874	1,68,000	1,68,000	31st ,, ,,	
127	34	Mothola Co., Ld.	5th March ,,	1,50,000	1,38,000	31st ,, 1888	
128	35	Teendarea Co., Ld.	28th July ,,	1,35,000	1,35,000	31st ,, ,,	
129	36	Joonkrollee Tea Co., Ld.	7th Aug. ,,	80,000	80,000	31st ,, ,,	
130	37	Burkhola Tea Co., Ld.	1st Sept. ,,	2,70,000	2,70,000	31st ,, ,,	
131	38	Tingling Tea Co., Ld.	15th ,, ,,	1,50,000	1,50,000	31st ,, ,,	
132	39	Phœnix Tea Co. (of Cachar), Ld. ...	9th Oct. ,,	6,25,000	5,95,000	31st ,, 1889	
133	40	Chota Nagpore Tea Co., Ld., ...	27th Nov. ,,	2,50,000	2,50,000	31st ,, 1888	
134	41	Lackatoorah Tea Co., Ld.	5th Dec. ,,	2,25,000	2,25,000	31st ,, 1889	
135	42	Second Mutual Tea Co., Ld.	26th Feb. 1875	2,45,500	2,03,000	31st ,, ,,	
136	43	Mim Tea Co., Ld.	6th March ,,	1,60,000	1,59,000	31st ,, ,,	
137	44	Gollie Tea Co., Ld.	20th ,, ,,	4,00,000	4,00,000	31st ,, 1888	
138	45	Hoolmaree Tea Co., Ld.	25th ,, ,,	1,20,000	1,20,000	31st ,, ,,	
139	46	Sapahati Tea Co., Ld.	1st May ,,	88,000	88,000	31st ,, ,,	
140	47	Rajabaric Tea Co., Ld.	5th ,, ,,	2,00,000	2,00,000	31st ,, 1889	
141	48	Groh Tea Co., Ld.	21st June ,,	6,00,000	5,00,000	31st ,, ,,	
142	49	North-Western Cachar Tea Co., Ld. ...	25th Jan. 1876	2,75,000	2,70,000	31st ,, ,,	
143	50	Rungiee Rungliot Tea Co., Ld.	21st Feb. ,,	1,40,000	1,40,000	31st ,, 1888	
144	51	Amluckie Tea Co., Ld.	25th July ,,	4,46,500	4,45,700	31st ,, ,,	
145	52	Cachar Native Joint Stock Co., Ld. ...	31st Aug. ,,	1,00,000	53,075	31st ,, ,,	
146	53	Teesta Valley Tea Co., Ld.	20th Nov. ,,	3,50,000	3,20,000	31st ,, ,,	
147	54	Dehing Co., Ld.	5th Jan. 1877	10,00,000	9,00,000	31st ,, ,,	
148	55	Dhunsiri Tea Co., Ld.	23rd March ,,	1,60,000	1,60,000	31st ,, ,,	
149	56	Good Hope Tea Co., Ld	2nd May ,,	1,15,000	1,00,000	31st ,, 1889	
150	57	Motewar Tea Co., Ld.	16th July ,,	56,000	56,000	31st ,, 1888	
151	58	Singlum Tea Co., Ld.	10th Jan. 1878	1,60,000	1,60,000	31st ,, ,,	
152	59	Bahadurpore Tea Co., Ld.	19th March ,,	20,000	17,630	31st ,, ,,	
153	60	Hindoo Tea Co., Ld.	12th July ,,	35,000	24,300	31st ,, ,,	
154	61	Loobah Tea Co., Ld.	27th Sept. ,,	5,00,000	5,00,000	31st ,, 1889	
155	62	Longview Tea Co., Ld.	16th Jan. 1879	3,44,000	3,44,000	31st ,, ,,	
156	63	Darjeeling Tea and Cinchona Association, Ld.	18th ,, ,,	2,00,000	2,00,000	31st ,, 1888	
157	64	Kettela Tea Co., Ld.	25th March ,,	1,50,000	1,50,000	31st ,, ,,	
158	65	Munjha Tea Co., Ld.	19th April ,,	1,50,000	1,50,000	31st ,, 1889	
159	66	Jalpaiguri Tea Co., Ld.	29th May ,,	50,000	50,000	31st ,, ,,	

Serial number.	Number.	Names of Companies.	Date of registration.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	Remarks.
				Rs.	Rs.		
160	67	Washabarie Tea Co., Ld.	8th Aug. 1879	1,50,000	1,50,000	31st Dec. 1889	
161	68	Karnafuli Association, Ld.	5th Feb. 1880	3,60,000	3,00,000	31st ,, 1888	
162	69	Nahartoli Tea Co., Ld.	14th ,, ,,	1,60,000	1,40,500	31st ,, ,,	
163	70	Ringtong Tea Co., Ld.	7th ,, 1881	3. 0,000	2,00,000	31st ,, 1889	
164	71	Sungma Tea Co., Ld.	30th March ,,	1,30,000	1,17,000	31st ,, ,,	
165	72	Khobong Tea Co. Ld.	12th April ,,	3,25,000	3,25,000	31st ,, 1888	
166	73	Ch-nga Tea Co., Ld.	27th July ,,	1,50,000	1,50,000	31st ,, ,,	
167	74	Runnamattee Tea Co., Ld.	15th Feb. 1882	3,50,000	3,50,000	31st ,, 1889	
168	75	Lower Darjeeling Tea Co., Ld.	24th ,, ,,	1,10,000	1,10,000	31st ,, 1888	
169	76	Baintbaree Tea Co. Ld.	14th March ,,	1,60,000	1,60,000	31st ,, ,,	
170	77	Tingri Tea Co., Ld.	21st ,, ,,	5,25,000	5,00,000	31st ,, ,,	
171	78	Jinglam Tea Co., Ld.	2nd ,, ,,	1,80,000	1,60,000	31st ,, ,,	
172	79	Ellenbaree Tea Co., Ld.	25th April ,,	1,50,000	1,50,000	31st ,, 1889	
173	80	Mesai Tea Co., Ld.	5th July ,,	2,50,000	2,50,000	30th Nov. 1888	
174	81	Pashok Tea Co., Ld.	5th Sep. ,,	2,50,000	2,20,000	31st Dec. ,,	
175	82	Northern Bengal Tea Corporation, Ld.	28th ,, ,,	1,00,000	85,400	31st ,, 1889	
176	83	Gurjang Jhora Tea Co. Ld.	2nd Dec. ,,	50,000	50,000	31st ,, 1888	
177	84	Phoolbaree Tea Co. Ld.	29th ,, ,,	5,12,000	5,12,000	31st ,, ,,	
178	85	Bagracote Tea Co., Ld.	17th Feb. 1883	4,00,000	4,00,000	31st ,, 1889	
179	86	Bamtgoorie Tea Co. (Doors), Ld. ...	19th ,, ,,	1,50,000	1,50,000	31st ,, ,,	
180	87	Needeem Tea Co., Ld.	1st March ,,	3,00,000	3,00,000	31st ,, ,,	
181	88	Bor Phukhuria Tea Co., Ld., ...	11th July ,,	1,50,000	1,50,000	31st ,, 1888	
182	89	Gyabarie Tea Co., Ld.	12th ,, ,,	2,00,000	1,90,775	31st ,, ,,	
183	90	Second Faludhi Tea Co., Ld.	12th ,, ,,	2,00,000	2,00,000	31st ,, ,,	
184	91	Mohurgong Tea Co., Ld.	9th Aug. ,,	1,60,000	1,60,000	31st ,, 1889	
185	92	Barrong Tea Co., Ld.	28th Nov. ,,	1,50,000	1,45,500	31st ,, 1888	
186	93	Matelli Tea Co., Ld.	27th March 1884	2,00,000	2,00,000	31st ,, 1889	
187	94	Kaliti Tea Co., Ld.	28th May ,,	80,000	80,000	31st ,, 1888	
188	95	Selim Tea Co. Ld.	18th July ,,	15,00,000	9,50,500	31st ,, ,,	
189	96	Tezpore and Gogra Tea Co., Ld. ...	19th ,, ,,	6,50,000	5,98,800	31st ,, 1889	
190	97	Iringmarah Tea Co., Ld.	14th Aug. 1884	1,60,000	1,60,000	31st ,, 1888	
191	98	Manabarrie Tea Co., Ld.	3rd Jan. 1885	2,00,000	1,50,000	31st ,, 1889	
192	99	Nagadh ohe Tea Co., Ld.	16th Feb. ,,	1,76,000	1,76,000	31st ,, 1888	
193	100	Hope Town Tea Co., Ld.	23rd ,, ,,	1,00,000	1,00,000	31st ,, ,,	
194	101	Hope Tea Co., Ld.	21st March ,,	3,60,000	3,60,000	31st ,, 1889	
195	102	Arya Tea Co., Ld.	16th May ,,	36,575	31,586	31st ,, ,,	
196	103	New Cinatollah Tea Co., Ld.	26th ,, ,,	10,000	10,000	31st ,, 1888	
197	104	Mandakata Tea Co., Ld.	22nd Dec. ,,	2,00,000	2,00,000	31st ,, ,,	
198	105	Chincoorie Tea Co., Ld.	22nd ,, ,,	2,00,000	2,00,000	31st ,, ,,	
199	106	Killcott Tea Co., Ld.	29th ,, ,,	2,00,000	2,00,000	31st ,, ,,	
200	107	Chulsa Tea Co. (Doors), Ld.	5th Jan. 1886	4,00,000	4,00,000	31st ,, 1889	
201	108	Zurantee Tea Co. (Doors), Ld.	5th ,, ,,	1,60,000	1,60,000	31st ,, ,,	
202	109	Kallenagger and Khoreel Tea Co., Ld....	16th ,, ,,	3,00,000	3,00,000	31st ,, 1888	
203	110	Bannockburn Tea Co., Ld.	20th Feb. ,,	2,00,000	2,00,000	31st ,, 1889	
204	111	Jaipur Tea Estate, Ld.	18th March ,,	2,00,000	2,00,000	31st ,, 1888	
205	112	Shakomuto Tea Co., Ld.	26th June ,,	2,50,000	2,50,000	31st ,, ,,	
206	113	Singlo Tea Co., Ld.	8th July ,,	12,00,000	12,00,000	31st ,, ,,	
207	114	Chamaguri Tea Co., Ld.	12th ,, ,,	1,50,000	1,50,000	31st ,, ,,	
208	115	Chalouni Tea Co., Ld.	29th ,, ,,	2,00,000	2,00,000	31st ,, 1889	
209	116	Jetinga Valley Tea Co., Ld.	25th Feb. 1888	3,00,000	3,00,000	31st ,, ,,	
210	117	Okayti Tea Co., Ld.	5th June ,,	2,00,000	59,000	31st ,, 1888	
211	118	New Glencoe Tea Co., Ld....	17th July ,,	1,60,000	88,000	31st ,, 1889	
212	119	Carron Tea Co., Ld.	2nd Aug. ,,	1,50,000	97,500	31st ,, ,,	
213	120	Nagamsuree Tea Co., Ld.	23rd ,, ,,	2,40,000	2,40,000	31st ,, ,,	
214	121	Gangaram Tea Co., Ld.	27th Sept. ,,	1,00,000	67,500	31st ,, ,,	
215	122	Kumai Tea Co., Ld.	7th Nov. ,,	2,00,000	80,000	31st ,, ,,	
216	123	Haldibari Tea Association, Ld.	27th March 1889	3,00,000	.....	.....	
217	124	Sath Bhaia Tea Co., Ld.	27th ,, ,,	1,00,000	.....	.....	
218	125	New Chumta Tea Co., Ld.	24th June ,,	1,00,000	.....	.....	
219	126	Hantapara Tea Co., Ld.	6th Aug. ,,	2,00,000	.....	.....	
220	127	Anjuman Tea Co. Ld.	15th ,, ,,	1,50,000	.....	.....	
221	128	Chengmari Tea Co., Ld.	25th Sept. ,,	5,00,000	.....	... ..	
222	129	Nigali Tea Co., Ld.	25th Feb. 1890	1,00,000	.. ..	... ..	
223	130	Kumlai Tea Association, Ld.	21st March ,,	1,60,000	.....	.....	
224	131	Sylhet Cultivating Co., Ld.	23th June 1875	20,000	17,275	12th April 1887	
				4,12,03,575	3,46,64,120		

Mining Companies.

				Rs.	Rs.		
225	1	Bengal Coal Co., Ld.	24th July 1858	24,00,000	24,00,000	31st Oct. 1888	
226	2	Equitable Coal Co., Ld.	1st Aug. 1863	8,00,000	8,00,000	31st Dec. 1889	
227	3	Raneegunge Coal Association, Ld. ...	8th April 1873	9,00,000	8,25,000	31st March ,,	
228	4	New Beerbhoom Coal Co., Ld.	16th May ,,	7,20,000	7,20,000	31st Oct. ,,	
229	5	Burrakur Coal Co., Ld.	19th June 1875	1,50,000	1,50,000	31st May ,,	
230	6	Alipore Coal Co., Ld.	3rd March 1882	3,00,000	3,00,000	30th Nov. ,,	
231	7	Sherghur Co., Ld.	14th Dec. 1886	10,000	10,000	31st Dec. 1888	
232	8	Damuda Coal Co., Ld.	8th Feb. 1890	3,24,000	... ..	.....	
233	9	Rajmahal Stone Co., Ld.	30th June 1876	2,50,000	2,50,000	31st Dec. 1888	
234	10	Bengal Stone Co., Ld.	15th Feb. 1879	80,000	80,000	31st ,, 1889	
235	11	Indian Patent Stone Co., Ld.	26th March 1890	57,000	.....	.....	
236	12	Arakan Petroleum Oil Co., Ld.	14th July 1883	4,00,000	3,76,830	31st Dec. 1888	
				63,91,000	59,01,830		

Ice Manufacturing Companies.

				Rs.	Rs.		
237	1	Bengal Ice Manufacturing Co., Ld. ...	9th July 1878	5,00,000	4,95,000	31st Dec. 1889	
238	2	Jamalpore Ice Manufacturing Co., Ld.	28th May 1879	10,000	7,120	31st ,, 1888	
239	3	Crystal Ice Supply Co., Ld.	14th Aug. 1883	2,00,000	2,00,000	31st ,, 1889	
				7,10,000	7,02,120		

Sugar Manufacturing Company.

				Rs.	Rs.		
240	1	Carew and Co., Ld.	11th June 1875	16,00,000	16,00,000	31st Dec. 1889	

Other Companies.

Serial number.	Number.	Names of Companies.	Date of registration.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	Remarks.
				Rs.	Rs.		
241	1	Kankuarrah Lime Factory Co., Ld. ...	6th June 1879	10,000	9,320	30th June 1889	
242	2	Bengal Telephone Co., Ld.	14th March 1883	10,00,000	8,80,000	31st Dec. ,,	
243	3	Goyana Boat Co., Ld.	1st July 1885	20,000	....	.....	
244	4	Bengal Science and Art Union Ld. ...	5th Aug. 1887	1,50,000	6,140	30th April 1889	
245	5	Mohes Chunder Land Reclamation, & Agricultural Improvement Co., Ld.	3rd Dec. 1889	2,50,000	.....	....	
246	6	Pioneer Glass Manufacturing Co., Ld....	22nd Feb. 1890	1,50,000	.....	.....	
247	7	East India Trade and Outfit Co. ,Ld. ...	16th July 1887	.....	.....	.....	Guaranteed.
248	8	European and Anglo-Indian Defence Association	20th Dec. 1889	.....	.....	.....	Guaranteed.
				15,80,000	8,95,460		

Nature of Companies.	Number.	Nominal capital.	Paid-up capital.
		Rs.	Rs.
I.—Banking and Insurance Companies	27	2,5 ,10,000	1,79,65,552
II.—Trading Companies	34	2,02,86,400	1,71,59,586
III.—Mills and Presses	32	2,34,45,000	1,96,73,575
IV.—Planting Companies	131	4,12,03,575	3,46,64,120
V.—Mining Companies	12	63,91,000	59,01,830
VI.—Ice Manufacturing Companies	3	7,10,000	7,02,120
VII.—Sugar Manufacturing Companies	1	16,00,000	16,00,000
VIII.—Other Companies	8	15,80,000	8,95,460
Total ...	248	12,04,25,975	9,85,62,243

P. GHOSHA,
Registrar of Companies under Act VI of 1882.

Calcutta,
The 29th April 1890.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 5th July, 1899.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
Burdwan Div. 1	Burdwan July 5, '90	0·05	Weather—cloudy and hot. Transplanting of *aus* and *amun* going on. Prospects fair. Prices of common rice :—
	Culna ...	0·44	
	Cutwa ...	2·22	
	Ranigunge ..	1·44	
			Srs.
			Burdwan ... ... 17 }
			Culna ... ... 13 }
			Cutwa ... ... 14½ } per rupee.
			Ranigunge ... ... 15½ }
2	Bankoora ,, 5, '90	1·50	Weather—clear and seasonable. Transplanting of early rice (*aus*, *kelas*, and *noali*) progressing vigorously, and that of *haimanti* begun in places. Sugarcane and other standing crops thriving. Common rice sells at 17½ seers per rupee at Sudder and 17 seers at Bishenpore.
3	Birbhum ,, 5, '90	1·36	Weather—seasonable. Sowing not yet completed, but going on under favourable circumstances. Price of rice 16 to 20 seers per rupee.
	Rampore Haut ...	1·45	
4	Midnapur ,, 5, '90	2·08	Weather—rainy and cloudy. Paddy still being sown and transplantation begun in some parts. Indigo and mulberry doing well. Prices of common rice :—
			Srs.
			Sudder ... ... 15 }
			Contai ... ... 18 }
			Tumlook ... ... 15 } per rupee.
			Ghatal ... ... 16 }
5	Hooghly ,, 5, '90	0·51	Weather—stormy. All crops doing well. Prices of common rice :—
	Serampore ...	2·45	
	Jehanabad ...	1·92	
			Srs.
			Sudder ... ... 13½ }
			Serampore ... ... 16 } per rupee.
			Jehanabad ... ... 16 }
	Howrah ,, 5, '90	0·87	Weather—cloudy with occasional showers. *Aus* and *amun* plants, jute, and sugarcane doing well. Some paddy seedlings on low lands damaged by excessive water. Price of coarse rice 14 to 15 seers per rupee.
	Uluberia ...	1·97	
	Central Districts.		
Presidency Div. 6	24-Perghs. July 5, '90	0·29	Weather—hot and cloudy with occasional showers. Ploughing continues and transplantation of *amun* proceeding. Prospects favourable. Price of rice stationary.
7	Nuddea ,, 5, '90	0·58	Weather—seasonable. Prospects of crops on the ground continue to be good. *Aus* and jute crops on chur lands in the Kushtea subdivision are being damaged by the rise of the rivers.
	Kushtea ...	0·61	
	Meherpore ...	1·08	
	Chuadanga ...	1·24	
	Ranaghat ...	0·70	
8	Khoolna ,, 5, '90	1·10	Weather—rainy. Prospects and condition of all crops continue good.
	Bagirhat ...	1·15	
	Satkhira ...	1·09	
9	Jessore ,, 5, '90	1·10	Weather—cloudy and rainy. Prospects generally good. Some damage apprehended in Narail from sudden rise of rivers.
	Narail ...	3·01	
	Bongong ...	0·30	
10	Moorshedabad ,, 5, '90	0·83	Weather—hot and cloudy. More rain wanted. A little damage done by overflow of the rivers, which are very high for this time. Prospects otherwise good.
Rajshahye Div. 11	Dinagepur ,, 5, '90	0·48	Weather—variable with occasional rain. Transplanting of *haimanti* paddy in progress. Prospects of standing crops good. Price of rice stationary.
	Thakurgaon ...	5·28	
12	Rajshahye ,, 5, '90	Figures not given	Weather—gloomy and sultry. Jute, *aus*, and *amun* all flourishing. Rain has done much good to standing crops. More rain wanted.
	Nattore ...	2·40	
	Nowgong ...	1·52	
13	Rungpur ,, 5, '90	1·51	Weather—warm and close with rain and sunshine alternately. Prospects of crops generally good. Some damage to *kaon* and paddy on chur lands by floods reported from Kurigram. Harvesting of *aus* in full swing. Transplanting of *amun* continues.
	Kurigram ...	0·63	
	Gaibanda ...	2·59	
	Nilphamari ...	3·74	
14	Bogra ,, 5, '90	2·77	Weather—seasonable. *Aus* crop forward, and harvest has begun in a few places with good outturn. *Aus* has been sown over about the normal area. Cutting and steeping of jute have also begun, and a bumper crop is expected. *Amun* promises well. Common rice selling at 18 and 19 seers per rupee.
	Sherpur ...	1·05	
	Nowkhilla ...	0·56	
15	Pubna ,, 5, '90	0·37	Weather—cool and cloudy. Jute is being harvested at Serajgunge. At Sudder jute was sown on 12 annas of the usual area and is expected to yield an outturn of 10 annas. Other crops doing well. Prices stationary.
16	Darjeeling ,, 5, '90	5·60	Weather—rainy with occasional breaks. Land is being ploughed for winter rice in the Terai. *Bhutia*, *marua*, *kagni*, *bhadoi*, *haimanti*, and Indian-corn progressing favourably.
	Silliguri ...	4·72	
17	Julpigoree ,, 5, '90	3·25	Weather—cloudy and sultry. *Bhadoi* paddy and jute doing well except in Mynaguri and Sudder thanas, where they are reported to be bad owing to excessive rain. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca July 5, '90	0·24	Weather—seasonable. Harvesting of *aus* paddy and jute continues. Prospect of crops good. Price of common rice 12 to 15 seers per rupee.
Dacca Divn. 19	Furreedpur „ 5, '90	0·67	Weather—rainy with occasional breaks. State and prospects of paddy, sugarcane, and jute fair. *Til* is being harvested. Rivers rising. Prices of common rice :— Sudder ... ... Srs. 14; Gopalgunge ... ... 15; Madaripur ... ... 14½ } per rupee.
Dacca Divn. 20	Backergunge „ 5, '90	3·69	Weather—seasonable. Prospect of crops good. Common rice selling at about 13 seers per rupee.
Dacca Divn. 21	Mymensingh „ 5, '90	0·57	Weather—cloudy and sultry. State of crops continues to be favourable. Coarse rice selling at 13½ seers per rupee.
Chittagong Divn. 22	Chittagong „ 5, '90	0·52	Weather—seasonable. Prospect of *pania aus* good. Common rice selling at 17 seers per rupee.
Chittagong Divn. 23	Noakholly „ 5, '90	2·06	Weather—rainy and cloudy; very close at times. State of *aus* crop good. Sowing of *amun* progressing, and prospects generally good. In Chagalnaya about 3 annas of both *amun* and *aus* have suffered from late flood.
Chittagong Divn. 24	Tipperah „ 5, '90	2·62	Weather—cool: seasonable. *Aus, amun*, and jute doing well. Prices stationary.
Chittagong Divn. 25	Chittagong Hill Tracts. „ 3, '90	1·41	Weather—unsettled; cloudy with light showers. Wind variable. *Jum* paddy and cotton plants progressing. Lands are being ploughed for late rice. Common rice is being sold at [illegible] seers 5 chittacks per rupee.
	Hill Tipperah ...	...	Report not received.
BEHAR.			
Patna Divn. 26	Patna „ 5, 90	1·42	Weather—hot. Harvesting of *cheena* completed. Sowing of *bhadoi* and paddy continues. Transplanting of *marua* still going on. Prices of food-grains almost stationary.
	Barh ...	4·40	
	Behar ...	0·40	
	Dinapore ...	1·25	
Patna Divn. 27	Gya „ 5, '90	0·79	Weather—hot and cloudy. *Marua, makai*, and paddy are being sown. Sugarcane doing well. Prices of food-grains stationary.
Patna Divn. 28	Shahabad „ 5, '90	1·22	Weather—damp and rather hot. Prospects good. *Bhadoi* sowings proceeding and paddy being transplanted.
	Buxar ...	2·53	
	Sasseram ...	1·22	
	Bhabuah ...	2·48	
Patna Divn. 29	Durbhunga „ 5, '90	1·51	Weather—cloudy and occasionally close. *Bhadoi* cultivation in progress. Prospects very satisfactory. More rain wanted for transplanting paddy and *marua* seedlings. Indigo manufacture going on. Prices remain almost stationary.
	Somastipur ...	2·07	
	Madhubani ...	3·74	
Patna Divn. 30	Muzufferpur „ 5, '90	0·70	The sunshine needed after the heavy and continuous rain of the previous week has been obtained, and the weather has been very favourable for agriculture. Prospects of all crops excellent. Manufacture of indigo proceeding, and a good outturn may be expected.
	Hajipur ...	0·30	
	Sitamarhi ...	1·98	
Patna Divn. 31	Sarun „ 5, '90	0·33	Weather—stormy and cloudy; one or two hot days. Prospects of crops very promising. Indigo benefited by rain. Paddy and *bhadoi* sowings almost completed.
Patna Divn. 32	Chumparun „ 5, '90	0·71	Weather—sultry and cloudy. Paddy transplantation progressing. *Makai* and *marua* being weeded; prospects very good Indigo *makai* going on. Prices almost stationary.
	Bettiah ...	2·43	
Bhagulpore Divn. 33	Monghyr „ 5, '90	0·60	Less rain and clearer sky than in the previous week. Sowing progressing favourably, and most of the usual area sown already.
	Begusarai ...	3·20	
	Jamui ...	4·05	
Bhagulpore Divn. 34	Bhagulpur „ 5, '90	0·55	Weather—cloudy with rain. Transplanting going on and prospects good.
	Banka ..	1·38	
	Mudhepura ...	0·98	
	Soopool ...	2·71	
Bhagulpore Divn. 35	Purneah „ 5, '90	0·90	Weather—cloudy and sultry. *Bhadoi* rice being weeded. Indigo manufacture going on. *Aghani* rice being transplanted. All crops, including jute, doing well.
	Kishengunge ...	5·36	
	Arrareah ...	2·10	
Bhagulpore Divn. 36	Maldah „ 5, '90	0·81	Weather—hot and bright with occasional showers. *Bhadoi* and *haimanti* sowings progressing favourably. Manufacture of indigo commenced. Prices of rice stationary.
	Chanchal ...	2·69	
	Shibgunge ...	1·68	
	Gajole ...	2·26	
Bhagulpore Divn. 37	Santhal Pergns. „ 5, '90	0·98	Weather—seasonable. Prospects excellent. *Makai* is being weeded. Some kinds of paddy are being transplanted, while other kinds are being sown.
	Deoghur ...	2·24	
	Godda ...	2·07	
	Jamtara ...	0·88	
	Pakour ...	3·25	
	Rajmehal ...	3·46	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Dists.	38	Cuttack July 5, '90	7·83	Weather—seasonable. Cotton is being gathered. Sugarcane doing well. Prospects continue good.
	39	Pooree „ 3, '90	9·10	Weather—stormy. *Sarad* rice sowing retarded owing to excessive rainfall. *Beali* crop is being weeded. Price of common rice stationary.
	40	Balasore „ 5, '90	8·39	Weather—stormy. Excessive rainfall has caused some damage to young rice in Soro thana; elsewhere prospects are good. Number of coolies on relief-works 67.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Dists.	41	Hazaribagh July 5, '90	3·24	Weather—seasonable. Sowings of paddy and *bhadoi* crops completed in many places and well advanced in other places. All crops doing well. Rice selling at from 15 to 18 seers per rupee.
	42	Lohardugga „ 5, '90	1·91	Weather—warm and cloudy. Sowing of winter rice going on briskly. Prospects of *bhadoi* crops good. Sugarcane in Palamow continues good. Prices steady.
		Palamow (up to 30th June)	1·81	
	43	Singbhoom July 5, '90	4·75	Weather—seasonable; a break in the rain just now. Damage is said to have been caused to the paddy crop in parts of Bharagora outpost, pergunnah Dhalbhoom; from elsewhere the reports are satisfactory. Price of rice ranges from 18 to 24 seers per rupee.
	44	Manbhoom „ 5, '90	3·10	Weather—seasonable. The late heavy rain has done much good. There is now a favourable break. Paddy sowing nearing completion. Prospects generally good.
		Govindpore ...	2·8	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 8th July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (ret.., of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																		
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
	BENGAL.																			
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	
1	Burdwan ...	14 0	14 0	12 12	...	...	...	12 0	12 0	11 4	15 9	15 9	14 1	...	...	...				
2	Bankoora ...	14 8	14 8	13 12	20 0	20 0	17 0	16 0	16 0	14 12	17 8	18 0	17 8	...	...	...				
3	Beerbhoom ...	16 8	16 8	15 0	...	...	...	13 8	13 8	12 0	16 0	16 0	13 8	...	...	...				
4	Midnapore ...	13 0	14 0	12 0	...	...	...	13 0	13 12	12 0	15 10	16 0	15 0	...	...	...				
5	Hooghly ...	13 0	13 0	13 0	...	...	...	8 0	8 0	10 0	13 0	13 0	12 8	...	...	...				
	Howrah ...	...	...	...	...	...	...	11 8	11 4	10 0	14 8	14 0	13 8	...	...	...				
	Central Districts.																			
	Calcutta ...	13 6	13 8	12 11	16 8	16 8	15 15	8 11	8 15	8 8	13 0	12 14	12 10	13 0	13 11	...				
6	24-Pergunnahs	15 0	15 0	13 0	17 0	17 0	16 0	8 0	8 0	7 0	14 0	14 0	13 0	...	...	...				
7	Nuddea ...	15 0	15 0	15 0	20 0	...	17 12	11 7	11 13	12 0	12 14	12 14	13 7	...	...	...				
8	Khoolna ...	...	...	...	...	...	...	12 8	13 0	10 8	17 0	15 0	13 0	...	...	...				
9	Jessore ...	13 4	13 0	13 4	...	...	...	11 0	11 0	11 0	14 8	15 0	13 0	...	...	...				
10	Moorshedabad	16 0	16 0	14 0	...	..	...	11 0	11 0	11 0	15 0	15 0	14 0	...	...	...				
11	Dinagepore	15 8	19 4	13 0	16 0	16 0	...	13 4	13 8	11 4	15 9	17 0	13 4	...	...	...				
12	Rajshahye ...	16 8	16 8	15 12	19 8	24 0	18 12	12 12	12 12	10 8	13 8	13 11	12 12	...	...	...				
13	Rungpore ...	13 5	13 5	14 8	...	...	...	9 6	9 6	10 5	13 5	13 5	14 8	...	...	...				
14	Bogra ...	15 12	15 0	13 8	...	...	...	12 0	12 0	12 0	17 4	16 8	15 0	...	...	...				
15	Pubna ...	19 0	18 12	16 8	...	..	...	7 8	7 8	7 8	14 4	15 0	13 14	...	...	...				
16	Darjeeling ...	10 0	10 0	9 0	9 0	9 0	10 0	5 0	5 0	6 0	11 0	12 0	10 0	...	...	...				
17	Julpigoree ...	13 0	13 0	10 0	16 0	20 0	16 0	8 0	8 0	8 0	14 0	16 0	14 0	...	...	...				
	Eastern Districts.																			
18	Dacca ...	13 0	13 0	13 0	16 0	16 0	26 0	12 0	12 0	12 0	13 0	13 0	13 0	...	...	...				
19	Furreedpore ...	15 0	14 0	16 0	20 0	18 0	...	10 0	10 0	8 0	15 0	14 0	12 0	...	...	...				
20	Backergunge ...	...	...	...	...	...	...	12 5	12 8	11 0	14 0	13 0	12 0	...	...	...				
21	Mymensingh ...	11 8	11 8	10 0	...	...	...	10 4	11 0	13 0	13 8	13 12	14 0	...	...	...				

A In subdivisions retail prices of salt per rupee are :—Cuina 10 seers, Cutwa 10 seers 6 chittacks, and Ranaegunge 10½ seers.
B At Rampore Haut retail price of salt 10 seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 9 seers, Tumlook 8 seers, and Ghatal 10½ seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 11 seers and Jehanabad 10 seers 2 chittaks.
D1 In subdivisions retail prices of salt per rupee are :—Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers Barrackpore 9 seers 8 chittacks, Dum-Dum 10 seers.
E In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpore 10 seers, Chooadanga 9½ seers, and Ranaghat 9 seers 2 chittacks.
F In subdivisions retail prices of salt per rupee are :—Satkhira 9 seers 13 chittacks and Bagirhat 8 seers.
G In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 9½ seers, Narail 9½ seers, and Bongong 10 seers.
G1 In subdivisions retail prices of salt per rupee are :—Lalbagh 9 seers, Jungipore 10 seers, and Kandi 12 seers.

al on the 30th June, 1890.

S OF 80 TOLAHS.

A OR CUMBU. (*Holcus typhoideum.*)		MADUA OR RAGI. (*Eleusine Coracana.*)			KANGNI O KAKUN, ITALIAN MILLET. (*Setaria italica.*)			GRAM, CHANA, CHENOLA, KADALAY OR SUNAGA. (*Cicer arietinum.*)		
Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...	...	...	19 0	19 0	17 0
...	...	...	...	...	...	...	...	17 8	17 8	15 0
...	...	...	...	...	...	...	...	18 8	18 0	16 8
...	...	...	...	...	...	...	...	15 0	15 8	15 0
...	...	...	...	...	...	...	...	16 0	16 0	16 0
...	...	...	...	...	...	...	...	20 0	17 12	17 0
12 4	12 4	...	...	..	9 0	8 7	17 12	17 7	17 9	15 2
...	...	...	...	...	6 8	6 8	12 0	18 12	18 12	16 0
...	...	...	...	...	...	...	...	20 0	20 10	16 0
...	...	...	...	...	...	...	...	12 8	14 0	13 0
...	...	...	...	...	...	...	...	16 0	16 0	16 0
...	...	...	...	...	...	...	...	21 0	21 0	18 0
...	...	...	...	...	...	...	...	18 0	16 0	16 0
...	...	...	...	...	...	...	...	21 0	21 0	18 12
...	...	...	...	...	...	...	...	12 4	12 4	13 0
...	...	...	...	...	...	...	...	15 12	15 0	16 8
...	...	...	...	...	...	...	...	18 12	18 12	18 12
...	...	...	13 0	13 0	...	...	...	10 0	11 0	10 0
...	...	...	...	...	...	...	...	16 0	16 0	16 0
...	...	...	...	...	...	...	...	14 0	14 0	14 0
...	...	...	...	...	...	...	...	16 0	15 0	16 0
...	...	...	...	...	...	...	...	15 4	15 4	14 12
...	...	...	...	...	...	...	...	13 0	13 0	13 0

S PER MONTH.

: HORSE-KEEPER.		COMMON MASON, CARPENTER, OR BLACKSMITH.			DISTRICTS.
...ceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
					BENGAL.
					Western Districts.
6 0 to 7 0	6 0 to 7 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Burdwan.
6 0 to 9 0	6 0 to 9 0	9 0 to 16 0	7 8 to 16 0	9 0 to 16 0	Bankoora.
6 0	6 0	12 0	7 8 to 10 0	13 8	Beerbhoom.
6 0 to 7 0	6 0 to 7 0	7 8 to 10 0	7 4 to 10 0	7 8 to 10 0	Midnapore.
6 0 to 7 0	6 0 to 7 0	8 0 to 40 0	8 0 to 30 0	10 0 to 30 0	Hooghly.
...	...	...	...	...	Howrah.
					Central Districts.
6 0	6 0	15 0	15 0	15 0	Calcutta.
6 0 to 7 0	6 0 to 7 0	15 0 to 20 0	15 0 to 25 0	15 0 to 25 0	24-Pergunnahs.
6 0	6 0	7 8 to 15 0	7 8 to 15 0	7 8 to 15 0	Nudden.
7 0 to 8 0	7 0 to 8 0	12 0 to 30 0	12 0 to 25 0	12 0 to 30 0	Khoolna.
4 0 to 8 0	4 0 to 8 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Jessore.
5 0	5 0	7 8 to 10 0	5 0 to 20 0	7 8 to 10 0	Moorshedabad.
3 0 to 5 0	3 0 to 5 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Dinagepore.
5 0 to 6 0	5 0 to 6 0	7 0 to 16 0	8 0 to 16 0	8 0 to 16 0	Rajshahye.
...	...	...	...	...	Rungpore.
6 0 to 10 0	6 0 to 10 0	10 0 to 20 0	10 0 to 20 0	10 0 to 20 0	Bogra.
5 0 to 6 0	5 0 to 6 0	7 0 to 20 0	7 0 to 20 0	7 0 to 20 0	Pubna.
...	...	...	...	...	Darjeeling.
6 0	6 0	15 0 to 20 0	15 0 to 20 0	15 0 to 20 0	Julpigoree.
					Eastern Districts.
...	...	...	...	...	Dacca.
...	...	...	...	...	Furreedpore.
6 0 to 8 0	6 0 to 8 0	12 0 to 15 0	10 0 to 15 0	12 0 to 15 0	Backergunge.
6 0 to 8 0	6 0 to 8 0	12 0 to 30 0	12 0 to 30 0	12 0 to 30 0	Mymensingh.

...seers, and Kurigram 8 seers.

...begunge 8 seers 14 chittacks, and Mauda...

G In subdivisional retail prices of salt per rupee are :—Patuakhali 9 seers, Perozpore 9 seers, and Bhola 8 seers.
P In subdivisional retail prices of salt per rupee are :—Khulnagunge 8 seers, Tangail 10 seers, Sirajgunge 10 seers, Sherpore 8 seers, and Jamalpore 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																		
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 0	12 0	10 0	15 8	15 8	12 0	...	...	...
23	Noakholly ...	...	...	...	...	...	...	13 8	13 8	12 0	14 0	14 0	13 0	...	...	...
24	Tipperah ...	13 5	13 5	12 0	...	...	...	10 0	10 0	1 0	13 5	13 5	14 0	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	11 6	11 4	9 6	12 5	12 8	10 0	...	...	...
	Hill Tipperah	6 0	6 0	6 0	...	...	...	8 0	8 0	8 0	13 0	12 0	14 0	...	...	...
	BEHAR.															
26	Patna ...	18 4	Red. 17 12	...	24 0	24 0	20 0	10 8	10 8	10 0	16 12	17 2	13 8	21 0	22 0	19 8
		17 4	White. 16 12	16 8												
27	Gya ...	16 0	16 8	15 8	21 0	23 8	20 8	9 8	11 8	8 4	15 8	16 0	12 8	...	...	...
28	Shahabad ...	15 0	15 0	14 0	20 0	22 0	19 0	8 0	8 0	8 8	14 0	15 0	12 0	18 0	18 0	...
29	Durbhunga ...	15 6	15 6	14 13	21 0	20 14	18 4	13 3	12 0	10 4	15 6	15 6	11 6	...	...	...
30	Mozufferpore ...	17 8	17 0	13 0	20 0	20 0	16 0	9 0	9 0	9 0	15 0	16 0	12 0	...	...	...
31	Sarun ...	16 4	16 4	14 4	21 8	21 0	19 0	8 8	8 12	8 8	14 0	13 14	11 13	...	...	...
32	Chumparun ...	18 0	16 0	13 0	24 0	24 0	17 0	8 13	8 8	8 0	13 0	15 0	11 8	...	...	...
33	Monghyr ...	18 14	18 2	16 4	23 1	21 0	18 14	11 8	14 11	10 8	15 12	16 0	12 1	16 12	...	...
34	Bhagulpore ...	17 11	17 11	15 12	22 11	21 7	17 10	Old. 10 1	Old. 10 1	11 6	Old. 13 14	Old. 13 14	12 8	...	...	...
								New. 13 4	New. 13 14		New. 17 0	New. 16 6	...			
35	Purneah ...	18 0	18 0	14 0	...	...	...	15 0	17 0	11 0	16 0	18 0	13 0	...	...	...
36	Maldah ...	18 0	18 12	15 0	...	...	...	10 0	9 0	8 0	14 0	14 0	12 8	...	...	...
37	Sonthal Perghs.	14 0	13 0	12 8	...	...	...	13 0	13 0	12 0	16 0	16 0	14 0	...	...	...
	ORISSA.															
38	Cuttack ...	10 8	10 8	9 13	...	...	...	10 8	10 8	10 8	17 1*	17 1	13 2	...	...	...
39	Pooree ...	10 8	10 8	8 5	...	...	...	13 2	17 1	11 3	21 0	21 0	14 7	...	...	...
40	Balasore ...	15 0	15 0	16 0	18 0	18 0	13 0	11 0	12 0	13 0	16 0	17 0	15 0	...	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	14 8 to 15 0	14 8	13 0	18 0	18 0	14 0	9 0	9 0	8 0	16 0	16 0	14 0	...	...	...
42	Lohardugga ...	14 4	Red. 14 0	11 0	...	...	20 0	...	15 0	12 8	Coarse. 18 0	18 0	15 0	...	...	...
		8 0	White. 8 8								Ordinary. 16 0	...	...			
43	Singbhoom ...	12 0	12 0	10 0	14 0	14 0	14 0	12 0	16 0	12 0	18 0	20 0	16 0	...	...	...
44	Manbhoom ...	14 0	14 0	12 0	...	...	...	13 0	13 0	12 8	19 0	20 0	17 0	...	...	...

* Price of common rice at Jajpore 19 seers 11 chittacks and Kendrapara 23 seers 10 chittacks per rupee.

P1 At Cox's Bazar retail price of salt 8 seers per rupee.

P2 At Feni Haut retail price of salt 8 seers per rupee.

Q In subdivisions retail prices of salt per rupee are :—Burdr 10 seers, Sasseram 10½ seers, and Bhabuah 9 seers.

R In subdivisions retail prices of salt per rupee are :—Samastipore 11 seers and Madhubani 10 seers.

S In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

CALCUTTA,
The 8th July, 1890.

...ERS OF 80 TOLAHS.

...	BAJRA OR CUMBU (Penicillum typhoideum.)		MARUA OR RAGI. (Eleusine Coracana.)			KANGNI OR KUNI, ITALIAN MILLET. (Setaria italica.)			GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (Cicer arietinum.)		
...	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	... year.	Present return.	Next preceding return.	Corresponding return of last year.
Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...	...	...	...	12	12 12	11 8
...	...	...	...	...	...	...	...	...	0	12 0	12 0
...	...	...	...	...	..	...	...	...	10½	10 10½	16 0
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	12 0	10 0
...	...	...	25 0	25 0	...	19 0	20 0	10	22 0	21 8	
...	...	...	...	...	..	15 0	15 0	11 0	[illegible] 0	18 0	
...	...	...	...	...	...	...	...	...	0	19 0	
...	...	...	25 0	23 0	17 2	...	...	...	0	18 4½	
...	...	...	...	...	..	...	...	...	0	16 0	
...	...	...	22 0	22 0	20 8	16 0	16 0	11 0	[illegible]	18 12	
...	...	...	22 0	...	16 0	...	...	...	[illegible]	16 8	
...	...	...	...	...	...	14 11	..	10 0	[illegible]	20 0	
...	...	...	...	...	...	...	...	...	[illegible]	7 10	
...	...	...	...	...	...	...	...	...	23 0		
...	...	...	...	...	...	...	...	...	21 0		
...	...	...	...	...	...	...	...	...	17 0		
...	...	...	...	...	...	...	...	...	14 1		
...	...	...	...	...	...	...	...	...	14		
...	...	...	...	...	...	...	...	...	14 (		
...	...	..	27 0	26 0	20 0	...	...	...	16 [illegible]		
...	...	...	37 8	36 0	26 8	...	...	...	14 0		
...	...	...	...	...	...	...	...	...	12 0		
...	...	...	...	...	...	...	...	...	17 0		

June 1890—(concluded).

...GES PER MONTH.

		...OR HORSE-KEEPER.		COMMON MASON, CARPENTER, OR BLACKSMITH.			DISTRICTS.
		Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
	A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
							Eastern Districts—concluded.
	0	8 0	8 0	12 0	9 8 to 12 0	9 4 to 12 0	Chittagong
	0 ... 0	5 0 to 7 0	5 0 to 6 0	5 0 to 14 0	8 0 to 16 0	8 0 to 14 0	Noakholly
	0 ... 0	7 0 to 8 0	7 0 to 8 0	8 0 to 15 0	8 0 to 15 0	8 0 to 15 0	Tipperah
	...ot procurable.			20 0 to 30 0	20 0 to 30 0	20 0 to 30 0	Chittagong Hill Tracts.
	0	6 0	6 0	15 [illegible]	15 0	15 0	Hill Tipperah.
							BEHAR.
	8 to 0	4 8 to 5 0	4 8 to 5 0	7 0 to 8 0	7 0 to 8 0	7 0 to 8 0	Patna.
	0 to 5 0	3 0 to 5 0	3 0 to 5 0	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0	Gya.
	...	..	...	...	to	...	Shahabad
	3 0 to 4 0	3 0 to 5 0	3 0 to 5 0	3 12 to 9 6	3 12 to 9 0	3 12 to 9 8	Durbhunga
	3 0 to 4 8	3 0 to 4 0	4 0 to 5 0	5 10 to 11 4	7 8 to 9 6	5 0 to [illegible] 0	Mozufferpore.
	4 0 to 7 0	4 0 to 7 0	4 0 to 7 0	6 9 to 10 0	6 9 to 10 0	6 9 to 10 0	Sarun.
	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	5 10 to 9 6	5 10 to 9 6	5 10 to 9 6	Chumparun.
) ...)	3 0 to 5 0	3 0 to 4 [illegible]	3 0 to 5 0	5 10 to 15 0	6 0 to 8 0	5 0 to 12 0	Monghyr.
	..	4 0 to 5 0	3 8 to 6 0	7 8 to 9 6	7 8 to 11 4	7 8 to 11 4	Bhagulpore.
)	4 0 to 5 0	4 0 to 5 0	4 0 to 5 0	7 0 to 16 0	7 0 to 16 0	7 0 to 16 0	Purnean.
8	5 0	5 0	5 0 to 6 0	8 0 to 12 0	8 0 to 12 0	10 0 to 15 0	Maldah
	...	...	...	...	...	...	Sonthal Perghs.
							ORISSA.
0	4 8	4 8	4 8	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8	Cuttack.
..	...	...	...	...	...	...	Pooree.
0 to 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	7 0 to 10 0	7 [illegible] to 10 0	7 0 to 10 0	Balasore.
							CHOTA NAGPORE.
							South-West Frontier Agency
12	5 0	4 0 to 5	5 ..	8 0	7 8	8 0	Hazaribagh.
4½ to 12	3 8 to 5 0	3 8 to 6 0	3 8 to 6 0	3 12 to 9 6	4 11 to 14 1	4 11 to 14 1	Lohardugga.
0	4 0	4 0	4 0	12 0	12 0	12 0	Singbhoom.
11	...	5 0	5 0	9 6 to 8 12	13 2 to 15 0	13 2 to 5 0	Manbhoom.

T At Bettiah retail price of salt 9½ seers per rupee.
U In subdivisions retail prices of salt per rupee are :—Beguserai 9½ seers and Jamui 9 seers.
V In subdivisions retail prices of salt per rupee are :—Kishengunge 8 seers and Arrareah (Raneegunge) 10 seers.
W At Bhudruck retail price of salt 8 seers per rupee.
X At Govindpore retail price of salt 9 seers per rupee.

Published for general information

P. NOLAN,
Secy. to the Govt. of Bengal.

the undermentioned Marts of Bengal on the 30th June, 1890.

RAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum.*)			INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR. CAJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
0 11	2 0 6	2 6 3	1 15 7	2 1 0	...	2 3 2	2 3 2	2 4 6	0 5 9	0 5 9	0 5 6	3 9 6	3 9 5	3 7 10	Calcutta.
8 0	2 8 0	2 12 0	...	...	...	...	...	...	...	...	...	3 12 0	3 13 0	4 0 0	Serajgunge.
12 0	2 12 0	2 12 0	...	...	...	3 0 0	3 0 0	2 6 0	0 4 0	0 4 0	0 4 0	4 2 0	4 0 0	3 15 0	Dacca.
8 0	3 4 0	2 8 0	...	...	...	3 12 0	3 14 0	3 12 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Naraingunge
2 0	3 2 0	3 6 0	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 14 0	Chittagong.
13 0	1 12 6	1 13 0	...	..	6	1 10 3	1 10 3	1 12 0	0 5 6	0 5 6	0 5 0	3 13 0	3 13 0	3 12 0	Patna.
12 0	2 12 0	2 12 0	...			...	...	..	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 0 0	Balasore.
...	.	.				.			...	...	...	3 8 0	3 8 0	3 12 0	Pooree.
10 0	(Kalai). 2 10 0	2 0 0	...	.	.	2 2 0	2 2 0	3 0 0	0 8 0	0 8 0	0 8 0	4 7 0	4 7 0	4 7 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

Names of Marts.	Stock in hand as compiled on—												
	1st week of July 1889.	1st week of August 1889.	1st week of Sept. 1889.	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Balimhatta	8,73,000	7,32,700	6 62,000	5,46,000	4,54,000	2,96,500	3,00 000	5,48,000	9,31,100	15,22,500	10,94,000	9,85,500	7,54,000
Colliedanga	86,500	78,700	74,400	71,900	67,400	55,400	63,400	53,900	1,02,500	1,13,500	86,600	84,700	74,900
Chitpore, Golabarce, Cromertooly, Saikhola, and Cuipy Ghât.	6,85,400	6,97,700	5,76,300	6,74 100	6 33,300	5,86 000	6,00,400	5,98,900	5,83,800	5,91,600	5,37,300	4,79,200	4,96,100
Entaurashatta, Poota, and Jorabagan.	2,000	3,000	4,000	5,000	8 000	3,000	4 000	5,000	4 000	3,000	4,000	3,500	4,000
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,03,700	1,10,700	72,500	64 500	65 200	68,100	82,750	98,100	1,21,500	1,26,550	1,32,900	1,19,450	1,04,700
21 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,120 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Shuddreesur, and Chandernagore.	19,996	18,117	14,265	14,362	13,410	14,020	28,425	19,606	33,469	31,225	19,369	22,762	45,879
Total ...	22,60,596	21,30,917	18,93,465	18,25,932	17,31,310	15,13,060	15,68,975	18,43,506	22,66,369	28,77,375	23,64,669	21,85,112	19,69,579
On Railway premises on both sides of the river.	7,730 (on 3rd July 1889.)	4,179 (on 3rd Aug. 1889.)	9,606 (on 3rd Sept. 1889.)	8,208 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd Dec. 1889.)	23,007 (on 3rd Jan. 1890.)	26,935 (on 3rd Feb. 1890.)	47,968 (on 3rd Mar. 1890.)	24,996 (on 3rd Apl. 1890.)	24,633 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,533 (on 3rd July 1890.)
On boats unloaded ... By Port Commissioners' returns.	25,019 (1st to 3rd July 1889.)	1,32,232 (1st to 3rd Aug. 1889.)	25,334 (1st to 3rd Sept. 1889.)	17,852 (5th to 7th Oct. 1889.)	21,324 (1st to 3rd Nov. 1889.)	20,650 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb. 1890.)	56,599 (1st to 3rd Mar. 1890.)	37,745 (1st to 3rd Apl. 1890.)	30,197 (1st to 3rd May 1890.)	24,756 (1st to 3rd June 1890.)	23,351 (1st to 3rd July 1890.)
By Canal returns	27,106 (1st to 3rd July 1889.)	29,345 (1st to 3rd Aug. 1889.)	19,881 (1st to 3rd Sept. 1889.)	45,922 (5th to 7th Oct. 1889.)	14,718 (1st to 3rd Nov. 1889.)	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	58,619 (1st to 3rd Apl. 1890.)	23,975 (1st to 3rd May 1890.)	23,957 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)
Grand total of Stocks ...	23,20,353	22,96,673	19,48,282	18,97,914	17,81,363	15,49,242	17,90,438	21,81,281	25,25,503	29,98,735	24,43,474	22,45,752	20,30,831
Probable stock available for exportation by sea.	12½ lakhs	12½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	5 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs	14 lakhs	12 lakhs	9½ lakhs

STATISTICAL DEPARTMENT,
The 7th July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of June 1890.

		Date.	Hour.
	Inches.		
The mean pressure of the month	29·550		
The average pressure of June from 24 years' registers ...	29·549		
The highest pressure in the month	29·704	3rd	10
The lowest pressure in the month	29·378	23rd	16
The range of pressure	0·326		
	Hours.		
The total number of hours of bright sunshine during the month	101·7		
The maximum possible number of hours of sunshine ...	403·4		
	°		
The mean temperature of the month	84·4		
The average temperature of June from 24 years' registers	85·0		
The highest temperature in the month	95·7	1st.	
The lowest temperature in the month	71·4	6th.	
The range of temperature during the month	24·3		
The mean daily range of temperature	11·7		
The greatest range of temperature in one day	18·8	2nd.	
	Per cent.		
The mean humidity of the month	84		
The average humidity of June from 24 years' registers ...	81		
	Inches.		
The mean vapour pressure of the month	0·988		
The average vapour pressure of June from 9 years' registers ...	0·998		
The mean cloud proportion of the month	6·94		
The average cloud proportion of June from 13 years' registers	7·13		
The total rainfall of the month	13·40		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	13·12		
The average fall of June from 48 years' registers	12·08		
The greatest fall in 24 hours	4·28	22nd.	
	Days.		
The number of rainy days in the month	21		
The average number of rainy days in May from 24 years' registers	19		
	°		
The mean maximum equilibrium temperature of solar radiation during the month	143·7		
The mean difference of sun and air temperatures	53·9		
The greatest sun temperature	156·3	28th.	
The greatest excess of sun over air temperature	66·5	28th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	76·5		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	1·6		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	3·3	5th.	
	Miles.		
The mean movement of the wind per day	145·0		
The greatest movement of the wind in one day	390·0	24th.	
The greatest movement of the wind in one hour	24·0	24th	11 to noon.

The number of hours with winds from each of the 8 points—

N. 2, N.E. 11, E. 69, S.E. 129, S. 263, S.W. 175, W. 18, N.W. 6, Calm 47.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0·5 higher; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 7th July 1890.

Meteorological Report of the Province of Beng

...r the week ending Friday, the 4th of July 1890.

Meteorological Division.	District.	Representative station.	Station Observations. Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Temperature. Mean, 8 A.M.	Average amount of cloud at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	District observations. Rainfall. Of week. Mean for district.	Of week. Normal mean.	Since 1st of June. Mean for district.	Since 1st of June. Normal mean.	Since 1st of June. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
Orissa.	Pooree	Pooree Gopalpore	29·583 29·597	29·595 29·588	— —·022	SW SSW	27·4 37·0	89·7 87·2	29th June 4th July	75·1 75·8	30th June 2nd July	86·5 83·7	78·8 78·2	82·7 81·0	— —3·7	81 82	6·1 5·7	* 9·10 4·82			3·08		9·65			11·36			3·8	Pooree Gopalpore False Point	Pooree	Orissa.
		False Point	29·564	29·588	—·034	Variable	37·0	90·0	28th June, 4th July	75·1	29th June	87·0	77·6	82·6	—1·2	85	7·7	4·67														
	Cuttack	Cuttack	29·524	29·605	—·022	Westerly	112·4	93·9	23th June	73·3	2nd July	88·6	77·0	82·8	—3·5	81	7·7	6·06			3·25		10·82			12·89			3·7	Cuttack	Cuttack	
	Balasore	Balasore	29·533	29·601	—·021	Variable	189·7	91·9	28th ,,	80·7	3rd ,,	89·0	82·6	85·8	+1·6	82	3·6	8·44			2·34		9·72			12·29			3·6	Balasore	Balasore	
South-West Bengal.	South-West Midnapore South 24-Pergunnahs	Sangor Island	29·567	29·593	—·022	SW	452·0	90·2	1st July	78·5	1st ,,	88·3	80·5	84·4	—0·2	84	8·6	1·29	1·00	2·92	10·67	11·61	—0·94	17·64	13·85	+3·79	3·7	4·2	Sangor Island	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
	Midnapore	Midnapore	29·455	29·605	—·010	S	334·8	92·3	28, 29 June & 4 July	77·1	29th June, 3rd July	90·0	78·5	84·3	—0·9	82	3·6	2·15	2·04	2·78	15·75	10·98	+4·77	21·95	13 02	+8·93	5·0	4·0	Midnapore	Midnapore	
	24-Pergunnahs Howrah Hooghly	Calcutta	29·585	29·606	—·002	Variable	123·	90·5	28th June	76·7	29th June	88·9	78·5	83·7	+0·1	83	7·6	0·30	1·11	2·24	15·39	11 18	+ 4·21	20·03	13·85	+0·18	3·7	4·5	Calcutta	24-Pergunnahs Howrah Hooghly	
	Burdwan	Burdwan	29·497	29·507	—·013	Variable	122·1	92·6	4th July	76·9	28th ,,	90 7	79 4	85·0	—0 3	83	7·7	3·22	1·64	1·62	20·42	9·81	+10 61	23 25	12·43	+10·82	3·7	3·3	Burdwan	Burdwan	
	Bankoora	Bankoora	29·294	29·592	+·003	Variable	141·	93·1	4th ,,	75·6	3rd July	89·7	78·3	84·0	—	83	8·0	1·55	2·21	2·85	15·43	11·86	+3·57	19·49	13·98	+5·51	3·8	4·3	Bankoora	Bankoora	
	Beerbhoom West Burdwan	Ranegunge	29·286	29·619	+·014	Variable	115·9	93·5	4th ,,	76·8	28th & 29th June	90·1	78·4	84·3	—1·7	83	6·0	1·44	1·61	2·04	17·64	11·18	+6·46	19·41	13·18	+6·23	3·5	4·3	Ranegunge	Beerbhoom West Burdwan	
	Moorshedabad	Berhampore	29·545	29·612	—·004	E	128·6	92·7	2nd ,,	77 3	3rd July	90 5	78 9	84·7	+0·1	83	8·7	0·83	1·10	2·36	12·10	10·81	+1·29	14·68	13·93	+0·75	4·5	4·3	Berhampore	Moorshedabad	
	Nuddea	Krishnaghur	29·568	29·614	+·008	ESE	178·6	91·8	30th June, 2 & 4 July	78·2	29, 30 June & 2nd July	90·5	79·1	84·8	—0·4	83	7·7	0·57	0·87	1·78	12·05	10·89	+1·76	16 44	14·39	+2·05	2·6	4·0	Krishnaghur	Nuddea	
	Jessore Khoolna	Jessore	29·601	29·634	+·002	SE	140·0	93·8	28th June	77 4	1st ,,	90 7	79 5	85·1	0	83	7·9	1·02	1·12	2·25	15 35	13·36	+1·79	20·01	16·93	+3·08	3·6	4·3	Jessore	Jessore Khoolna	
East Bengal.	Chittagong	Chittagong	29·593	29·682	—·016	SE	123·8	91·2	2nd July	76 0	30 June & 3rd July	87·3	77·1	82 3	+1·2	83	7 4	0·55		6 23		32·80			38·13			5·6	Chittagong	Chittagong	East Bengal.
	Chittagong Hill Tracts	Demagiri						Observations not received.												3 35		21·52			25·79			5·6	Demagiri	Chittagong Hill Tracts	
	Backergunge	Barrisal	29·627	29·639	—·016	SE	139 0	90·8*	28th June*	71·9*	1st July*	87·5*	77 5*	82·7*	+0·4*	83	7·9	2·58	2·06	3·89	17·61	21·54	—3·93	25·67	25·43	—1·76	4·8	5 3	Barrisal	Backergunge	
	Noakholly	Noakholly	29·626	29·670	—·006	E	197·5	88·0	2nd July	76·8	3rd ,,	86·6	77·5	82·1	+0·2	84	1·9	1·47	1·89	4 95	21·08	30 29	—9·21	29·09	25·06	—5·97	5 0	5·6	Noakholly	Noakholly	
	Furreedpore	Furreedpore	29·612	29·652	+·011	SE	157·6	91 0	30th June	78·4	28th June & 2nd July	88 4	79 1	83·8	+0·4	83	6·4	0·33	1·00	2·33	9·08	13·64	—3·44	15·22	17·05	—4·78	4·0	4·1	Furreedpore	Furreedpore	
	Dacca	Dacca	29 615	29·638	—·010	South-easterly	191·0	91·1	2nd July	76·7	1st ,,	89·2	78·5	83·9	0	83	7·9	0·22	1·70	2·95	13·56	14·03	—1·37	22·23	18·99	+3·24	3·0	4·7	Dacca	Dacca	
	Commillah	Commillah	29·617	29·653	—·011	SE	137 8	91·3	2nd ,,	75·3	1st ,,	89 2	76·5	83·0	+0·5	83	4·3	2·87	2·59	2·56	16·97	17·06	— 0·09	23·16	22·20	+0·96	4·0	4·7	Commillah	Tipperah	
	Mymensingh	Mymensingh	29·585	29·643	—·013	ENE	124·5	91·7	2nd ,,	75·6	28th June	88·2	78 6	83 4	+1 4	83	7·9	0·75	0·87	2·85	20·07	18 89	+1·18	27·04	23·84	+3·20	3·0	4 5	Mymensingh	Mymensingh	
North Bengal.	Bogra	Bogra	29·559	29·621	+·008	E	112·6	93·8	2nd ,,	78·1	28th & 30th June	89·9	79·5	84·7	+1·1	83	6·4	0·62	0·62	2·21	10·51	14·29	+2·22	20·88	19·88	+2·00	1·8	4·4	Bogra	Bogra	North Bengal.
	Pubna	Serajgunge	29·590	29·637	—·030	SE	82·5	92·7	2nd ,,	77·8	28th ,,	89·0	79·1	84·0	—0·6	83	7·1	0·61	0·49	2·18	10·74	12·48	—1·74	16 80	16·28	+0·61	3·0	4·0	Serajgunge	Pubna	
	Rajshahye	Rampore Beauleah. Maldah	29 550	29·620	+·010	SE	131·3	91·8	2nd ,,	78 1	29th ,,	89 4	79 4	84 4	+0 1	83	3·7	1·15	0·04	2·82	18·14	12·56	+5·58	22·54	16·07	+6·77	2·7	4·3	Rampore Beauleah	Rajshahye	
	Maldah	Maldah	29·538	29·618	—	SE	77·7	94·7	2nd ,,	78·7	28th ,,	91·7	79·5	85·6	—	83	3·9	0·81	1·75	2·76	11·43	13·53	—2·10	13·85	16·31	—2·46	4·0	4·6	Maldah	Maldah	
	Dinagepore	Dinagepore	29·502	29·622	—·033	ESE	73·1	94·6	2nd ,,	78·6	28th ,,	91·0	81·4	86·2	+2·6	83	6·0	1·27	1·93	3·17	16·63	15·47	+1 16	20·10	19·04	+0·46	2·2	5·0	Dinagepore	Dinagopore	
	Rungpore	Rungpore	29·534	29·658	—·015	South-easterly	264·1	95 8	2nd ,,	75·7	28th ,,	91·0	79·4	85·2	+2·1	83	3·7	3·42	1·08	3·45	28 77	23·37	+5·40	33·02	30 76	+2·26	3·5	5·1	Rungpore	Rungpore	
	Julpigoree Cooch Behar	Julpigoree	29·351	29·636	—·016		?	90·4	2nd ,,	74·6	28th ,,	80·2	70·7	83 0	+0·9	80	2·3	3·31	3·50	4·98	45·91	34·11	+11·80	49·45	42·87	+6 58	4·4	5·3	Julpigoree Cooch Behar	Julpigoree Cooch Behar	
	Darjeeling Hill Tracts	Darjeeling	22·900	—	+·009	NSE	104·9*	70·6	2nd ,,	56·7	3rd July	66·7	57 5*	62·2*	+0·6*	61	7·0	5·60	7·43	8·66	36·23	33·90	+2·33	40·66	40·68	—0·02	5·8	6·3	Darjeeling	Darjeeling Hill Tracts	
North Behar.	Purneah North Bhagulpore	Purneah	29·491	29·617	—·003	ESE	89·2	94·7	2nd ,,	75·9	29th June	90·6	78·5	84·7	+0·3	85	5·9	2·11	2·13	3·35	16·62	13·94	+2·68	19·80	16·98	+1·82	3·6	4·5	Purneah	Purneah North Bhagulpore	North Behar.
	Mozufferpore	Mozufferpore	29·412	29·590	—	ESE	194·9	94·3	2nd ,,	77·7	28th & 29th June	90·9	79·6	85·3	—	87	6·4	1·64	0·95	2·63	8·30	9·43	—1·07	10·14	10·80	— 0·66	2·0	3·6	Mozufferpore	Mozufferpore	
	Durbhunga	Durbhunga	29·449	29·615	+·003	ESE	157·0	94·9	2nd ,,	P	P	91·3	P	P	P	80	4·7	1·51	2·83	2·99	11·18	10·02	+1·16	12·37	11·39	+0·98	4·0	3·4	Durbhunga	Durbhunga	
	Chumparun	Motihari	29·387	29·613	+·016	ESE	231·8	95·2	2nd ,,	75·0	29th ,,	91·5	78·9	85·2	+0·6	83	5·1	0·72	1·57	3·24	13·68	10·44	+2·24	16·60	11·79	+4·81	3·0	3·6	Motihari	Chumparun	
	Sarun	Chupra	29·408	29·602	+·009	SE		93·3	3rd ,,	77·6	28th ,,	93·0	79·4	85·7	—0·2	85	3·9	0·54		2·69		8·18			9·31			3·5	Chupra	Sarun	
South Behar.	Shahabad	Dehree Buxar Arrah	29·258 29·351 29·390	29·611 29·593 29·585	+·024 +·005 +·006	S-wly E Calm	137·0 242·3 32·4	94·3 91·9 95·4	2 & 4 2nd 2nd	76·5 76·3 76·0	30th ,, 28 & 30 ,, 29, 30 June, 1 & 3rd July	90·6 88·6 91·3	78·8 78·2 79·0	84 7 83·4 85·2	—0 3 —1·4 —0·2	79 84 85	4·0 6·7 7·0	0·98 2·43 1·22	1·70	2·11	10·53	6·32	+5·21	11·12	7·19	+3·93	3·8	3 6	Dehree Buxar Arrah	Shahabad	South Behar.
	Gya	Gya	29·230	29·007	+·014	E	128·7	94·5	4th ,,	78·8	3rd ,,	91·9	79·9	85·9	—0·3	77	6·3	0·79	1·30	2 35	13·66	7·34	+6·32	14·57	8·71	+5·86	3·3	3·7	Gya	Gya	
	Patna	Bankipore	29·406	29·589	—·011	E	178·6	96 0	2nd ,,	79·2	28th & 29th June	91·5	80·9	85·7	—0·4	81	6·6	1·44	0·78	2·88	8·61	8·12	+0·49	9·91	9·57	+0·34	2·3	4·1	Bankipore	Patna	
	South Bhagulpore Monghyr	Bhagulpore	29·438	29·600	—·006	Calm	75·0	94·2	2nd ,,	77·0	29th ,,	90·7	79 4	85·1	+0·1	84	6·6	0·73	1·67	2·69	12·86	8·79	+4·09	15·05	10·41	+4·64	3·4	4·0	Bhagulpore	South Bhagulpore Monghyr	
	Sonthal Pergunnahs	Doomka	29·111	29·606	—	Variable	186·7	92·6	4th ,,	76·7	29th ,,	83·6	75·1	83·4	—	80	6·0	0·96	2·29	3·00	15·78	10·94	+4·84	18·15	13·37	+4·78	3·8	4·4	Doomka	Sonthal Pergunnahs	
	Hazaribagh	Hazaribagh	27·696	29·614	+·003	Variable	246·9	87·5	4th ,,	72·2	30th June & 2 July	83·2	73·9	78·6	—1·7	82	8·9	3·77		3·87		10·24			11·80			4·4	Hazaribagh	Hazaribagh	
Chota Nagpur.	Lohardugga Manbhoom	Ranchi	27·690	29·609	—·003	Variable	210·7	85·5	4th ,,	70·9	29th June, 1, 2 July	83·6	71·6	77·1	—0·3	78	7·7	1·89	1·09 1·97	2·10 3·37	9·38 13·77	9·36 9·57	—0·26 +3·20	9·36 15·26	11·02 11·23	—1·34 +4·03	3·3 5·0	4·2 4·3	Ranchi	Lohardugga Manbhoom	Chota Nagpur.
	Singhbhoom	Chyebassa	28·833	29·594	+·011	Variable	81·4	91·4	4th ,,	75·7	29th June & 2 July	88·7	77·1	83·9	—2·6	81	6·1	4·61	4·72	3·13	11·21	9·76	+1·45	14·36	12·33	+1·97	4·0	4·5	Chyebassa	Singhbhoom	
Assam.	Assam	Sibsagar	29·856	29·689	+·003	SW		97·1	2nd ,,	76·0	28th June	91·5	78·6	85·2	+1·1	82	9·3	2·71											Sibsagar	Assam	Assam.
		Dhubri	29·827	29·645	—·020	Variable	128·6	97·7	2nd ,,	76·8	28th June & 1 July	86·1	78·1	83·1	+0·8	82	7·7	0·36											Dhubri		
		Silchar	29·679	29·683	—·010	Calm		96·5	2nd ,,	76·2	29, 30 June & 4 July	90·9	77·6	84·1	+0·8	86	9·3	7·47											Silchar		

* Mean of six days.

Meteorological Division.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for each day. The humidity of the atmosphere is expressed as percentage, saturated air being presumed to give. A clear sky is denoted by 0 and an overcast sky by 10. The normal mean of cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means represent the average of the rainfall in that district determined from the returns sent in by the subdivisional stations for the period in question during which [illegible] the district mentioned is supposed divided by the number of stations. A rainy day is one on which at least two-tenths of an inch fell.

Remarks.—The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

Meteorological Division.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for each day. The humidity of the atmosphere is expressed as percentage, saturated air being presumed to give. A clear sky is denoted by 0 and an overcast sky by 10. The normal mean of cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means represent the average of the rainfall in that district determined from the returns sent in by the subdivisional stations for the period in question during which [illegible] the district mentioned is supposed divided by the number of stations. A rainy day is one on which at least two-tenths of an inch fell.

Remarks.—The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 4th of July 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 28th June.	Sunday, 29th June.	Monday, 30th June.	Tuesday, 1st July.	Wednesday, 2nd July.	Thursday, 3rd July.	Friday, 4th July.	Total of Number rainy days.	Total of Rainfall week.	Total rainfall since 1st of June.	Average total rainfall from 1st of June.	Total rainfall since 16th May 1890.	Average rainfall from 16th May to date.
Orissa ...	Pooree ...	Pooree ...	.....	0·20	0·88	2·28	6·22	.....	.....	4	9·58	17·79	9·11	19·63	10·
		Khurdah ...	0·30	0·20	0·17	1·14	8·24	.....	.....	5	10·14	21·59	10·73	25·43	12·
		Banpur ...	0·80	0·04	0·60	3·75							7·95		8·
		False Point ...	.....	1·37	0·28	1·38	1·64	.....	.....	4	4·67	13·42	10·51	15·73	13·
		Gop ...											?		
		Salpara ...	0·05	0·20	0·10	1·50							?		
		Pipli ...											?		
	Cuttack ...	Jagatsingpore ...	.....	0·10	2·30	2·70	1·25	.....	0·05	5	6·40	13·69	8·54	14·18	9·
		Banki ...	1·25	0·87	0·16	2·35	4·06						10·24		11·
		Cuttack ...	0·20	0·24	.....	2·50	4·72	0·16	.....	5	7·83	19·02	13·11	22·84	15·
		Kendrapara ...	0·03	0·23	0·05	1·78	2·90	0·03	.....	6	5·08	9·50	10·51	13·11	12·
		Jajpore ...	.....	0·43	.....	2·26	1·96	.....	.....	3	4·65	12·84	11·72	16·76	14·
		Dharmsala ...	0·25	.....	1·82	3·90							?		
		Salipore ...	0·72	.....	3·20	4·60	0·4						?		
	Balasore ...	Chandbali ...	.....	0·71	0·25	1·17	1·66	.....	.....	4	4·77	13·14	8·87	15·38	11·
		Bhuddruck ...	0·12	3·65	.....	0·45	1·80	.....	.....	4	6·02	10·61	10·20	20·08	13·
		Sorah ...	0·40	0·70	0·31	1·80							8·04		11·
		Balasore ...	0·61	5·36	0·20	1·26	0·67	0·20	.....	6	8·30	16·89	10·36	22·38	13·
		Jellasore ...	.....	0·36	.....	0·15	0·80	0·16	.....	4	1·47	15·33	9·13	19·07	10·
		Baripodah ...	2·45	0·61	0·70	0·00	.....	.....	.....	4	4·42	15·37	11·65	17·04	13·
South-West Bengal.	Midnapore ...	Contai ...	.....	0·26	.....	0·20	0·18	.....	.....	3	0·73	10·65	11·46	20·53	13·
		Sangor Island ...	.....	0·27	.....	0·21	0·45	0·36	.....	4	1·29	10·93	11·94	16·40	14·
		Tumlook ...	.....	0·19	.....	0·70	0·30	0·50	.....	4	1·69	14·20	10·30	21·20	12·
		Midnapore ...	0·06	0·27	0·00	1·09	0·10	0·59	.....	6	2·03	19·19	10·49	24·50	12·
		Ghattal ...	.....	1·05	0·09	1·18	0·14	0·01	.....	5	2·45	15·88	12·17	18·17	13·
		Kurrahaty ...	.....	0·34	0·26	0·23	0·21	0·17	.....	5	1·29	?	?	13·72	
		Garbetta ...	.....	0·85	.....	0·05	0·21	0·18	.....	4	1·29	12·35	?	15·74	
	24-Pergunnahs	Diamond Harbour ...	.....	.....	0·26	0·42	0·12	0·22	.....	4	0·96	10·52	11·41	15·95	13·
		Canning Town ...	.....	0·10	1·85	.....	0·30	0·45	.....	4	2·70	15·34	?	19·30	
		Alipore Jail ...	.....	.....	0·04	.....	0·09	0·02	.....	3	0·15	11·80	11·80	18·23	14·
		Barrackpore ...	.....	0·16	.....	0·60	0·13	.....	.....	3	0·89	12·55	11·65	17·03	13·
		Dum-Dum ...	.....	0·30	0·02	0·16	0·36	0·02	.....	5	0·86	13·32	11·31	16·98	14·
		Baraset ...	.....	0·19	.....	0·10	0·44	0·10	.....	4	0·83	11·23	10·97	17·81	13·
		Busserhat ...	.....	...	.....	... ..	1·70	0·50	.....	2	2·20	10·46	11·93	22·09	16·
	Howrah ...	Howrah ...	.....	0·17	0·41	0·01	0·18	0·03	.....	5	0·80	13·06	11·22	16·67	13·
		Goloberiah ...	.....	0·11	1·40	0·04	0·32	0·10	.....	5	1·97	25·32	10·47	30·88	13·
	Hooghly ...	Serampore ...	.....	0·11	.....	0·30	0·28	0·16	.....	4	1·07	13·63	11·01	17·80	13·
		Hooghly ...	.....	.....	.....	0·10	...	0·55	.....	2	0·51	15·98	10·42	18·97	13·
		Jehanabad ...	.....	0·55	...	0·80	0·09	0·18	.....	4	1·92	17·11	11·03	22·16	13·
	Burdwan ...	Culna ...	.....	0·25	.....	.....	0·05	0·12	0·02	4	0·44	13·20	9·39	20·91	11·
		Burdwan ...	2·45	0·70	0·02	.....	0·06	.....	.....	4	3·23	21·07	9·37	28·54	12·
		Cutwa ...	1·11	.....	.....	0·15	0·07	.....	.....	3	1·27	21·94	10·64	25·01	13·
		Ranegunge ...	0·64	0·50	0·24	.....	0·06	.....	.....	4	1·44	17·95	9·57	26·43	11·
		Mankur ...	0·10	0·65	0·03	.....	0·18	.....	.....	4	0·96	17·17	?	21·31	
	Bankoora ...	Bankoora ...	0·09	0·54	0·01	.....	0·57	0·28	.....	5	1·59	13·11	10·12	17·72	13·
		Bishenpore ...	.....	1·32	.....	.....	0·25	.....	.....	2	1·58	15·08	11·07	22·26	13·
		Maiara ...	0·08	1·71	0·11	.....	0·71	.....	.....	4	2·61	22·35	11·08	24·15	15·
		Khaira ...	..	1·07	0·06	.....	0·70	0·64	.....	4	3·07	10·29	12·77	18·81	15·
		Indas ...	1·04	1·90	0·03	...	0·25	0·04	.....	5	3·86	16·55	?	19·28	
		Kotalpore ...	1·18	0·50	0·33	... ..	0·17	0·04	.....	5	2·10	18·75	?	23·62	
		Anda ...	0·90	0·70	.....	...	1·30	.....	.....	3	2·90	13·81	?	17·11	
		Gangajalghati ...	.....	3·27	0·30	.....	.....	.....	.....	2	3·57	23·18	?	26·19	
		Eaipore ...	0·09	1·90	.....	0·45	0·78	0·32	.....	5	3·60	11·79	?	16·22	
		Sonamukhi ...	.....	2·01	0·17	.....	0·48	.....	.....	3	2·66	14·73	?	17·19	
	Beerbhoom ...	Mh. Story ...	.....	1·07	0·14	.....	.....	0·15	.....	3	1·36	10·61	11·89	17·60	13·
		Hetampore ...	0·44	0·64	.....	0·23	.....	.....	0·85	4	2·16	15·70	12·23	19·73	13·
		Ranpore Haut ...	1·15	.....	.....	.....	0·30	0·04	.....	3	1·49	17·34	11·21	19·90	13·
		Bolpore ...	.....	.....	1·60	.....	0·30	.....	.....	2	1·90	16·88	?	19·04	
		Murarai ...	0·25	1·20	..	.. ..	1·04	0·15	.....	4	2·64	11·40	?	13·23	
	Nuddea ...	Ranaghat ...	.....	.....	.....	.....	.....	0·73	.....	1	0·73	15·77	10·73	16·18	13·
		Kishnaghur ...	.....	.....	0·10	.....	.....	0·30	0·18	3	0·58	14·79	9·83	19·96	13·
		Chooadanga ...	.....	0·19	1·06	.....	.....	0·05	.....	3	1·25	16·37	13·79	20·41	14·
		Meherpore ...	.....	0·88	0·05	.....	.....	0·45	.....	3	1·08	12·43	10·76	14·57	14·
		Kooshtea ...	.....	.....	0·29	.....	.....	0·32	0·11	3	0·72	10·01	12·31	15·69	16·
	Khoolna ...	Satkhira ...	.....	.....	0·02	.....	0·03	1·04	0·01	4	1·10	14·40	14·39	22·40	17·
		Bagerhat ...	.....	.....	0·15	0·37	0·46	0·17	.....	4	1·15	21·86	14·51	27·50	19·
		Khoolna ...	.....	.....	0·18	0·26	0·10	0·21	.....	4	0·75	16·31	14·18	20·54	16·
		Nakipore ...	.....	.....	0·17	0·20	.....	0·30	.....	3	0·67	16·08	?	20·79	
		Rampal ...	.....	.....	.....	0·21	0·72	0·43	.....	3	1·36	16·90	?	22·41	
	Jessore ...	Narail ...	0·02	... ..	.....	0·75	0·24	.....	0·10	4	1·11	15·54	11·83	22·38	14·
		Jessore ...	0·04	... ..	0·36	0·18	0·04	.....	0·43	4	1·02	20·54	13·04	23·57	17·
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	NH	Nil	10·54	13·90	17·96	17·
		Magoorah ...	.....	.....	0·16	0·22	0·23	0·05	0·07	6	1·23	12·46	12·99	15·77	16·
		Bongong ...	.....	.....	.....	.....	.....	0·30	0·25	2	0·55	11·07	11·46	15·07	14·
	Moorshedabad	Kandi ...	0·31	0·54	0·18	.....	.....	0·30	.....	4	1·33	12·70	11·16	14·49	15·
		Berhampore ...	.....	0·10	0·59	.....	.....	0·14	.....	3	0·83	16·03	10·99	17·44	16·
		Lalbagh ...	0·20	0·04	0·01	.....	0·03	.....	0·06	5	0·54	10·04	9·93	15·58	13·
		Asimgunge ...	0·20	.....	.....	.....	.....	0·30	0·04	3	0·56	13·73	10·58	16·79	14·
		Jungipore ...	0·33	0·43	0·26	0·09	0·10	0·14	0·22	7	2·06	13·03	10·24	15·53	13·
		Lalgola ...	0·45	.....	0·15	.....	0·18	0·58	0·30	5	1·50	11·32	11·34	17·77	15·
		Nagunge ...	0·35	.....	.....	.....	.....	0·20	0·07	4	0·62	12·33	?	17·12	
		Aboypore ...	.....	0·09	.....	0·24	.....	.....	0·07	4	1·07	12·35	?	14·97	
		Patkabari ...	1·00	.....	0·10	.....	.....	.....	0·07	3	1·85	14·16	?	15·05	
East Bengal.	Chittagong ...	Cox's Bazar ...	0·02	1·32	.....	.....	.....	0·04	.....			28·63			
		Chittagong ...	0·02	.....	.....	.....	.....	.....	0·24	0·26	3	0·82	16·66	27·06	15·76
		Kutubdia ...	0·03	0·51	.....	.....	.....	.....	.....				?		
		Satrangs ...	0·80	0·48	.....	.....	.....	1·00	0·82	4	3·00	15·23	?	17·74	
	Chittagong Hill Tracts.	Rangamati ...	0·45	0·28	.....	.....	.....	0·48	0·36	0·39	5	1·80	15·28	21·20	20·44
		Rama ...	0·47	0·05	.....	.....	.....	.....	.....					31·88	
	Rajshahye ...	Patnakhally ...	0·45	0·05	0·18	.....	.....	0·25	.....	4	1·23	17·90	28·66	23·85	
		Percospore ...	0·26	.....	0·45	0·21	0·20	0·25	0·05	6	1·40	16·62	18·97	24·35	
		Burrisal ...	0·10	.....	.....	1·09	0·42	.....	0·79	4	2·30	21·24	19·15	27·27	
		Bagla ...	1·49	.....	.....	0·93	0·35	.....	.....	3	2·77	12·75	23·72	19·24	

tement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 4th of July 1890—contd.

...logical ...sion.	District.	Station.	Rainfall. Saturday, 28th June.	Sunday, 29th June.	Monday, 30th June.	Tuesday, 1st July.	Wednesday, 2nd July.	Thursday, 3rd July.	Friday, 4th July.	Total of Number rainy days.	Total of Rainfall week.	Total rainfall since 1st of June.	Average total rainfall from 1st of June.	Total rainfall since 16th May 1890.	Average rainfall from 16th May to date.
...ENGAL ...ld.		*Gourneddi* ...	.....	0·11	.....	0·07	0·35	0·75	0·33	5	2·10	15·77	?	16·87	?
		Baughai ...	1·80	0·04	.....	.....	0·31	1·09	.....	4	3·24	14·18	?	20·93	?
	Noakholly ...	Noakholly ...	0·27	0·03	.....	0·63	.....	0·25	0·30	5	1·48	17·95	28·92	25·36	33·60
		Feuny ...	0·20	0·79	.....	0·72	.....	0·30	0·37	5	2·38	24·19	31·64	32·90	36·47
		Hatchpore ...											?		?
		Ramgunj ...	3·80	.....	.....	0·52	0·15	0·56	0·20	5	5·03	19·20	?	26·28	?
	Furreedpore	Madaripore ...	.....	.....	0·57	0·54	0·20	0·11	0·06	5	1·50	8·55	14·40	13·42	18·66
		Furreedpore ...	.....	0·25	.....	.....	.....	0·18	0·48	3	0·91	11·53	15·64	14·33	19·82
		Goalunde ...	0·35	.....	.....	0·05	.....	0·11	0·06	4	0·57	8·94	12·81	13·03	18·03
	Dacca ...	Munshigunge ...	3·00	.....	.....	0·33	.....	0·35	0·31	4	3·81	14·61	17·32	25·04	31·57
		Dacca ...	0·14	.....	.....	0·08	.....	.....	0·07	3	0·24	11·16	14·07	19·03	18·99
		Naraingunge ...	1·70	.....	.....	0·18	.....	0·07	.....	3	1·95	13·07	16·96	23·04	30·67
		Manickgunge ...	.....	.....	0·08	.....	.....	.....	0·72	2	0·81	16·20	19·78	23·04	14·69
		Joydebpore ...	0·24	.....	.....	0·13	.....	.....	[illegible]	2	0·89	14·98	?	24·11	?
	Hill Tipperah Tipperah ...	Amrtola ...	0·13	.....	.....	0·72	.....	.....	3·33	3	4·09	20·15	15·93	27·43	20·29
		Comillah ...	.....	0·06	.....	1·16	.....	0·30	1·30	4	2·82	16·46	20·86	28·85	26·38
		Chandpore ...	.....	.....	.....	0·70	.....	0·36	0·36	3	1·42	15·71	18·69	23·80	21·14
		Brahmunberia ...	0·26	0·43	0·10	0·35	.....	0·31	0·66	6	2·31	14·53	16·38	19·41	21·19
		Ramchandrapore ...	1·86	... ..	.....	1·86	1·08	.....	1·32	4	5·72	19·13	?	25·70	?
		Nasirnagar ...	.....	.....	.....	.....	.....	.....	0·50	1	0·50	10·18	?	17·32	?
		Daudkandi ...	.....	.....	.....	.....	.....	.....	1·02	1	1·02	10·55	?	18·76	?
		Kasba ...	.....	.....	.....	.....	.....	.....	.....				?		?
		Lakeham ...	.....	.....	.....	2·10	.....	2·52	0·10	3	4·72	21·18	?	28·18	?
	Mymensingh...	Kishoreegunge ...	0·23	.....	.....	.....	0·42	0·05	0·89	4	1·56	19·64	20·37	27·47	25·16
		Atia (*Tangail*) ...	.....	.....	.....	.....	.....	.....	0·15	1	0·15	11·16	16·01	22·85	17·58
		Mymensingh ...	.....	0·07	0·06	0·12	.....	.....	0·32	4	0·57	20·73	20·73	17 31	26·08
		Jamalpore ...	.....	.....	.....	0·31	.....	0·23	.....	2	0·54	23·03	15·91	28 64	30·13
		Netrekona ...	0·55	.....	0·16	0·56	.....	.....	0·25	4	1·52	26·06	23·54	32·31	29·74
		Sohorakhally ...	.....	.....	.....	.....	.....	.....	1·05	1	1·05	10·93	?	17 37	?
		Durgapore ...	.....	.....	.....	1·80	.....	.....	2·30	2	3·80	25·83	?	41·56	?
		Sherepore Town ...	0·05	.....	.....	.....	.....	0·08	0·05	3	0·18	18·20	?	23·23	?
		Dewanganj ...	0·20	.....	.....	.....	.....	.....	.....	1	0·20	17·59	?	20·75	?
[illegible] [illegible].	Pubna ...	Pubna ...	.....	.....	.....	0·05	.....	.....	0·32	2	0·37	11·65	12·41	18·16	16·07
		Serajgunge ...	.....	.....	0·24	0·22	.....	0·03	0·13	4	0·60	9·80	12·58	15·61	16·47
	Bogra ...	Sherepore ...	.....	.....	.....	0·17	.....	0·47	.....	2	0·64	15·89	13·73	20·38	18·81
		Nowkhilla ...	.....	0·12	.....	0·06	.....	.....	0·16	3	0·34	13·81	13·92	19·89	17·72
		Bogra ...	.....	.....	.....	0·10	.....	.....	.....	1	0·10	12·80	13·10	17·04	20·04
		Panchbibi ...	0·90	.....	.....	.....	.....	.....	.....	1	0·90	23·27	15·37	27·03	17·98
	Rajshahye ...	Beauleah ...	.....	0·25	0·50	.....	.....	.....	0·31	4	1·11	17·29	11·06	20·67	14·17
		Nattore ...	.....	0·03	.....	.....	.....	.....	0·03	2	0·06	21·31	11·85	28·11	15·45
		Noagaon ...	.....	.....	0·66	0·10	.....	.....	.....	2	0·76	15·74	14·76	19·57	18·69
		Lalpore ...	.....	1·02	.....	.....	0·06	0·50	.....	3	0·57	8·96	?	11·96	?
		Nanda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·56	?	10·50	?
	Maldah ...	Maldah ...	0·13	0·22	0·34	.....	0·13	.....	.....	4	0·81	11·66	12·90	14·57	15·80
		Chanchai ...	2·00	0·44	0·06	.....	0·19	.....	.....	3	2·69	11·21	14·14	18·61	17·39
		Gazi ...	0·70	0·90	0·66	.....	.....	.....	.....	3	2·26	15·48	?	18·53	?
		Sibgunj ...	0·69	0·73	0·08	.....	.....	0·22	.....	4	1·72	13·97	?	19·11	?
	Dinagepore ...	Mohadebpore ...	0·08	0·42	.....	.....	.....	.....	.....	2	0·50	13·01	14·53	16·93	18·36
		Churamon ...	3·45	0·17	.....	.....	.....	0·21	.....	3	3·83	13·39	13·43	20·70	16·53
		Balgunge ...	1·93	1·03	.....	.....	.....	.....	.....	2	2·96	17·02	16·56	19·76	20·31
		Dinagepore ...	1·16	.....	.....	.....	.....	.....	0·18	2	1·34	17·99	16·27	23·27	23·37
		Patneyrhat ...	0·90	.....	.....	.....	.....	.....	0·15	2	1·05	15·94	14·54	19·76	19·74
		Thakoorgaon ...	2·43	.....	.....	.....	.....	0·33	0·31	4	3·31	21·45	?	28·41	?
	Rungpore ...	Bhawaniganje (*Gyabanda*) ...	.....	0·10	.....	.....	.....	.....	0·15	1	0·25	26·93	17·95	23·80	23·40
		Rungpore ...	2·20	.....	.....	.....	1·99	.....	0·13	3	3·41	23·80	21·65	29·35	28·60
		Kurigram ...	0·04	.....	0·06	.....	0·10	.....	0·60	4	0·80	21·71	26·15	35·30	33·99
		Bandgora (*Nilphamari*).	1·26	.....	.....	.....	0·75	0·13	0·04	4	2·17	23·07	25·68	33·91	37·46
		Dimpore ...	.....	.....	.....	.....	.....	.....	0·25	1	0·25	21·86	?	29·30	?
	Julpigoree ...	Julpigoree ...	1·37	0·05	0·04	0·04	.....	0·04	1·71	6	3·25	43·61	23·25	45·06	39·98
		Alipore Doour ...	7·22	0·03	.....	.....	.....	0·01	0·03	3	13·26	60·24	?	63·80	?
		Pallasotta ...	2·31	.....	0·07	.....	0·05	.....	0·19	4	2·62	47·49	?	49·49	?
		Debigunj ...	3·30	.....	.....	.....	.....	0·30	.....	4	3·76	33·12	?	40·13	?
	Cooch Behar..	Bhagalpore (*Bayrakatta*).	2·25	0·41	0·03	0·17	4·34	.....	5·25	6	12·45	[illegible]	?	45·81	?
		Dinhatta ...	1·15	0·08	0·05	0·03	.....	.....	0·01	5	1·27	41·27	21·68	44·15	41·38
		Cooch Behar ...	2·36	.....	.....	.....	.....	0·53	2·00	3	4·89	40·50	?	58·15	49·40
		Mekhligunge ...	1·34	0·48	0·21	.....	.....	0·17	1·00	5	3·20	30·30	?	51·28	30·26
		Mathabhanga ...	.....	0·16	.....	.....	.....	0·37	0·41	3	0·91	40·85	25·08	50·77	43·93
	Darjeeling Hill.	Kissengunge ...	4·05	0·80	0·01	.....	2·48	4·05	1·56	6	12·57	56·13	38·53	68·45	67·51
		Pankabarie ...	1·97	0·25	0·07	.....	0·37	1·38	2·56	6	7·50	37·25	29·15	48·99	50·28
		Silliguri ...	2·05	0·34	0·23	.....	0·70	0·15	0·75	6	5·02	32·40	28·28	38·85	39·73
		Darjeeling ...	2·10	0·29	0·05	.....	1·05	.....	0·48	5	4·04	33·08	21·40	34·76	34·25
		Kalimpong ...	4·75	1·35	1·74	.....	1·98	0·30	1·04	6	10·44	44·97	?	60·17	?
[illegible]	Purneah ...	Kissengunge ...	2·94	0·80	.....	.....	.....	0·27	.....	3	4·01	32·69	18·38	38·08	32·35
		Arrareah ...	0·45	0·35	.....	.....	0·23	0·70	.....	4	1·75	14·48	15·02	17·36	19·14
		Purneah ...	1·23	0·76	0·01	.....	.....	0·11	0·01	5	2·11	30·26	15·07	33·10	16·00
		Catacore ...	.....	.....	.....	.....	.....	.....	.....				?		?
		Calaerepore ...	4·05	0·40	.....	.....	.....	.....	.....	2	4·45	16·60	?	18·05	?
		Kutiari ...											?		?
		Kaligunj ...	2·20	.....	.....	.....	.....	.....	.....	1	2·20	[illegible]	?	31·17	?
	North Bhagulpore.	Kismidarpore ...	0·75	0·05	.....	.....	.....	.....	.....	2	0·80	16·61	16·65	16·61	13·09
		Bhagulpore ...	0·73	0·07	0·17	.....	0·50	.....	.....	4	1·47	9·17	11·12	10·99	12·49
		Pirnahgunj ...	.....	0·09	.....	0·13	0·50	0·03	0·08	5	0·83	11·60	?	13·28	?
	Bhuthunge ...	Taipore ...	0·23	.....	0·18	0·05	.....	.....	0·06	4	1·11	9·92	9·64	9·67	10·07
		Deokhanga ...	0·35	0·20	0·45	.....	.....	.....	0·18	4	1·21	11·23	9·26	13·71	11·36
		Mahabani ...	2·06	0·63	0·11	0·54	.....	.....	.....	4	3·34	12·27	12·07	14·98	14·26
		Kanara ...	0·74	1·10	.....	.....	.....	.....	.....	3	1·84	13·23	?	14·73	?
		Bashore ...	0·70	0·40	.....	0·29	.....	.....	.....	3	1·10	9·60	?	10·70	?
	Monghyr ...	Shumsarhi ...	0·33	0·77	0·08	.....	.....	.....	.....	3	1·18	9·27	14·69	10·16	11·89
		Monghyr ...	0·03	0·07	.....	.....	.....	.....	.....	2	0·10	9·15	9·69	10·06	11·39
		Jamui ...	0·17	0·20	.....	.....	.....	.....	.....	2	0·37	7·82	8·36	8·19	8·93
		Jhajha ...	.....	0·30	.....	.....	.....	.....	.....	1	0·30	8·66	?	9·69	?
		Simultullah ...	1·25	0·25	.....	0·05	.....	.....	.....	3	1·55	10·26	?	11·71	?
		Nawadah ...	0·25	0·10	.....	.....	.....	.....	.....	2	0·35	7·85	?	8·85	?
		Gaya ...	1·03	0·25	.....	.....	.....	.....	.....	2	1·28	11·12	?	12·40	?
		Nowada ...	1·03	0·25	.....	.....	.....	.....	.....	2	1·28	11·12	?	12·40	?
		Sherghatty ...	1·03	0·25	.....	.....	.....	.....	.....	2	1·28	11·12	?	12·40	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 4th of July 1890—concld.

Meteorological Division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of June.	Average total rainfall from 1st of June.	Total rainfall since 15th May 1890.	Average rainfall from 1st May dat
			Saturday, 28th June.	Sunday, 29th June.	Monday, 30th June.	Tuesday, 1st July.	Wednesday, 2nd July.	Thursday, 3rd July.	Friday, 4th July.	Number of rainy days.	Rainfall of week.				
North Behar —concluded.	Chumparun...	Motihari ...	0·55	.....	0·11	.....	0·05	.....	.....	3	0·71	11·54	9·52	18·03	
		Bettiah ...	1·09	0·34	0·40	.....	.....	.....	.....	3	2·43	13·80	10·33	14·73	
		Bagaha ...	1·04	1·08	0·09	0·32	.....	0·06	.....	5	2·59	17·05	?	17·66	
		Burharwa ...	0·72	5·94	0·24	0·05	.....	.....	.....	4	6·95	14·41	?	15·93	
	Sarun ...	Gopalgunge ...	1·30	0·18	.....	0·50	.....	.....	.....	3	1·95	9·35	8·67	10·85	
		Newan ...	.....	.....	0·50								8·49		
		Chuprah ...	.....	.....	0·33	.....	.....	.....	.....	1	0·33	10·06	7·41	12·05	
South Behar	Shahabad ..	Buxar ...	0·76	0·06	1·90	0·02	0·02	.....	.....	5	2·76	9·68	6·09	10·92	
		Dehree ..	0·17	.....	0·57	0·02	0·22	.....	.....	4	0·98	10·56	5·27	10·36	
		Bhaboosh ...	.....	1·08	.....	.....	0·30	.....	.....	2	2·28	10·06	6·04	10·06	
		Sasseram ...	0·28	.....	0·50	.....	0·34	.....	.....	3	1·12	10·27	6·16	10·56	
		Arrah ...	0·13	0·17	0·90	0·08	.....	0·02	.....	5	1·35	12·04	7·47	13·48	
		Mohaniah ...	0·50	1·30									?		
	Gya ...	Aurungabad...	0·45	.....	0·11	.....	0·53	.....	.....	3	1·09	10·26	7·40	10·60	
		Gya ...	0·01	.....	0·04	0·26	0·48	.....	.....	4	0·79	11·89	7·71	11·90	
		Nowadah ...	1·52	.....	0·70	.....	.....	.....	.....	2	2·22	16·67	7·63	17·79	
		Jehanabad ...	0·42	0·02	0·02	0·02	.....	.....	.....	4	1·08	12·77	6·59	14·03	
		Arwal ...	.....	.....	.....	.....	.....	.....	0·50	1	0·50	9·74	?	10·63	
		Daudnagar ...	.....	.....	0·20	0·50	.....	.....	.....	2	0·70	4·24	?	4·51	
		Sherrghati ...	0·20	.....	0·61	1·25	0·50	.....	.....	4	2·56	8·74	?	8·74	
		Rajauli ..	0·32	0·35	0·45	.....	0·16	.....	.....	4	1·28	13·20	?	13·20	
		PakriBarawan	2·80	.....	.....	0·65	.....	.....	.....	2	3·45	19·78	?	20·13	
	Patna ...	Patna ...	0·18	1·00	.....	0·08	0·16	.....	.....	4	1·42	8·04	8·63	9·51	
		Dinapore ..	0·80	.....	.....	.....	.....	.....	.....	1	0·80	7·56	8·25	9·48	
		Behar ...	.....	.....	0·09	0·03	0·21	.....	.....	3	0·33	11·43	8·40	12·55	
		Barrh ...	0·50	.....	.....	.....	.....	.....	.....	1	0·50	7·25	7·20	7·95	
		Bickram ...	0·39	.....	0·24	.....	.....	.....	.....	3	0·75	13·94	?	14·02	
		Hilsa ...	2·86	.....	.....	0·02	.....	.....	.....	2	3·48	15·34	?	17·59	
	Monghyr ...	Begoosarai ...	1·95	0·70	0·10	.....	.....	0·21	.....	4	2·96	10·30	8·29	11·73	
		Monghyr ...	0·25	0·38	.....	.....	.....	0·35	.....	3	0·98	14·85	8·59	17·45	
		Jamui ...	1·36	.....	.....	0·44	.....	.....	.....	2	1·80	18·85	8 63	20·05	
		Gogri ...	.....	.....	0·81	.....	0·07	.....	.....	2	1·48	13·78	?	15·73	
		Sheikpura ...	1·82	.....	0·10	.....	.....	.....	.....	2	1·92	14·89	?	15·19	
	South Bhagulpore	Bhagulpore ...	0·18	0·14	0·25	0·16	.....	.....	.....	4	0·73	11·06	9·15	13·89	
		Banka ...	0·33	0·15	0·88	.....	.....	0·02	.....	4	1·38	9·31	9·29	12·59	
		Kolgong ...	3·19	0·21	0·38	.....	0·30	.....	.....	5	4·18	15·22	?	17·23	
		Bangaon ...	1·73	0·84	.....	.....	.....	0·28	.....	3	2·85	11·67	?	12·77	
	Sonthal Pergunnahs.	Rajmehal ...	1·26	2·07	.....	.....	.....	.....	.....	2	3·33	13·89	12·81	15·99	
		Godda ...	1·10	0·25	.....	.....	.....	0·08	.....	3	1·43	10·19	8·23	14·04	
		Pakour ...	1·35	3·39	0·49	.....	0·65	0·19	.....	5	5·47	23·00	12·47	20·28	
		Nya Doomka	0·14	0 53	0·11	.....	0·11	0·02	0·07	6	0·98	15·19	11·79	17·14	
		Deoghur ...	0·80	.....	0·81	.....	0 03	.....	.....	3	1·64	10·68	10·59	12·59	
		Jamtara ...	0·19	.....	0·21	.....	0·30	0·09	.....	4	0·88	20·99	9·91	22·88	
		Mohagama ...	1·56	.....	.....	.....	.....	.....	1·15	2	2·71	15·75	?	16·27	
		Namchat ...	0·12		0·17								?		
Chutia Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*)..	0·58	0·56	0·20	0 27	0·21	0·44	.....	6	2·26	19·12	0·41	20·50	
		Hazaribagh ...	0·10	0·07	1·12	1·16	1·11	0·15	0·06	7	3·77	11·40	9·60	12·26	
		Semtagurah ...	0·18	0·57	1·15	0 45	0·22	.....	.....	5	2·57	8·83	10·07	9·19	
		Mahudi Hills											9·00		
		Jhoomra Hills											12·55		
		Barhi ...	0·64	.....	0·40	0·55	0 06	.....	.....	4	1·65	8·78	?	9·32	
		Chatra ...	0·15	.....	0·70	0·03	0·80	.....	.....	4	1·68	8·13	?	8·93	
		Karagdeha ...	0·30	0·11	.....	.....	.....	0·10	.....	3	0·51	15·08	?	17·70	
		Ramghar ...	.....	.....	0·50	1·50	0·30	.....	.....	3	2·30	9·74	?	12·39	
	Lohardugga ...	Lohardugga ...	.....	.....	0·22	0·66	0·21	.....	.....	3	0·49	8·81	9·76	8·62	
		Ranchi ...	.....	.....	0·83	0·11	0·74	0·15	.....	4	1·83	8·99	10·52	11·36	
		Palamow ...	0·37	.....	0·45	.....	0·14	.....	.....	3	0·96	7·41	7·55	8·89	
		Silli ...	0·90										?		
		Balumat ...											?		
		Jossinabad...	.....	.....	1·70	.....	.....	.....	.....	1	1·70	7·47	?	7·62	
		Garwah ...	1·52	1·40									?		
	Singbhoom ...	Chyebassa ...	.....	1·58	1·80	0·62	1·55	.....	.....	4	4·75	11·41	9·76	14·30	
		Chakradharpore.											?		
		Ghatsilla ...	2·50	0·07	0·60	1·30	0·38	.....	.....	5	4·85	13·14	?	16·22	
		Bahanagura...	1·02	5·45	.....	0·41	0·74	0·36	.....				?		
	Manbhoom ...	Purulia ...	0·11	0·74	.....	0·53	1·36	0·36	.....	5	3·10	15·03	10·24	17·65	
		Gobindpore ...	0·03	0·02	0·03	.....	0·20	0·55	.....	5	0·88	12·49	8·86	12·86	
		Raghunathpore.	0·07	0·41	0·20	0·30	0·46	0·70	.....	6	2·04	15·72	?	17·81	
		Barrabhoom	0·20	1·52	0·02	0·15	0·46	.....	.....	5	2·37	8·39	?	13·13	
		Jhalda ...	0·57	0·82	.....	0·52	.....	.....	.....	3	1·91	10·81	?	12·47	
		Unae ...	0·81	0·50	0·55	0·12	0·38	0·50	.....	6	2·86	15·56	?	18·84	

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 8th July* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 4TH OF JULY 1890.

THE weather during the present week has been affected throughout by the depression which formed near the head of the Bay about the beginning of July. Though the cyclonic disturbance crossed the coast late on the 1st or early on the morning of the 2nd, moving rapidly in a westerly direction into Central India, the after-effects in the form of violent atmospheric oscillations continued till the end of the week, the waves moving from east to west across Bengal and the northern half of the Bay.

The depression began to form on June 28th, the first day of the present week, appearing as a local shallow depression over South-West Bengal and Orissa, the lowest pressure after a slow fall in these parts being 29·585 inches at Balasore. Pressure distribution over Bengal was very nearly normal, a small excess of two-hundredths of an inch being reported from the stations in the north-west corner of the Bay, while towards the east coast it increased to nearly a twentieth of an inch. Westerly winds were blowing at Cuttack and False Point, and the easterly element in directions at eastern stations had become more pronounced. Rainfall was generally light and local in the south-west corner of the province, but was heavy and general in North Bengal and Behar. On the 29th the fall of pressure was brisk in all districts except to the west of Behar, and was most rapid in North Bengal and Assam, but when compared with the normal distribution, a diffused shallow depression covered the whole of the northern half of the Bay, extending from Diamond Island in a north-westerly direction as far as Ranchee, while rainfall becoming more general within the shallow depression, was more local and much lighter in the other parts of the province. Wind circulation was more distinctly cyclonic, and the centre lay about midway between Balasore and Calcutta. After this a somewhat rapid deepening occurred towards the east of the low-pressure area, and on the 30th the centre of lowest pressure was to the east of False Point and north of Saugor Island. The largest changes were in Arakan, the fall at Akyab being over a tenth of an inch, and in consequence of the rapid fall in East and North Bengal, a trough of low pressure extended from the Bay in a northerly direction, so that the storm seemed likely to move in that direction. Weather was stormy with heavy rain squalls over the northern half of the Bay to the rear of the depression, but in Bengal the only important falls of rain were in Chutia Nagpur and South Behar, East and North Bengal being almost rainless. On the 1st July the storm showed further signs of development and was moving slowly towards Orissa, so as to pass over False Point. Northerly winds were blowing at all the Orissa stations and in Chutia Nagpur and South-West Bengal as far north as Ranchee and Berhampore. Pressure was lowest at False Point, measuring there 29·39 inches, and gradients were much steeper over the Bay, the difference between False Point and Tavoy being half an inch. The slow westerly motion of the centre continued, and it passed over False Point about midnight, the lowest pressure reported from that station being 29·09 inches. On this day fairly heavy rain was falling at all the Orissa stations, wind force was steadily increasing, and after the centre crossed the coast and southerly winds set in, a strong gale blew to the north of Gopalpore. A very rapid rise of pressure followed, and by 8 a. m. on the 2nd there had been a rise of half an inch at False Point, while in the east of the Bay and over the eastern districts of Bengal the very rapid rise of from ·15 inch to 2 inch was reported. This rapid rise continued on the following day, and there was then over the whole of Bengal very high pressure, excess varying from ·1 inch in East Bengal to ·2 inch in Orissa, so that from being half an inch below the normal, an excess of two-tenths accumulated in about 28 hours. This high pressure prevented the influx of moist winds to South-West Bengal, which was to be expected after the westerly motion of the storm, and though easterly winds still blew in Behar, a westerly current was setting in, and after the rapid fall of pressure on the 4th in the east and north, became general in all districts of the province. Rain was practically absent on Friday over the western half of Bengal, and moderate amounts were falling in East and North Bengal. The weather over the Bay rapidly improved, and by the afternoon of the 2nd only moderate winds were blowing.

Pressure—Changes, as detailed above, have been very rapid and sudden, especially after the passage of the depression. As there has been a large defect at one time, and a large excess at another, the means for the week have been very little influenced, and thus in Orissa, where the largest difference from the normal would be expected, there is defect of only two-hundredths of an inch. In the other districts the means are very nearly normal, generally differing from it by only a few thousandths of an inch.

Temperature—Has been low in the western districts, but changes have been of very little importance and of the usual oscillatory nature, with a rather more rapid and general rise towards the end of the week. Defect is 2° in Chutia Nagpur, 1·2° in Orissa, while in South Behar and South-West Bengal it is about half a degree. In Assam, North Bengal and North Behar excess is about 1°, and in East Bengal ·6°.

Rainfall—Has been largely below the normal except in Orissa, where the heavy rainfall during the passage of the storm has caused an excess of 3·4 inches, the average fall being 220 per cent. of the normal. In East Bengal less than half the normal amount has fallen, and in South-West Bengal, North Bengal, and North Behar the proportion is very little larger. The fall in Orissa is 6·25 inches, in Chutia Nagpur 2·17 inches, while in all the other districts

the average fall is very nearly 1·5 inches slightly over this amount except in South-West Bengal, where it is 1·3 inches. The heaviest falls reported from Orissa are—Pooree 9·6 inches, Balasore 8·4 inches, Bhuddruck 6 inches, and Kendrapara 5 inches. Very heavy rain fell in North Bengal on Saturday, the 28th of June, Alipore Dooar reporting 8 inches and several other stations from 3 to 4 inches. In these districts, viz., Julpigoree, Cooch Behar, and the Darjeeling Hills, falls were much lighter and more local till the last day of the week, when some heavy rain was again reported. Generally over Bengal falls have very seldom been over 3 inches, and frequantly under 1 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 4th of July 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of June.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	93·9	73·3	87·1	76·8	83·0	—1·2	6·25	2·84	+3·41	4·7	3·7	+1·0	15·26	10·06	18·45	12·23
South-West Bengal ...	93·8	75·6	89·9	79·0	84·5	—0·4	1·31	2·26	—0·95	3·7	4·2	—0·5	14·86	11·49	18·97	14·25
East Bengal	91·7	71·9	86·1	77·9	83·0	+0·6	1·56	3·36	—1·80	3·5	5·0	—1·2	17·21	20·09	23·79	24·51
North Bengal	95·8	74·6	90·2	79·3	84·7	+1·0	1·71	3·27	—1·56	3·0	4·8	—1·8	23·68	19·53	27·72	24·96
North Behar	95·3	75·9	91·2	78·2	85·2	+0·2	1·06	3·01	—1·35	3·0	4·1	—1·1	12·45	10·79	14·48	12·64
South Behar	90·0	76·3	90·5	79·1	84·8	—0·6	1·69	2·58	—0·98	3·0	4·0	—1·0	12·56	8·46	14·10	10·05
Chutia Nagpur	87·8°	70·9°	83·3°	72·2°	77·8°	—2·0°	2·17	2·83	—0·65	4·5	4·4	+0·1	11·06	9·61	13·39	11·53
Assam	97·1	76·0	89·5	78·0	83·8	+0·2										

Chyebassa not included.

Meteorological Office, Bengal ;
The 8th July 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 29th June to 5th July 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
June	29th	154·5	5·3	29·482	83·6	89·3	12·5	76·8	79·9	0·974	78·4	85	ESE and calm ...	36	0·11	Partially cloudy, o, p, t. d, ●.
,,	30th	146·4	3 0	·449	83·4	87·9	9·7	78·2	79·1	·938	77·3	82	ENE and calm ...	83	0·02	Partially cloudy' d.
July	1st	146·5	6·2	·458	83·6	87·8	8·1	79·7	78·4	·903	76·1	79	NE by E, ENE and E	308	0·05	Partially cloudy, o, d, ⊕.
,,	2nd	144·0	1·7	·630	82·6	85·8	8·1	77·7	79·2	·950	77·7	85	E, ESE and SE ...	180	0·12	Chiefly cloudy, o, t, d, p.
,,	3rd	156·7	5·1	·737	84·4	89·5	12·3	77·2	80·4	·986	78·8	84	SSW, SW and calm	82	Nil	Partially cloudy, o.
,,	4th	143·5	0·2	·609	84·8	89·7	9·2	80·5	79·6	·942	77·4	79	SW and WSW ...	114	0·17	Cloudy, o, p.
,,	5th	128·6	Nil	·576	82·0	87·8	10·5	77·3	78·4	·925	76·9	85	Variable and calm	42	1·86	Cloud y, o, g, d, t, p.

		Inches.
The mean pressure of the seven days		29·559
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·539
		Hours.
The total number of hours of bright sunshine		21·5
The maximum possible number of hours of sunshine		94·2
		°
The mean temperature of the seven days		83·5
The average temperature of the corresponding period for 24 years, S.-G.'s Office		83·5
The extreme variation of temperature		12·9
The maximum temperature		89·7
		Miles.
The highest velocity of the wind in one hour		22
		lbs.
The highest pressure of wind on one square foot	Approximately	5
		%
The mean relative humidity		83
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		85
		Inches.
The total fall of rain from 29th June to 5th July 1890		2·33
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		3·59
The total fall from 1st January to 5th July 1890		23·04
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		24·05

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, t thunder, p passing temporary showers, / strong wind, ⊕ solar corona.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 7th July 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of June 1890.

	Inches.	Date.
The mean pressure at 10 A.M. during the month	29·596	
	°	
The mean temperature at 10 A.M. during the month	87·6	
The highest temperature during the month	97·0	1st, 2nd, 3rd.
The lowest temperature during the month	72·2	6th.
The absolute range of temperature during the month	24·8	
The mean daily range of temperature during the month ...	12·9	
The greatest range of temperature in one day during the month ...	19·0	2nd.
	%	
The mean 10 A.M. humidity during the month	78	
	Inches.	
The mean 10 A.M. vapour pressure during the month	1·016	
The total rainfall of the month	15·05	
The greatest fall in 24 hours	4·00	22nd.
	Days.	
The number of rainy days in the month	21	

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 7th July 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 29th June to 5th July 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Hygrometry. Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
June 1890...	29th ...	29·525	81·3	91·0	13·4	77·6	84·6	79·5	·941	77·4	79	0·21
,, ,, ...	30th ...	·500	84·1	89·4	10·6	78·8	85·6	79·5	·927	76·9	76	0·16
July ,, ...	1st ...	·486	84·5	89·0	9·0	80·0	88·2	79·5	·891	75·7	67	
,, ,, ...	2nd ...	·681	82·8	87·0	8·5	78·5	83·1	79·5	·961	78·0	85	0·20
,, ,, ...	3rd ...	·758	85·2	91·6	12·8	78·8	87·1	82·3	1·040	80·4	81	0·04
,, ,, ...	4th ...	·657	86·0	91·0	10·0	81·0	88·4	82·0	1·007	79·4	75	
,, ,, ...	5th ...	·615	84·2	89·5	10·7	75·8	83·6	81·0	1·025	80·0	89	0·15

	Inches.
The mean 10 A.M. pressure of the seven days	29·603
	°
The mean temperature of the seven days	84·4
The extreme variation of temperature	14·0
The maximum temperature	91·6
	%
The mean 10 A.M. relative humidity of the seven days	79
	Inches.
The total fall of rain from 29th June to 5th July 1890	0·76

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 7th July 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 21st June 1890.

Births.

The births registered during the week ending with Saturday, the 21st June 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 14·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 4·2 lower than the average rate of the corresponding weeks of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	21·1	16·0	18·0	17·3	19·3	18·4	14·2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 31st May 1890.	7th June 1890.	14th June 1890.	21st June 1890.	Towns.	Weeks ending— 31st May 1890.	7th June 1890.	14th June 1890.	21st June 1890.
Burdwan	9·1	21·4	32·0	7·6	Narainganj	16·6	24·8	12·4	58·0
Midnapore	18·6	18·6	13·9	8·1	Chittagong	16·4	11·7	9·4	23·5
Hughli and Chinsurah	37·7	26·3	19·7	14·8	Comillah	23·1	15·4	38·5	11·5
Serampore	21·6	23·6	23·6	29·4	Patna	3·6	6·2	7·5	7·8
Utterpara	18·9	...	18·9	9·4	Gya	19·1	19·8	16·4	12·3
Howrah	14·3	18·9	10·9	15·5	Arrah	27·5	13·2	8·4	17·9
Bali	14·0	7·0	10·5	10·5	Mozufferpore	15·8	10·9	7·3	18·2
Kishnagar	7·6	15·1	15·1	9·5	Durbhanga	18·1	11·0	20·5	17·3
Ranaghat	6·0	6·0	12·0	..	Chupra	11·1	9·1	4·0	3·0
Santipore	14·0	10·5	17·5	8·8	Bhagulpore	24·5	10·9	12·7	17·2
Jessore	6·1	...	6·1	...	Monghyr	10·9	17·2	20·8	23·5
Rampore Beauleah	21·0	23·6	31·5	36·8	Purneah	3·5	17·3	13·9	...
Darjiling	7·4	22·2	...	59·3	Poori	14·7	18·9	21·0	29·4
Dacca	11·0	10·4	9·1	7·8					

It will be seen that last week the highest birth-rate was returned from Darjiling (59·3) and the lowest from Chupra (3·). No births were registered during the week in, Ranaghat, Jessore and Purneah towns.

Deaths.

The deaths registered during the week under review correspond to an annual rate of 26·9 per 1,000 of the population. The rate of the week is 2·4 higher than the average rate of the corresponding weeks of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	34·0	24·8	16·9	23·9	22·8	24·5	26·9

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 31st May 1890.	7th June 1890.	14th June 1890.	21st June 1890.	Towns.	Weeks ending— 31st May 1890.	7th June 1890.	14th June 1890.	21st June 1890.
Burdwan	25·9	16·8	19·8	15·3	Narainganj	8·3	24·8	24·8	16·6
Midnapore	29·4	20·1	15·5	20·1	Chittagong	11·7	30·5	11·7	16·4
Hughli and Chinsurah	27·9	32·8	29·5	19·7	Comillah	30·8	30·8	34·7	11·5
Serampore	29·4	18·7	23·6	15·7	Patna	15·6	21·4	17·5	15·5
Utterpara	9·4	47·2	18·9	28·3	Gya	32·1	42·4	27·3	34·8
Howrah	13·2	13·6	20·6	12·0	Arrah	32·3	21·5	13·2	37·1
Bali	21·1	10·5	14·0	17·5	Mozufferpore	38·9	26·8	28·0	26·8
Kishnagar	11·4	9·5	[illegible]	...	Durbhanga	33·0	26·7	33·0	21·2
Ranaghat	12·0	12·0	[illegible]	6·0	Chupra	12·1	11·1	12·1	14·1
Santipore	5·2	8·8	14·0	15·8	Bhagulpore	28·2	23·6	24·4	18·1
Jessore	6·1	49·0	12·2	36·7	Monghyr	19·3	26·2	18·1	17·2
Rampore Beauleah	26·3	23·6	23·6	23·6	Purneah	10·4	27·7	3·5	10·4
Darjiling	14·8	59·3	14·8	37·0	Poori	62·9	142·7	125·9	343·0
Dacca	16·2	30·5	24·0	17·5					

It will be seen that last week the highest mortality occurred in the town of Poori (363·) and the lowest in Ranaghat (6·). No deaths were registered during the week in Kishnagar town.

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes were as follows:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Poori ...	241·3	Poori ...	86·0	Poori ...	18·9
Arrah ...	15·5	Jessore ...	36·7	Gya ...	12·9
Mozufferpore ...	13·4	Darjiling ...	29·6	Midnapore ...	12·4
Durbhanga ...	5·5	Gya ...	21·2	Serampore ...	11·0
Patna City ...	4·5			Bhagulpore ...	10·9

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 8·3 from cholera, against 3·5 per 1,000 in the preceding week; ·7 from small-pox against ·8; 10·1 from fever, against 8·9; 2·2 from bowel-complaints, against 3·; ·4 from injury, against ·7; and 5·2 from other causes, against 6· in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	25·9	Christians ...	7·5	Under 1 year ...	168·0
Females	28·1	Hindus ...	30·1	1 and under 5 years ...	35·2
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	92	Mahomedans ...	19·4	5 „ 10 „ ...	12·2
				10 „ 15 „ ...	14·0
				15 „ 20 „ ...	17·3
				20 „ 30 „ ...	12·8
				30 „ 40 „ ...	24·9
				40 „ 50 „ ...	30·7
				50 „ 60 „ ...	36·9
				60 years and upwards ...	48·2

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 7th July 1890.

1	2	3			4			5			6	7							8						9	10	11		12
												MORTALITY ACCORDING TO—																	
												Disease.																	
												Deaths from—							Ratio per 1,000 of Population per annum.										
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.																				Ratio of deaths per 1,000 of population per annum in the previous week.	Sex.				
					Number of—			Ratio per 1,000 of Population per annum.																		Deaths.		Ratio per 1,000 of Population per annum.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	2	3	5	3·0	4·6	7·6	66	...	...	8	...	...	2	10	...	...	12·2	...	...	3·0	15·3	19·3	8	2	23·0	6·5	353
Midnapore ...	Midnapore ...	16,927	16,633	33,560	1	1	2	1·5	1·5	3·1	100	3	...	1	1	...	8	13	4·6	...	1·5	1·5	...	12·4	20·1	15·5	5	8	15·4	25·0	61
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	5	4	9	8·2	6·6	14·8	125	...	3	6	1	...	2	12	...	4·9	9·8	1·6	...	3·3	19·7	29·5	7	5	23·0	16·4	140
Serampore ...	Serampore ...	13,559	12,937	26,496	8	7	15	15·7	13·7	29·4	114	...	...	1	1	...	6	8	...	...	2·0	2·0	...	11·0	15·7	23·6	4	4	15·3	16·1	95
	Utterpara	3,046	2,464	5,510	...	1	1	...	9·4	9·4	No male birth.	...	...	1	2	...	..	3	...	...	9·4	18·9	...	...	28·3	18·9	2	1	34·1	21·0	163
Howrah ...	Howrah	53,153	37,660	90,813	18	9	27	10·3	5·2	15·5	200	2	...	7	4	1	7	21	1·1	...	4·0	2·3	·6	4·0	12·0	20·6	13	8	13·7	11·0	115
	Bali	7,836	6,979	14,815	2	1	3	7·0	3·5	10·5	200	1	...	3	1	...	...	5	3·5	...	10·5	3·5	...	...	17·5	14·0	3	3	19·0	14·9	127
Nudden ...	Kishnagar ...	13,263	14,214	27,477	1	4	5	1·9	7·6	9·5	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9·5	...	...	...	...	...
	Ranaghat	4,028	4,655	8,683	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	6·0	...	...	...	6·0	6·0	...	1	...	11·2	No male death.
	Santipore	13,708	15,979	29,687	4	1	5	7·0	1·7	8·8	400	...	3	3	1	1	1	9	...	5·3	5·3	1·7	1·7	1·7	15·8	14·0	6	3	22·8	9·8	232
Jessore ...	Jessore	4,830	3,665	8,495	...	...	...	...	...	...	...	...	...	6	...	...	...	6	...	...	36·7	...	...	...	36·7	12·2	5	1	53·8	14·2	378
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	6	8	14	15·8	21·0	36·8	75	...	...	5	...	...	4	9	...	...	13·1	...	...	10·5	23·6	23·6	6	3	29·0	17·3	167
Darjiling ...	Darjiling	4,579	2,439	7,018	5	3	8	37·9	22·2	59·3	166	...	...	4	1	...	...	5	...	...	29·6	7·4	...	...	37·0	14·8	4	1	45·4	21·3	213
Dacca ...	Dacca	42,782	37,379	80,161	4	8	12	3·6	5·2	7·8	50	2	1	13	4	...	7	27	1·3	·6	8·4	2·6	...	4·5	17·5	24·0	21	6	25·5	8·3	307
	Naraingunj ...	7,665	4,956	12,561	6	8	14	24·8	33·1	58·0	75	...	...	3	...	...	1	4	...	...	12·4	...	...	4·1	16·6	24·8	3	1	20·5	10·5	195
Chittagong ...	Chittagong ...	13,340	8,790	22,130	8	2	10	18·8	4·7	23·5	400	...	...	2	1	...	4	7	...	...	4·7	2·3	...	9·4	16·4	11·7	4	3	15·6	17·7	88
Tipperah ...	Comillah	8,153	5,353	13,506	2	1	3	7·7	3·8	11·5	200	...	...	3	...	...	...	3	...	...	11·5	...	...	...	11·5	34·7	1	2	6·4	19·4	33
Patna	Patna City ...	78,762	81,475	160,237	8	16	24	2·6	5·2	7·8	50	14	2	14	6	1	10	47	4·5	·6	4·5	1·9	·3	3·2	15·3	17·5	23	24	15·2	15·3	99
Gya	Gya	38,290	37,831	76,121	6	12	18	4·1	6·2	12·3	50	1	...	31	...	...	19	51	·7	...	21·2	...	...	12·9	34·8	27·3	27	24	36·7	33·0	111
Shahabad ...	Arrah	30,960	32,505	63,465	5	10	15	6·0	11·9	17·9	50	13	3	11	1	1	2	31	15·5	3·6	13·2	1·2	1·2	2·4	37·1	13·2	14	17	34·7	39·3	88
Mozufferpore..	Mozufferpore ...	23,084	19,658	42,742	14	1	15	17·0	1·2	18·2	1,400	11	...	5	3	1	2	29	13·4	...	6·1	3·6	1·2	2·5	26·8	28·0	8	14	18·0	35·0	48
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	16	6	22	12·6	4·7	17·3	266	7	...	14	3	...	3	27	5·5	...	11·0	2·3	...	2·3	21·2	33·0	16	11	24·6	17·7	139
Sarun	Chupra	25,116	26,554	51,670	1	2	3	1·0	2·0	3·0	50	...	2	5	4	1	2	14	...	2·0	5·0	4·0	1·0	2·0	14·1	12·1	7	7	14·5	13·7	105
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	11	8	19	10·9	7·2	17·9	137	...	...	8	...	...	12	20	...	...	7·2	...	...	10·9	18·1	24·4	11	9	19·3	16·9	115
Monghyr ...	Monghyr	28,154	29,366	57,520	13	13	26	11·7	11·7	23·5	100	...	...	8	5	...	6	19	...	...	7·2	4·5	...	5·4	17·2	18·1	7	12	12·9	21·2	60
Purneah ...	Purneah	8,463	6,553	15,016	...	...	...	...	...	...	...	...	...	3	...	...	...	3	...	...	10·4	...	...	...	10·4	3·5	1	2	6·1	15·9	38
Poori	Poori	13,247	11,537	24,784	7	7	14	14·7	14·7	29·4	100	115	...	41	5	3	9	173	241·3	...	86·0	10·5	6·3	18·9	363·0	125·9	68	105	266·9	473·3	56
	Total ...	550,966	510,588	1,061,574	153	136	289	7·5	6·7	14·2	112	109	14	207	44	9	107	550	8·3	·7	10·1	2·2	·4	5·2	26·9	23·0	271	276	25·9	28·1	92

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	60 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	6	4	...	...	...	13·2	20·3	...	...	2	...	...	1	...	...	1	3	1	2	157·6	...	...	20·7	...	...	7·5	35·3	21·2	70·2
Midnapore ...	Midnapore ...	...	7	6	...	...	...	14·0	43·2	...	...	...	3	2	1	...	1	2	1	...	3	...	66·3	27·7	17·1	...	7·1	18·8	14·0	...	85·2
Hughli ...	Hughli and Chinsurah	...	12	...	...	..	...	24·7	...	...	...	4	1	...	...	...	2	2	1	1	1	259·0	23·4	...	...	...	16·8	18·2	12·5	20·0	25·1
Serampore ...	Serampore ...	...	8	...	...	...	...	16·5	...	...	...	4	2	...	...	...	...	1	...	...	1	293·0	57·6	...	...	...	...	10·5	...	...	37·4
	Utterpara ...	...	3	...	...	...	...	29·3	...	..	...	1	...	...	...	1	...	...	...	...	1	323·0	...	...	...	116·2	...	...	...	...	260·0
Howrah ...	Howrah	1	13	7	...	...	27·5	9·9	17·7	...	...	3	2	1	1	...	2	2	2	3	5	75·6	15·8	8·3	7·9	...	4·6	5·4	8·8	28·4	69·3
	Bali	...	5	...	...	...	...	19·4	...	...	...	...	2	...	...	1	...	...	...	1	1	...	104·1	...	...	39·0	...	...	...	49·6	71·0
Nuddea ...	Kishnagar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ranaghat ...	...	1	...	...	...	...	7·1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	71·8	...
	Santipore ...	...	7	2	...	...	...	17·6	11·6	...	...	4	...	1	...	1	...	1	1	...	1	246·2	...	13·8	...	23·4	...	12·0	14·8	...	26·5
Jessore ...	Jessore	...	3	3	...	...	...	34·6	40·8	...	...	...	2	...	1	1	...	...	...	2	...	...	210·5	...	78·2	71·0	...	...	...	134·7	...
Rajshahye ...	Rampore Beauleah	...	8	4	...	...	...	26·2	21·2	...	...	1	...	...	2	1	2	2	...	1	...	128·1	...	...	57·7	31·3	25·0	28·9	...	41·9	...
Darjiling ...	Darjiling	...	5	...	...	...	...	56·6	...	...	...	3	1	1	...	...	...	...	...	...	...	1,289·3	80·9	88·9	...	...	...	...	...	...	...
Dacca ...	Dacca	...	15	12	...	...	...	19·4	15·9	...	...	3	2	1	...	3	5	3	1	2	7	82·2	14·1	5·3	...	21·4	17·0	13·4	6·2	22·0	65·3
	Naraingunj ...	...	3	1	...	...	...	24·7	8·4	...	...	1	...	...	...	...	1	1	1	...	...	186·4	...	...	...	...	19·5	24·3	37·3	...	...
Chittagong ...	Chittagong ...	...	2	5	...	...	...	17·9	17·0	...	...	1	1	...	...	...	1	1	2	1	...	92·4	26·4	...	...	...	11·2	15·6	46·1	47·9	...
Tipperah ...	Comillah	...	...	3	...	...	...	...	21·1	...	...	...	...	1	...	...	...	1	...	...	1	...	...	31·9	...	...	...	26·1	...	...	76·7
Patna	Patna City ...	...	35	12	...	...	...	15·3	15·3	...	...	3	3	2	2	2	6	5	5	6	3	90·5	28·5	6·2	7·2	9·3	10·8	11·2	13·8	22·1	11·3
Gya ...	Gya	...	39	12	...	...	...	33·8	33·8	...	...	13	3	3	9	1	4	5	3	3	2	377·7	65·5	22·3	69·5	9·9	14·1	20·4	16·0	23·7	20·2
Shahabad ...	Arrah	...	21	10	...	...	...	35·2	41·9	...	...	8	9	...	3	1	...	3	3	1	3	323·0	105·6	...	35·3	16·2	...	24·2	53·3	16 8	54·1
Mozufferpore ...	Mozufferpore ...	...	15	7	...	...	...	26·0	29·2	...	...	6	2	4	1	1	2	...	1	2	3	326·7	25·7	46·2	13·1	17·2	12·1	..	10·4	16·0	64·1
Durbhanga ...	Durbhanga ...	...	17	10	...	...	...	18 3	29·6	...	...	6	8	5	...	3	1	...	3	...	1	200·4	54·7	33·2	...	38·3	3·9	...	21·0	...	16·3
Saran	Chupra	...	10	4	...	...	...	13·1	17·5	...	...	3	4	...	1	2	1	...	1	1	1	110·6	40·3	...	10·4	30·0	5·6	...	8·6	12·6	16·3
Bhagulpore ...	Bhagulpore ...	...	14	6	...	...	...	18·3	18·1	...	...	2	1	2	...	3	1	1	2	4	4	87·1	9·6	17·7	...	37·3	4·8	5·6	16·5	48·8	57·7
Monghyr ...	Monghyr	...	19	...	...	...	...	22·1	...	...	...	6	3	1	...	...	2	1	2	...	4	210·1	25·1	7·4	...	...	10·1	5·8	16·3	...	58·0
Purneah ...	Purneah	...	1	2	...	...	...	5·7	18·4	...	...	1	1	1	...	...	...	...	...	...	...	183·7	43·0	32·9	...	...	...	...	...	...	...
Poori ...	Poori	...	173	...	...	...	...	366·7	...	...	...	2	3	1	4	6	21	52	42	25	17	343·2	86·8	23·2	110·9	167·8	206·7	667·2	657·2	582·7	459·5
	TOTAL ...	1	439	110	...	...	7·5	30·1	19·4	...	...	82	63	26	26	27	52	84	74	55	61	169·0	35·2	12·3	14·0	17·3	12·8	24·9	30·7	36·9	48·2

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of May 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
450	1. Grain ...	1,138	4,412·5	5,550·5	3,36,901	5,550·5	3,36,901	
1	2. Cotton ...	.....	4	4	565	4	565	
35	3. Oilseeds ...	6	462	468	53,071	468	53,071	
145	4. Salt ...	1,363	.....	1,363	1,51,443	1,363	1,51,443	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
12	6. Metal ...	34	7	41	32,675	41	32,675	
10	7. Building materials	53	.....	53	902	53	902	
493	8. Miscellaneous ...	1,740·5	1,949·4	3,689·9	8,39,936	3,689·9	8,39,936	
27	9. Fuel ...	179	99	278	3,369	278	3,369	
afts 2	10. Timber ...	95 c. ft.	.....	95 c. ft.	285	95 c.ft.	285	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
173 & 2 rafts.	12. Total ...	4,513·5 & 95 c. ft.	6,933·9	11,447·4 & 95 c. ft.	14,19,147	11,447·4 & 95 c.ft.	14,19,147	
903 & 9 rafts.	13. Total of same month last year	2,504 & 800 c. ft.	6,792 & 5,126 c. ft.	9,296 & 5,920 c. ft.	11,33,828	9,296 & 5,920 c. ft.	11,33,828	

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	527	646	1,173
4a. Empty boats and steamers No.	521	112	633
5. Total number of boats plying passenger No.	506	822	1,328
5a. Ditto empty boats ,,	8	5	13
6. Total registered tonnage, cargo Tons	15,329·8	14,624·5	29,954·3
7. Total registered tonnage, passenger Tons	153	167	320
8. Ton-mileage	.....	.....	.....
9. Estimated value of cargo Rs.	7,03,337	7,15,525	14,18,862
10. Number of passengers No.	64	91	155
11. Rafts, bamboos C. ft.	.....	.....	.....
12. Do., bullahs ,,	95	.....	95
13. Estimated value of rafts Rs.	285	.....	285
14. Tollage on boats ,,	2,904-6-6	3,659-14-6	6,564-5-0
15. Compounded tollage on boats Rs.	.....	.....	.....
16. Tollage on rafts ,,	1-8-0	.....	1-8-0
17. Total tollage on boats per ton-mile* ...	.....	.....	.....
18. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	1-9-3

	Rs. A. P.
Total tollage of month—24+25+26 ...	6,565 13 0
Total tollage of same month last year ...	5,321 8 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	268 4 6
2. Tollage per month ...	6,565 13 0
3. Total ...	6,834 1 6
4. Amount paid into treasury during the month ...	6,556 9 0
5. Balance due at the end of the month ...	277 8 6

* Boats in these rivers do not pay per mile.

Abstract for the month of May 1890 as compared with the corresponding month of the previous year.

	1890-91. During the month.	1890-91. To end of the month.	1889-90. During the month.	1889-90. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
llage	6,565 13 0	12,941 8 0	5,321 8 6	12,490 8 6

CALCUTTA,
The 8th July 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of May 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
212	1. Grain ...	2,041	430	2,471	1,04,353	2,471	1,04,353	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
2	3. Oilseeds ...	3	.....	3	210	3	210	
23	4. Salt ...	2	168	170	19,195	170	19,195	
9	5. Piece-goods ...	.....	39	39	30,900	39	30,900	
1	6. Metal ...	1	.....	1	450	.....	.....	
36	7. Building materials	9	426	435	1,421	20	189	
646	8. Miscellaneous ...	146	375	521	56,736	520	56,631	
30	9. Fuel ...	67	83	150	915	146	880	
4 rafts	10. Timber ...	152 c. ft.	80 c. ft.	232 c. ft.	113	232 c. ft.	113	
7 „	11. Bamboos ...	650 „	375 „	1,025 „	64	1,025 „	64	
959 & 11 rafts.	12. Total ...	2,269 & 802 c. ft.	1,521 & 455 c. ft.	3,790 & 1,257 c. ft.	2,14,357	3,369 & 1,257 c.ft.	2,12,535	
825 & 6 rafts.	13. Total of same month last year.	2,441 & 180 c. ft.	781 & 623 c. ft.	3,222 & 803 c. ft.	2,05,656	3,127 & 803 c.ft.	2,04,585	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	459	500	959
15. Total number of boats plying passenger No.	51	49	100
16. Total registered tonnage, cargo Tons	5,306	4,806	10,112
17. Total registered tonnage, passenger Tons	311	451	762
18. Ton-mileage ...	169,356	152,890	322,246
19. Estimated value of cargo Rs.	87,867	126,313	2,14,180
20. Number of passengers No.	229	1,695	1,924
21. Rafts, bamboos C. ft.	650	375	1,025
22. Do., bullahs „	152	80	232
23. Estimated value of rafts Rs.	83	94	177
24. Tollage on boats „	2,957-15-6	2,672-15-9	5,630-15-3
25. Compounded tollage on boats Rs.	1-0-0	.....	1-0-0
26. Tollage on rafts „	7-8-0	4-1-0	11-9-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-14-8

	Rs. A. P.
Total tollage of month—24+25+26 ...	5,643 8
Total tollage of same month last year ...	4,812 4

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	4,774 10
2. Tollage per month ...	5,643 8
3. Total ...	10,418 2
4. Amount paid into treasury during the month ...	4,022 7
5. Balance due at the end of the month ...	6,395 10

Abstract for the month of May 1890 *as compared with the corresponding month of the previous year.*

	1890-91.		1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	5,643 8 3	11,817 3 0	4,812 4 6	10,399 1 9

CALCUTTA,
The 8th July 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of May 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
209	1. Grain ...	3,631	4	3,635	3,99,900	3,635	3,99,900	
4	2. Cotton ...	34	.....	34	18,050	34	18,050	
118	3. Oilseeds ...	1,694	.....	1,694	2,07,925	1,694	2,07,925	
143	4. Salt ...	365	1,807	2,172	2,12,905	2,172	2,12,905	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
1	6. Metal ...	2	.....	2	1,950	2	1,950	
103	7. Building materials	4,361	69	4,430	81,767	4,430	81,767	
1,210	8. Miscellaneous*	7,020	84	7,104	8,84,520	7,104	8,84,520	
392	9. Fuel ...	10,053	124	10,177	79,261	10,177	79,261	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
3 rafts	11. Bamboos ...	1,200 c. ft.	.....	1,200 c. ft.	200	1,200 c. ft.	200	
180 & 3 rafts	12. Total ...	27,160 & 1,200 c. ft.	2,088	29,248 & 1,200 c. ft.	18,86,478	29,248 & 1,200 c. ft	18,86,478	
083 & 1 raft.	13. Total of same month last year	25,388 & 50 c. ft.	3,310	28,698 & 50 c. ft.	21,38,663	28,698 & 50 c.ft	21,38,663	

* For details, see next page.

	Up.	Down.	Total.
1. Total number of boats plying cargo No.	2,038	142	2,180
2. Empty ,,	1,164	136	1,300
3. Total number of boats plying passenger No.	514	3	517
4. Total registered tonnage, cargo Tons	78,255	5,582	83,837
5. Total registered tonnage, passenger Tons	1,014	8	1,022
6. Ton-mileage ...	6,80,540	55,820	7,36,360
7. Estimated value of cargo Rs.	17,29,753	1,56,525	18,86,278
8. Number of passengers No.	2,430	21	2,451
9. Rafts, bamboos C. ft.	1,200	.....	1,200
10. Do., bullahs ,,	,, ...	.....	.....
11. Estimated value of rafts Rs.	200	... ..	200
12. Tollage on boats ,,	16,962-13-6	1,369-12-6	18,332-10-0
13. Compounded tollage on boats Rs.	.....	.....	.....
14. Tollage on rafts ,,	2-4-0	.....	2-4-0
15. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4·78
16. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-0

	Rs. A. P.
Total tollage of month—24+25+26 ...	18,334 14 0
Total tollage of same month last year ...	17,477 9 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	276 0 3
2. Tollage per month ...	18,334 14 0
3. Total	18,610 14 3
4. Amount paid into treasury during the month ...	17,718 15 9
5. Balance due at the end of the month ...	891 14 6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
87	(*a*) Jute ...	1,749	.....	1,749	2,20,387	1,749	2,20,387
34	(*b*) Jaggery ...	420	.....	420	52,875	420	52,875
13	(*c*) Sugar ...	54	.....	54	13,725	54	13,725
1	(*d*) Tobacco ...	.....	7	7	1,400	7	1,400
295	(*e*) Fish ...	92	.....	92	25,937	92	25,937
5	(*f*) Hides ...	11	.....	11	2,400	11	2,400
57	(*g*) Poultry ...	11	.....	11	9,280	11	9,280
86	(*h*) Hay and straw ...	1,080	.....	1,080	22,680	1,080	22,680
3	(*j*) Oil ...	.....	48	48	6,750	48	6,750
17	(*k*) Earthenware ...	34	.....	34	474	34	474
612	(*m*) Other miscellaneous ...	3,569	29	3,598	5,28,612	3,598	5,28,612
1,210	Total Miscellaneous...	7,020	84	7,104	8,84,520	7,104	8,84,520

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of May 1890.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
759	1. Grain ...	5,017	14	5,031	4,71,473	5,031	4,71,473	* For details, see next page.
1	2. Cotton ...	3	.....	3	1,900	3	1,900	
49	3. Oilseeds ...	702	23	725	93,112	725	93,112	
106	4. Salt ...	650	871	1,521	1,49,100	1,521	1,49,100	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....	
462	7. Building materials	7,050	152	7,202	25,106	7,202	25,106	
773	8. Miscellaneous ...	3,547	117	3,664	3,95,483	3,664	3,95,483	
153	9. Fuel ...	2,198	14	2,212	17,263	2,212	17,263	
rafts.	10. Timber ...	.....	3,344 c. ft.	3,344 c. ft.	8,360	3,344 c. ft.	8,360	
„	11. Bamboos ...	389 c. ft.	.....	389 „	65	389 „	65	
303 & rafts.	12. Total ...	19,167 & 389 c. ft	1,191 & 3,344 c. ft.	20,358 & 3,733 c. ft.	11,61,862	20,358 & 3,733 c.ft.	11,61,862	
888 & rafts.	13. Total of same month last year ...	13,616 & 372 c.ft.	510	14,126 & 372 c. ft.	10,47,557	14,126 & 372 c.ft.	10,47,557	

	Up.	Down.	Total.
Total number of boats plying cargo ... No.	2,204	99	2,303
2. Empty „	510	123	633
Total number of boats plying passenger ... No.	342	24	366
Total registered tonnage, cargo ... Tons	54,003	3,379	57,382
Total registered tonnage, passenger ... Tons	786	75	861
Ton-mileage	4,24,191	54,064	4,78,255
Estimated value of cargo Rs.	10,46,780	1,06,657	11,53,437
Number of passengers No.	2,620	345	2,965
Rafts, bamboos C. ft.	389	.....	389
Do., bullahs „	.....	3,344	3,344
Estimated value of rafts Rs.	65	8,360	8,425
Tollage on boats „	7,770-1-9	846-8-0	8,616-9-9
Compounded tollage on boats ... Rs.	.....	.....	.....
Tollage on rafts „	1-12-0	13-8-0	15-4-0
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·45
Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-6-6

	Rs. A. P.
Total tollage of month—24+25+26 ...	8,631 13 9
Total tollage of same month last year ...	6,236 2 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	353 1 9
2. Tollage per month ...	8,631 13 9
3. Total	8,984 15 6
4. Amount paid into treasury during the month ...	8,770 3 0
5. Balance due at the end of the month ...	214 12 6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
6	(a) Jute ...	88	.....	88	11,025	88	11,025	
69	(b) Jaggery ...	463	16	479	60,457	479	60,457	
1	(c) Sugar ...	1	.....	1	225	1	225	
16	(d) Tobacco ...	105	45	150	29,400	150	29,400	
73	(e) Fish ...	14	.....	14	3,857	14	3,857	
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....	
1	(g) Poultry ...	1	.....	1	112	1	112	
121	(h) Hay and straw...	349	.....	349	7,333	349	7,333	
35	(j) Oil ...	303	18	321	45,000	321	45,000	
96	(k) Earthenware ...	124	3	127	1,773	127	1,773	
355	(m) Other miscellaneous.	2,099	35	2,134	2,36,301	2,134	2,36,301	
773	Total Miscellaneous...	3,547	117	3,664	3,95,483	3,664	3,95,483	

ABSTRACT FOR THE MONTH OF MAY 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1890-91.		Traffic, 1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta and Eastern Canals ...	18,334 14 0	34,120 15 3	17,477 9 0	36,416 1 6
Tolly's Nullah	8,631 13 9	17,113 8 6	6,236 2 0	13,776 5 6
Total ...	26,966 11 9	51,234 7 9	26,713 11 0	50,192 7 0

Calcutta,
The 8th July 1890.

G. A. G. Shawe,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 5th July 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargoes.	Week ending Saturday, the 5th July 1890.			Week ending Saturday, the 6th July 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	332	49,175	721	213	63,900	980
Jute	23	12,250	213	16	8,750	141
Firewood	87	1,27,800	733	72	38,250	339
Other articles	962	2,21,170	3,433	711	1,72,400	2,425
Total ...	1,404	4,10,395	5,100	1,013	2,83,300	4,885

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of April 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	2,252	32	2,156	11	2,984	2,167	817	.....
Cotton, raw	.....	10	1	19	10	20	.....	10
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	385	.....	388	5	385	393	.....	8
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	101	7	27	124	108	151	.....	43
5.—Others	140	123	44	1,168	263	1,212	.....	949
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.	.....	15	.....	26	15	26	.....	11
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrewed	.....	86	.....	273	86	73	.....	187
2.—Gunny-bags and cloth	16	.....	21	24	16	45	.....	29
Metals—								
1.—Copper, unwrought...								
2.—Brass, unwrought								
3.—Brass and copper, wrought	78	3	66	21	81	87	.....	6
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	71	.....	87	.....	71	87	.....	16
3.—Others	232	.....	158	.....	232	158	74	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	119	718	126	1,589	837	1,715	.....	878
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	.....	959	3	57	959	60	899	.....
3.—Others	79	240	81	196	319	277	42	.....
Railway plant and rolling-stock	.....	.....	147	18	118	165	.....	47
Salt	418	.....	499	9	418	508	.....	90
Sugar—								
1.—Drained	222	612	17	2,362	834	2,379	.....	1,545
2.—Undrained								
Tobacco	28	82	58	65	110	123	.....	13
All other articles of merchandise—								
1.—Unmanufactured	624	596	365	320	1,220	685	535	.....
2.—Manufactured								
Total ...	5,465	3,483	4,244	6,287	9,066	10,531	2,367	3,832

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of April 1890.

	Tons.
Increases.	
Coal	817
For railway and flotilla consumption.	
Betel-nuts	899
Principally from the B. C. F. Company.	
Decreases.	
Oilseeds	878
A general decrease in despatches from principal stations said to be due to late crop and dull market.	
Sugar	1,545
The decrease in despatches from Jhikargachi during the month was 34,564 maunds, but Maslandpur, Gobardanga, Jadabpur, Nabharan and Jessore also show a falling off. The demand in Calcutta for date sugar appears to have absolutely ceased.	

F. P. Quinlan,
Examiner of Accounts.

Calcutta, *the 2nd July* 1890.

Tirhoot State Railway.

Statement shewing the increase and decrease of principal staples carried over the line during the month of May 1890, *as compared with the corresponding period of* 1889.

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bamboos and bricks	590	280	575	2,053	870	2,628	.....	1,758
Coal and coke	91,073	731	75,585	250	92,704	75,785	16,919	.....
Cotton	1,724	6	714	16	1,730	730	1,000	.....
Piece-goods	26,713	288	21,508	153	27,001	21,661	5,340	.....
Indigo	.....	.....	.....	6	.....	6	.....	6
Gunny bags	9,057	865	4,069	2,382	9,922	6,451	3,471	.....
Fruits	.....	.....	.....	55	.....	55	.....	55
Food-grains	.....	.....	296,011	58,138	285,441	354,149	.....	68,708
I.—Rice	5,692	212,681						
II.—Others	36,636	30,432	.....	.....	.....	.....	.....	.....
Hides and horns	70	6,280	46	5,209	6,360	5,255	1,095	.....
Lac	1,387	128	649	9	1,515	658	857	.....
Lime and kunker	16,136	544	15,765	120	16,880	15,885	795	.....
Liquors	362	14	356	11	376	367	9	.....
Metal—								
I.—Iron	22,465	256	3,701	132	22,021	3,813	18,888	.....
II.—Brass-bell, metal and copper	1,234	374	567	430	1,608	997	611	.....
Mowah	4,313	65	4,675	87	4,378	4,762	.....	384
Oil	.....	.....	2,404	150	5,464	2,554	2,910	.....
I.—Kerosine	5,012	403	.....	.....	.....	.....	.....	.....
II.—Others	43	6						
Oil-cake	140	11,346	565	9,711	11,486	10,276	1,210	.....
Paints and colours	41	50	8	.....	91	8	83	.....
Ghee	.....	3,019	82	3,526	3,019	3,608	.....	589
Railway materials	53,980	14,063	5,339	3,570	68,052	8,909	59,143	.....
Salt	1,11,387	2,611	80,447	654	113,998	81,101	32,897	.....
Saltpetre	2,241	16,830	1,890	14,692	19,071	16,588	2,483	.....
Seeds	4,206	226,117	12,865	161,565	230,413	174,430	55,983	.....
Spices	4,981	3,632	3,048	925	8,613	3,973	4,640	.....
Sugar and jaggree	4,221	7,040	3,756	3,289	11,261	7,045	4,216	.....
Tobacco	23,881	79,413	25,336	69,579	103,294	94,915	8,479	.....
Wood—								
I.—Timber	1,199	9,826	712	6,553	11,025	7,265	3,760	.....
II.—Firewood	9	.....	2,029	300	9	2,329	.....	2,320
Jute, screwed	.....	.....	.....	.....	.....	.....	.....	.....
Do., unscrewed	.....	.....	.....	.....	.....	.....	.....	.....
All other goods	24,338	22,018	15,706	23,446	47,256	39,242	8,041	.....
Total	4,54,230	6,50,218	5,78,454	3,67,011	11,04,448	9,45,465	2,32,803	73,820
					9,45,465		73,820	
					1,58,983		1,58,983	

Total quantity of goods carried during the month of May 1890 aggregated maunds 11,04,448 as compared with the maunds 9,45,465 carried during the corresponding period of 1889, and maunds 9,64,740 carried during the previous month, shewing increase of maunds 1,58,983 in one case and maunds 1,39,708 in the other.

Explanation of increases and decreases in the principal commodities carried during May 1890.

Increases.

	Mds.
Coal and coke	16,919
Due to construction of Sitamarhi extension.	
Piece-goods	5,340
Due to greater requirements of Nepal and to prosperous season.	
Gunny bags	3,471
Due to increase in bagged goods.	
Iron	18,888
Due to importation of drainage pipes for water-works at Khatmundu.	
Oil	2,910
Due to old stock having been exhausted.	
Railway materials	59,143
Due to construction of Sitamarhi and Kanwa Ghât extension.	
Salt	32,897
Due to old stock having been exhausted and to the merchants laying in a fresh stock before the rains.	
Saltpetre	2,483
Due to greater demand and favourable rates at Calcutta.	
Seeds	55,983
Due to good crop and favourable market.	
Spices	4,640
Due to greater requirements at Nepal and to old stock having been exhausted.	
Sugar and jaggree	4,216
Due to good production and favourable rates.	
Tobacco	8,479
Due to good production and favourable rates.	
Timber	3,760
Due to greater despatch by Messrs. Dear and Co. from Segowlie.	

Decreases.

	Mds.
Food-grains	68,708

Last year, owing to the scarcity in Tirhoot, a good quantity of food-grains was imported in the district, which has not been done this year as the crop is abundant; hence the decrease.

G. C. Wolfe, *Offg. Examiner.*

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for the last 9 days of June 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ...	354,418	3,28,479 11 0	24,20,366 0	5,48,029 12 0	28,009 13 0	9,04,519 4 0	86,006½	107,963½	193,970
Per mile of railway	.....	215 5 3	.....	359 3 11	18 5• 9	592 14 11	.....	.....	.....
For previous 25 weeks of half-year	6,621,125*	71,11,729 6 0*	6,33,63,232 0†	1,49,47,820 5 3†	3,43,569 9 9‡	2,24,03,119 5 0	1,637,995½§	2,399,595½§	4,037,590½
Total for 26 weeks ...	6,975,543	74,40,209 1 0	6,57,83,598 0	1,54,95,850 1 3	3,71,579 6 9	2,33,07,638 9 0	1,724,002	2,507,559½	4,231,561½
Comparison.									
Total for corresponding period of previous year	312,710	3,17,944 15 10	27,04,112 10	5,55,744 12 2	−83,244 4 11	7,90,445 7 1	75,508	105,133½	180,641½
Per mile of railway corresponding period of previous year ..	.....	208 6 9	.....	364 4 10	−54 9 1	518 2 6	.....	.....	.....
Total to corresponding date of previous year	7,079,9[illegible]½	75,82,695 1 4	7,43,42,378 20	1,62,12,447 15 4	3,57,400 13 1	2,41,52,633 13 9	1,706,220	2,610,437½	4,325,657½

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for the last 8 days of June 1889.			Receipts for the last 9 days of June 1890.			Total receipts from 1st April 1889 to 30th June 1889.			Total receipts from 1st April 1890 to 30th June 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1525½	7,90,445	518	1,525½	9,04,519	593	1,525½	1,20,26,750	600	1,525½	*1,11,39,051	562	.....	8,87,699

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for the last 9 days of June 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,205	6,883 2 0	45,332 30	2,619 9 0	64 6 0	9,566 8 0	1,191	1,832	3,023
Per mile of railway	246½	120 5 4	792 30	45 12 7	1 2 0	167 3 11	.....	.....	.....
For previous 25 weeks of half-year	*342,150	*1,68,043 2 0	†12,09,415 20	†77,480 15 0	1,152 6 0	2,46,676 7 0	38,774½	18,694	57,468½
Total for 26 weeks ...	356,355	1,74,926 4 0	12,54,748 10	80,099 15 0	1,216 12 0	2,56,242 15 0	39,965½	20,526	60,491½
Comparison.									
Total for corresponding week of previous year	11,045	5,369 10 6	45,077 30	2,952 9 0	586 3 6	8,808 7 0	1,205½	620	1,825½
Per mile of railway correspond-ing week of previous year ...	193	92 2 0	788 10	51 9 11	10 4 0	153 15 11	.....	.....	.....
Total to corresponding date of previous year	348,995½	1,80,657 13 3	12,11,434 30	68,680 2 0	2,253 1 6	2,51,591 0 9	42,987½	19,816	6,2803½

Deducted number of passengers 3,258 and Rs. 3,401 } on account of differences between the approximate and audited returns to week ended 24th May 1890.
Added maunds 212 „ 43 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for the last 8 days of June 1889.			Receipts for the last 9 days of June 1890.			Total receipts from 1st April 1889 to 30th June 1889.			Total receipts from 1st April 1890 to 30th June 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs. Pp.			Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	8,803	154	57½	9,567	167	57½	1,13,996	153	57½	*1,27,613	172	13,617	.....

* Deducted Rs. 3,461 on account of difference between the approximate and audited figures to week ended 24th May 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for the last 9 days of June 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,439	6,806 9 0	3,885 20	147 5 0	11 10 0	6,965 8 0	1,262	80	1,34
Or per mile of railway ...	.....	305 14 7	.....	6 9 11	0 8 5	313 0 11	.....	.....	.....
For previous 25 weeks of half-year	*561,516	*1,47,786 5 0	†3,72,142 30	†11,613 11 0	227 0 0	1,59,627 0 0	22,266	2,477	24,7
Total for 26 weeks ...	588,955	1,54,592 14 0	3,76,028 10	11,761 0 0	238 10 0	1,66,592 8 0	23,528	2,557	26,0
Comparison.									
Total for corresponding week of previous year	21,707	5,403 6 3	5,065 20	—455 15 0	12 3 0	5,040 10 6	1,060	40	1,1
Per mile of railway corresponding week of previous year ...	.....	246 14 0	.....	—20 7 10	0 8 9	226 15 3	.....	.....	.....
Total to corresponding date of previous year	592,725	1,55,190 6 1	2,32,126 20	8,404 8 0	207 4 0	1,63,802 2 1	24,054	1,532	25,5

* Added No. of passengers 3,359 and Rs. 757 } on account of differences between the approximate and audited returns to week ended 24th May 1890.
† Ditto Mds. 9,301 and deducted „ 20 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for the last 8 days of June 1889.			Receipts for the last 9 days of June 1890.			Total receipts from 1st April 1889 to 30th June 1889.			Total receipts from 1st April 1890 to 30th June 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,050	227	22½	6,966	313	22½	82,637	286	22½	*85,329	295	2,692	.....

* Added Rs. 737 on account of difference between the approximate and audited figures to week ended 24th May 1890.

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 21st June 1890, on 767 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles ru		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Tot
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week... ...	172,620	75,780 0 0	4,52,550 0	81,660 0 0	15,570 0 0	1,73,010 0 0	23,542	31,537	55
Or per mile of railway	2.5	99 0 0	590 0	106 0 0	†2 0 0	207 0 0	.....	.....	...
For previous 24 weeks of half-year	3,902,631	17,05,849 0 0	1,33,41,658 0*	23,79,006 0 0	4,50,697 0 0	*46,25,552 0 0	539,365	735,799	1,27
Total for 25 weeks ...	4,075,251	18,71,629 0 0	1,37,94,208 0	24,60,666 0 0	4,66,267 0 0	47,98,562 0 0	562,907	767,336	1,33
Comparison.									
Total for corresponding week of previous year	160,353	68,647 0 0	4,62,898 0	77,406 0 0	18,207 0 0	1,64,260 0 0	22,140	23,800	4
Per mile of railway corresponding period of previous year ...	238	102 0 0	688 0	115 0 0	†5 0 0	222 0 0	.....	.....	...
Total to corresponding date of previous year	3,916,704	18,21,307 0 0	1,26,57,964 0	20,69,348 0 0	4,68,886 0 0	43,54,541 0 0	538,351	600,946	1,13

* Audited up to week ending 3rd May 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 22nd June 1889.			Receipts for week ending 21st June 1890.			Total receipts from 1st April 1889 to 22nd June 1889.			Total receipts from 1st April 1890 to 21st June 1890.			* Total increase in 1890.	Total decrease 18[illegible]
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,64,300	244	767	1,73,010	226	673	19,40,033	241	757	*20,55,555	226	1,04,522	.....

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,860	10,610 0 0	39,970 0	2,450 0 0	30 0 0	13,090 0 0	3,662	2,040	5,702
Or per mile of railway	223	85 0 0	320 0	20 0 0	.....	105 0 0	.....	.....	.....
For previous 24 weeks of half-year	*684,630	2,33,584 0 0	*12,07,237 0	71,153 0 0	1,649 0 0	*3,06,386 0 0	85,193	48,711	133,904
Total for 25 weeks ...	712,490	2,44,194 0 0	12,47,207 0	73,603 0 0	1,679 0 0	3,19,476 0 0	88,855	50,751	139,606
Comparison.									
Total for corresponding week of previous year	29,174	11,408 0 0	48,189 0	2,092 0 0	47 0 0	13,547 0 0	3,735	1,959	5,694
Per mile of railway corresponding period of previous year ...	233	91 0 0	386 0	17 0 0	.....	108 0 0	.....	.....	.....
Total to corresponding date of previous year	737,774	2,03,289 0 0	13,87,246 0	79,805 0 0	5,049 0 0	3,48,143 0 0	92,063	48,688	140,751

* Audited up to week ending 3rd May 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 22nd June 1889.			Receipts for week ending 21st June 1890.			Total receipts from 1st April 1889 to 22nd June 1889.			Total receipts from 1st April 1890 to 21st June 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	13,547	108	125	13,090	105	125	1,70,402	114	125	*1,49,017	99	.....	21,385

* Audited up to week ending 3rd May 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	19,690	5,330 0 0	14,810 0	1,230 0 0	230 0 0	6,790 0 0	2,460	690	3,150
Or per mile of railway	229	62 0 0	172 0	14 0 0	3 0 0	79 0 0	.....	.....	.....
For previous 24 weeks of half-year	408,153	1,25,244 0 0	5,41,893 0	51,218 0 0	3,831 0 0	*1,80,293 0 0	57,209	18,688	75,897
Total for 25 weeks ...	427,843	1,30,574 0 0	5,56,703 0	52,448 0 0	4,061 0 0	1,87,083 0 0	59,669	19,378	79,047
Comparison.									
Total for corresponding period of previous year, ...	16,174	4,820 0 0	17,875 0	879 0 0	261 0 0	5,960 0 0	2,414	690	3,104
Per mile of railway corresponding period of previous year	188	56 0 0	208 0	10 0 0	3 0 0	69 0 0	.....	.....	.....
Total to corresponding date of previous year	383,464	1,16,220 0 0	3,91,592 0	26,013 0 0	4,810 0 0	1,47,943 0 0	61,425	19,622	81,047

* Audited up to week ending 3rd May 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 22nd June 1889.			Receipts for week ending 21st June 1890.			Total receipts from 1st April 1889 to 22nd June 1889.			Total receipts from 1st April 1890 to 21st June 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,960	69	86	6,790	79	86	65,286	63	86	*73,798	72	8,512	.....

* Audited up to week ending 3rd May 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 21st June 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	5,324	a1,958 0 0	12,165 0	771 0 0	13 0 0	2,742 0 0	509	254	763
Or per mile of railway	195	72 0 0	446 0	28 0 0	1 0 0	101 0 0	.....	.....	.....
For previous 23 weeks of half-year	78,598	28,798 0 0	2,82,601 0	17,098 0 0	2,212 0 0	48,108 0 0	12,189	11,880	23,569
Total for 24 weeks ...	83,922	30,756 0 0	2,94,766 0	17,869 0 0	2,225 0 0	50,850 0 0	12,698	11,634	24,332
Comparison.									
Total for corresponding week of previous year	3,499	1,295 0 0	8,106 0	499 0 0	146 0 0	1,940 0 0	509	418	927
Per mile of railway corresponding week of previous year ...	128	48 0 0	297 0	18 0 0	5 0 0	71 0 0	.....	.....	.....
Total to corresponding date of previous year	85,743	32,580 0 0	2,70,443 0	16,898 0 0	2,220 0 0	51,698 0 0	12,961	10,607	23,568

a Increase is due to "*Bathing Mela*" on account of *Solar Eclipse*.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 22nd June 1889.			Receipts for week ending 21st June 1890.			Total receipts from 1st April 1889 to 22nd June 1889.			Total receipts from 1st April 1890 to 21st June 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,940	71	27¼	2,742	101	27¼	23,368	71	27¼	22,137	68	.....	1,231

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 21st June 1890, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	79,790	a35,147 0 0	1,81,964 0	18,951 0 0	2,294 0 0	56,392 0 0	6,793	7,002	13,795
Or per mile of railway	292	129 0 0	667 0	69 0 0	8 0 0	201 0 0*	.....	.....	.....
For previous 23 weeks of half-year	1,101,030	4,40,021 0 0	59,14,221 0	6,74,836 0 0	77,308 0 0	11,92,765 0 0	121,729	223,214	344,943
Total for 24 weeks ...	1,180,820	4,75,768 0 0	60,96,185 0	6,93,787 0 0	79,602 0 0	12,49,157 0 0	128,522	230,216	358,738
Comparison.									
Total for corresponding week of previous year	40,701	14,338 0 0	2,21,170 0	18,562 0 0	4,360 0 0	37,260 0 0	4,748	5,692	10,440
Per mile of railway corresponding week of previous year ...	149	52 0 0	810 0	68 0 0	1 0 0	121 0 0*	.....	.....	.....
Total to corresponding date of previous year	1,079,249	4,03,526 0 0	40,39,167 0	3,82,499 0 0	99,240 0 0	8,85,265 0 0	120,718	140,834	270,552

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."
a Increase is due to "*Bathing Mela*" on account of *Solar Eclipse*.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for week ending 22nd June 1889.			Receipts for week ending 21st June 1890.			Total receipts from 1st April 1889 to 22nd June 1889.			Total receipts from 1st April 1890 to 21st June 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	37,260	136	273	56,392	206	273	4,72,886	144	273	5,49,938	168	77,052	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 7th June 1890	12,595
Corresponding period of 1889	9,593
Increase	3,002
	Rs. A. P.
Receipts per mile open, week ending 7th June 1890	246 15 4
Corresponding period of 1889	188 1 9
Increase	58 13 7
Receipts from 1st January to 7th June 1890	2,29,429
Corresponding period of 1889	2,32,576
Decrease	3,147

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No. 29 of 1890.

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PUBLIC HOLIDAYS IN BENGAL.

No. 1289, dated Simla, the 3rd July 1890.

From—C. J. LYALL, ESQ., C.I.E., Offg. Secy. to the Govt. of India, Home Dept.,
To—The Secretary to the Government of Bengal, Financial Department

I AM directed to acknowledge receipt of your letters No. M $\frac{1-H}{1}$ 28, dated 19th April, and No. M $\frac{1-H}{2}$ 16, dated the 21st April last, to the address of the Department of Finance and Commerce, with which His Honour the Lieutenant-Governor submits a correspondence which has passed between the Government of Bengal and various Public Bodies and Associations, and makes proposals for the notification of certain days as public holidays in the Lower Provinces of Bengal under section 25 of the Negotiable Instruments Act.

The Lieutenant-Governor recommends that the holidays which have hitherto been gazetted as public holidays under section 25 of the Act should in future be distributed between two notifications, the first, issued under the Act, dealing with those Hindu holidays only the observance of which is absolutely required in order to enable Hindu employés, whether in the service of Government or of

private persons, to fufil their religious duties, and the second, issued as an executive order, including the remaining days hitherto observed as public holidays and applicable to all public offices and Magisterial and Revenue Courts under the Government of Bengal. It is explained that the ground of the distinction made is that the former class, which are days of religious obligation, are distinct from the latter, which are days of social observance only; that the effect of notifying all holidays without distinction under the Negotiable Instruments Act is to interfere most seriously with trade, shipping, and monetary business; and that the course which is recommended in regard to the Hindu holidays included in the second notification is that which has always been pursued in regard to all Muhammadan holidays, and has not been found to cause inconvenience. His Honour has no intention of in any way curtailing the holidays at present allowed to public servants in Bengal, but merely wishes to remove what he regards as a reasonable source of complaint to the mercantile community, who are unable to transact business on days notified under the Act, although large numbers of vessels arrive by sea and leave the port of Calcutta, large quantities of goods are received by rail, and bills mature and ought to be paid.

2. In reply, I am to say that the Governor-General in Council has carefully considered the proposals made in your letter and the correspondence forwarded with it, and desires me to convey his acknowledgments of the thoroughness with which the matter has been investigated and the thoughtful and considerate spirit in which His Honour the Lieutenant-Governor has dealt with this difficult subject. The main principle of the proposals, to make a distinction between those holidays which require to be notified under the Negotiable Instruments Act and those which do not require to be so notified but may be allowed as a matter of executive arrangement, is one which has long been recognized in other Presidencies, and has in fact been always in force in Bengal in regard to the Muhammadan holidays, which are observed by one-third of the population of the province. It appears to the Government of India that, in view of the consequences which ensue from the notification of holidays under the Act, such notification should clearly be restricted to those days when a cessation of business is absolutely necessary, and that there is no need to apply the same process to days which are only occasions for festive and social gatherings. The proposals made by the Lieutenant-Governor have reference only to the Durga Puja holidays, and in regard to these it is shown, in paragraph 10 of your letter, that the restrictions upon business which the system hitherto followed imposes are not observed by the native community themselves. His Honour writes:—

> It is not to be forgotten that in all places in Bengal, and especially in Calcutta, the Durga Puja holidays are the season of the busiest life in all the year. The shop-keepers have no holiday, the cloth-sellers, the money-changers, the confectioners, the grocers and the general dealers are busy all day long; in the bazar there is no holiday, but business is as brisk as it can be. The clerks and sircars in the bazar are not idle men. It is only in the public offices that stagnation reigns. It is not therefore a real or just ground for complaint if in a few public offices for public reasons a few clerks are required to attend office on certain days which are allowed to remain holidays to the great majority of clerks employed in the public service.

What is here stated regarding the activity of trade during the Durga Puja holidays is confirmed by the following passage in the letter from the Secretary to the Bengal National Chamber of Commerce, dated the 27th March 1890:—

> The Committee beg further to observe they take particular note of the fact that trade is very brisk during the Puja holidays, the demand for a number of articles being larger during the twelve days than throughout the rest of the year. This may be explained by reason of the large influx of people from all parts of the country bent upon making the most of the holidays. The curtailment of the holidays must necessarily involve a serious pecuniary loss to the trade.

For these reasons, while regretting that the arrangement proposed by His Honour the Lieutenant-Governor should not commend itself to those representatives of the Hindu community whose replies are enclosed in your letter, the Government of India sanctions the proposals made, and authorizes the issue of the notifications forwarded by you.

I am, however, to observe that if the Governor-General in Council rightly understands the letters from Mahámahopádhyáya Mahesh Chandra Nyáyaratna, dated the 4th and 14th November 1889, it would seem that the 23rd October

is one of those days which should be set apart as required for religious observance, and His Excellency in Council would suggest, for the consideration of His Honour the Lieutenant-Governor, that it might be added to the 20th, 21st, and 22nd October in the list of holidays to be notified under the Act. If this is done the balance might be redressed by removing the 24th December from the holidays to be gazetted under the Act, and entering it as an office holiday in the other notification.

3. The Governor-General in Council accepts the proposals of His Honour the Lieutenant-Governor as regards the offices under the Government of Bengal to be kept open during the holidays which will henceforth not be notified under the Act. In all these offices special arrangements should be made, by contracting the hours of business, by limiting the work undertaken to what is really urgent, by granting leave to Hindu employés wherever practicable, and by utilizing as much as possible the services of their non-Hindu fellow-clerks to minimise the inconvenience which may be felt by those who have hitherto enjoyed close holidays on the days which will in future be open. Under proper arrangements, so far from hardship being entailed on any considerable section of the community, not more than three or four Hindu clerks under the Government of Bengal are likely to be affected by the change. Separate orders to the same effect will be given by the Government of India in regard to the offices directly subordinate to it which are situated in Calcutta.

4. I am to request that, with the Lieutenant-Governor's permission, this letter and yours to which it is a reply, with the enclosures of the latter commencing with your letter Nos. M $\frac{1-H}{1}$ 18-22, dated the 19th January last, and the two letters from Pandit Mahesh Chundra Nyáyaratna, may be published for general information in the *Calcutta Gazette*.

No. M $\frac{1-H}{2}$ 16, dated Calcutta, the 21st April 1890.

From—H. J. S COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
To—The Secretary to the Government of India, Dept. of Finance and Commerce.

I AM directed to submit, for the consideration and orders of the Government of India, a copy of the marginally noted correspondence which has passed between this Government and various local Associations and Offices regarding the notification of public holidays in the Bengal Province.

Letter from the Bengal Chamber of Commerce, No. 944—89, dated 22nd November 1889, and enclosures.

Government letter No. Mis. $\frac{1-H}{1}$ 16, dated 11th December 1889, with enclosure.

Government letters Nos. Mis. $\frac{1-H}{1}$ 18-33, dated 19th January 1890, and annexure.

Government letters Nos. Mis. $\frac{1-H}{1}$ 34-35, dated 20th January 1890.

Letter from the Port Officer and Shipping Master, Calcutta, No. $\frac{S}{107}$, dated 30th January 1890.

Letter from the Registrar of Calcutta, No. 75, dated 3rd February 1890.

Letter from the Superintendent and Remembrancer of Legal Affairs, No. 1328, dated 4th February 1890.

Letter from the Bengal Chamber of Commerce, No. 73, dated 7th February 1890.

Letter from the Bank of Bengal, dated 10th February 1890.

Letter from the Exchange Banks, dated 11th February 1890.

Government letter No. 985, dated 17th February 1890.

Letter from the Calcutta Trades' Association, dated the 24th February 1890.

Letter from the Bengal Chamber of Commerce, No. 131—90, dated the 26th February 1890.

Demi-official from the Bengal Chamber of Commerce, No. 173, dated the 7th March 1890.

Letter from the Board of Revenue, No. 206B., dated the 20th March 1890.

Letter from the Indian Association, No. 60, dated the 15th March 1890.

Letter from the Bengal National Chamber of Commerce, dated the 27th March 1890.

Letter from the British Indian Association, dated the 7th April 1890.

2. The history of the question is given in my circular letter of the 19th January to the Bengal Chamber of Commerce and other Associations. The holidays notified under the Negotiable Instruments Act in Bengal are now exactly the same as those which were sanctioned by the Government of India on the 29th October 1867. Although the Chamber of Commerce have not ceased to press for their reduction, their representations have, with reference to the orders passed by the Government of India on the 28th January 1880, and reiterated in 1882, been invariably rejected by this Government. A copy of the reply sent by the Lieutenant-Governor to the Chamber of Commerce in 1888 was transmitted to the Government of India with my letter No. M $\frac{1-H}{1}$ 7, dated 17th September 1889. A copy of a correspondence with the Chamber in 1889 is

among the enclosures now submitted. In the orders issued by Government on that occasion it was pointed out that the reasons adduced by the Government of India in 1882 against any reduction in the number of holidays were in full force, and the following extract from your letter No. 3712, dated 12th September 1882 was quoted:—

"The Governor-General in Council is aware that the closing of the Government offices in Calcutta for a period of 12 days is productive of some inconvenience to the mercantile community, but on the other hand it cannot be overlooked that, in the words of the Lieutenant-Governor of Bengal the inconvenience and loss which the mercantile community suffer from the existing state of things, great and serious as they are, cannot be remedied without inflicting a still more serious hardship on a far more numerous, though less influential, portion of the community."

3. A new suggestion has, however, now been made, which it is believed will be able to satisfy the reasonable requirements both of the European commercial body and of the Hindu community. When the holidays for the current year were notified under the Negotiable Instruments Act by Government, a deputation from the Chamber of Commerce waited on the Lieutenant-Governor at Belvedere in December last, and strongly pressed upon His Honour the necessity of modifying the form of notification by which public holidays were gazetted. The deputation laid stress on the alteration which the passing of the Negotiable Instruments Act had introduced into the conditions of the problem since the decision of Government was arrived at ten years ago, and indicated that it might be found possible to find a solution of an admitted difficulty by restricting the number of holidays gazetted under the Act, but at the same time retaining by executive authority the existing number of holidays for all public offices save the few which are indispensable to the foreign commerce of the port. The question thus stated was then very carefully considered by the Lieutenant-Governor, and the result was the issue of the circular letter of the 19th January, to which I am to request that a reference may be made by the Government of India for a *resumé* of the discussion as well as of the arrangements it is proposed to adopt. His Honour's views are so fully expressed in that letter that it is not necessary to enter again upon the subject at any length.

4. Briefly speaking, it is now proposed to notify holidays in Bengal under two separate notifications: first, in regard to public holidays notified as such under the Negotiable Instruments Act; and, secondly, in regard to holidays which are notified as such by the closure of public offices. These two separate notifications would be in the form given and apply to the days specified in the draft notifications annexed to this Government letter of the 19th January.

5. Before publishing these notifications or applying to the Government of India for permission to modify the form in which public holidays are notified in Bengal, the Lieutenant-Governor desired that the Bengal Chamber of Commerce, the Bengal National Chamber of Commerce, the Calcutta Trades' Association, the British Indian Association, the Indian Association, the Bank of Bengal, the Exchange Banks, and the Heads of the Offices immediately concerned, should be consulted; and it will be seen from the replies which form an enclosure to this letter that the proposal has elicited considerable difference of opinion. The Bengal Chamber of Commerce, the Bank of Bengal, the Trades' Association, and the Board of Revenue give it their concurrence. But the letter from the Exchange Banks accords only a hesitating and incomplete support. The managers of these banks would evidently prefer to retain intact the holidays notified under the Act. They express themselves as perfectly willing to accept the proposals put forward by Government, if only the majority of the mercantile community is in favour of them. But they observe that "it has not been effectively demonstrated, by general vote or otherwise, whether reduction of holidays finds favour or disfavour among the majority at the present time." Looking to the importance of this question, the Lieutenant-Governor deemed it right to transmit the letter of the Exchange Banks to the Chamber and to consult the Committee again on the subject. Accordingly, upon the 17th February, I was directed to inform the Chamber that although the Lieutenant-Governor had no doubt that the opinion of the Chamber as a body had been expressed in the letter already received from their Secretary, yet, with reference to the observation made by the Exchange Banks, it would be more satisfactory to Government if, with the permission of the President

and Committee, it could be stated approximately how far the doubt expressed by the Banks, "whether a majority of the (mercantile) community is in favour of fewer holidays," can be set at rest by reference to the relative number of supporters of either view among the members of the Chamber. In reply to this letter the Committee intimated that they were unable to comply with the suggestion of Government that a formal vote of the Chamber should be taken on the question; but on occasion of the Annual Ordinary Meeting of the Chamber, the President, Sir Alexander Wilson, referred to the subject in his address, and in the course of the proceedings called for an informal vote as an expression of the Chamber's opinion. The result is reported to have been the unanimous confirmation of the views expressed by the Committee. The list of gentlemen present at this meeting is given in Mr. Clarke's demi-official letter of the 7th March, and it appears to the Lieutenant-Governor to contain as complete a representation of the mercantile interests of the port as it could be possible to assemble together for such a purpose. Although, as stated in my letter to the Chamber, it would have been more satisfactory to Government to have received an official reply as to whether any considerable minority of their members was opposed to any change, the Lieutenant-Governor has no doubt that the expression of opinion of the members of the Chamber on the occasion of their Annual General Meeting may be accepted as conclusive proof of the views of the overwhelming majority of the mercantile community of Calcutta. This opinion is in accordance with the views expressed by the Bank of Bengal, the best judge of the requirements of the commercial public, by the Trades' Association, and by the Committee of the Chamber, during a period of agitation for thirty years.

6. On the other hand the Bengal National Chamber of Commerce, the Indian Association, and the British Indian Association are opposed to any change in the method of notifying the existing holidays. Their letters are enclosed, and are entitled to the consideration they deserve as undoubtedly representing the great mass of Hindu opinion on the subject. But the Lieutenant-Governor does not find that they bring forward any new arguments or raise any objections which have not already been met by anticipation and fully replied to in my letter of the 19th January. The British Indian Association are, indeed, prepared to admit that the Currency Office and Shipping Office should be kept open during some of the holidays along with the Custom House. The National Chamber of Commerce and the Indian Association are not willing to make any concession. Their apprehension is, as the National Chamber of Commerce puts it, that the Government proposals are "but the thin end of the wedge, which in time must bring about the total abolition of the Doorga Poojah holidays in all public offices."

7. With reference to this remark, I am to explain that the objection of the native associations appears to be based in a large measure on a misconception of the arrangements proposed by Government. The effect of a notification under the Negotiable Instruments Act is that Promissory Notes or bills of exchange do not mature on the holidays therein specified, but are deemed to be due on the next preceding business day, and it is complained by the mercantile community that business is to a large extent paralysed when there are twelve such holidays in succession. There can be no dispute of the justice of this complaint and of the great inconvenience which the present procedure affords to the commercial public. The great increase in the number of steamers visiting the port, and the consequent necessity of expedition in despatching them, has also largely augmented the inconvenience caused by a twelve days' continuous closure of the offices to the trade of the port. To remedy these grievances, it is proposed that the number of holidays under the Act should be reduced; but it is not proposed that the number of holidays in Government offices generally should be diminished, and the executive order which it is intended to issue sufficiently shows that they will continue to be closed for the same period as at present. Nor will the promulgation of these parallel orders produce any perceptible effect upon the general body of the Hindu community. Certain social festivals of the Hindus will be placed on the same footing as Mahomedan holidays. But in both cases reasonable facilities will be afforded by Government for carrying on business. This is now done in the case of Mahomedan holidays and ought to be done in the case of Hindu social festivals.

On the other hand, certain Mahomedan holidays are now granted by executive order, and are, as a matter of fact, universally enjoyed in all parts of Bengal except in certain specified offices at the Presidency. The opening of these particular offices does not in any way govern the practice elsewhere, and we may expect that certain Hindu holidays, if notified in the same way as Mahomedan holidays as days upon which certain offices in Calcutta will be open, will be accepted in exactly the same way as Mahomedan holidays are now accepted.

8. The view which the British Indian Association appear to hold that the holidays under the Act should not be altered, but that by executive order the holidays in certain offices should be reduced, does not in any way meet the difficulty of which the commercial community complain. The opening or closing of a particular public office (important as it is that the offices should remain open) does not so much impede the transaction of public business as the declaration that for twelve days in succession exchange bills receivable cannot be legally collected, and Promissory Notes payable cannot be legally paid. The only manner in which this difficulty can be met is by reducing the number of holidays notified under the Act. And this is what it is now proposed to do without at all interfering with religious prejudice. The proposals now made declare that all days necessary for the performance of religious ceremonies shall be holidays under the Act. The remaining days of the Doorga Poojah, which are devoted to social festivities, are no longer included in the category of such holidays: but in order to allow every possible concession to the claims of Hindu clerks who are employed in public offices, it is proposed to declare by executive order that these offices, with a few specified exceptions, shall remain closed as they are at present. A distinction is drawn between holidays notified under the Act and those declared in public offices by executive order, and it seems to the Lieutenant-Governor that, by the recognition of this clear distinction, a compromise has at last been found, in the only way in which it was possible to find it, which satisfactorily meets the reasonable claims of the Hindu community as well as the interests of trade and commerce.

9. The Registrar of Calcutta and Shipping Master are opposed to the exclusion of their offices from the holidays notified by executive order, but in the opinion of the Lieutenant-Governor the arguments adduced by these officers are of no validity. The commercial community have always objected, and with reason, to the closing of the Registration Office for twelve consecutive days; and although, as represented by the Registrar, the number of documents presented for registration at this season is likely to be inconsiderable, it is apparent from this fact that a small establishment will be sufficient for carrying on the work, and that the hardship of attending office will therefore be felt by very few. The Shipping Office is one which, in the interests of the Port, it is absolutely necessary to keep open on every day on which it is possible to do so.

10. The Lieutenant-Governor has the strongest sympathy with the very general desire of the Hindu community that no obstacle should be placed by Government in the way of its Hindu employés meeting together at their homes, at the season of the Doorga Poojah holidays, for the celebration of religious, social, and domestic ceremonies. It is far from His Honour's desire to encourage any policy which would deprive Hindu employés as a body of the satisfaction of enjoying their great annual festival in the future as they have done in the past. There is nothing, however, in the proposals now made which, in the Lieutenant-Governor's opinion, is likely to lead to any such unfortunate result. It is true that a few clerks employed in a few offices may be subjected to some inconvenience by being required to attend office on days on which they now get a holiday. But the inconvenience is one which they must bear in the public interest. They will enjoy some compensating advantages. And it is not to be forgotten that in all places in Bengal, and especially in Calcutta, the Doorga Poojah holidays are the season of the busiest life in all the year. The shop-keepers have no holiday, the cloth-sellers, the money-changers, the confectioners, the grocers and the general dealers are busy all day long; in the bazar there is no holiday, but business is as brisk as it can be. The clerks and aircars in the bazar are not idle men. It is only in the public offices that stagnation reigns. It is not therefore a real or just ground for complaint if in a

few public offices for public reasons a few clerks are required to attend office on certain days which are allowed to remain holidays to the great majority of clerks employed in the public service.

11. Having regard to the correspondence with the Government of India on the subject of holidays in Bengal on previous occasions, the Lieutenant-Governor does not wish to take action in the direction now proposed without the previous sanction of His Excellency the Governor-General in Council. I am now to request that this sanction may be accorded and permission given to publish the draft notifications which are the annexure to my letter of the 19th January. It will be seen that the opinion of the law officers of Government has already been obtained that there appears to be no legal objection in the way to prevent the Government from cancelling the notification of public holidays already published at page 1010 of Part I of the *Calcutta Gazette* of 11th December 1889, and substituting in its place a new list.

12. I am to add that the executive order of the Government of Bengal, under which the public offices under this Government (excluding those specified in the notification) will be closed during certain days of the Doorga Poojah holidays in the same manner as these offices are now closed on the occasion of Mahomedan festivals, will obviously have no force in regard to offices under the Government of India, and the Lieutenant-Governor would therefore venture to recommend that the benefit of similar orders may be extended generally to the offices under the Supreme Government employed in the Lower Provinces. It will no doubt be necessary to exempt certain offices from the effect of such an order, as has been done in regard to offices under the Bengal Government; and in the opinion of the Lieutenant-Governor, as intimated in a separate letter of this day's date, the Currency Office should be so exempted; but it may easily be arranged that in these offices, as in the excepted offices under the Government of Bengal, if it be found impossible to grant the Hindu employés their holidays during the excluded days of the Doorga Poojah festival, they should not be required to attend in larger numbers than are actually necessary for the transaction of business, and that other concessions in the way of leave at other times should be given to them.

Nos. Mis. $\frac{1\text{-H}}{1}$ 18-22, dated Calcutta, the 19th January 1890.

From—H. J. S. COTTON, Esq., Officiating Secretary to the Govt. of Bengal, Financial Department,

To—The Secretary to the Bengal Chamber of Commerce; Secretary to the Bengal National Chamber of Commerce; Secretary to the Calcutta Trades' Association; Secretary to the British Indian Association; and Secretary to the Indian Association.

I AM directed to inform you that the Lieutenant-Governor has again had his attention drawn to the question of the number of public holidays in the Bengal Province, and to communicate to you the following observations on the subject, with a request that they may be laid before $\frac{\text{the Bengal Chamber of Commerce.}}{\text{your Association, the Bengal National Chamber of Commerce.}}$ and that you will be so good as to furnish the Lieutenant-Governor with the opinion of the $\frac{\text{Chamber}}{\text{Association}}$ on the suggestions made, as well as with any further remarks on the subject which the $\frac{\text{Chamber}}{\text{Association}}$ may wish to offer.

2. It appears to the Lieutenant-Governor to be unnecessary to discuss the early history of the question, but in recent times it is material to note the following points:—

3. In 1860 the Bengal Chamber of Commerce suggested that holidays should be reduced to the days actually required for the ceremonial observances of the Hindu religion. A Committee, consisting of Messrs. J. J. Harvey, W. S. FitzWilliam, and Baboo Prosonno Kumar Tagore was appointed, and recommended, among other things, that the Doorga Poojah holidays should be 14 days for Hindus and 10 days for all other Government servants. These proposals were accepted by the Local Government, but on the 15th April 1862 they were set aside by the Government of India, and 27 days (including

12 days for the Doorga and Lakhi Poojahs) were declared public holidays. The number of days was raised to 30 by the order of the Government of India dated 29th October 1867, and the general holidays * then sanctioned have remained unchanged up to the present time.

* Holidays fixed in 1867.	Number of days.
New Year's Day ...	1
Good Friday and following day	2
Queen's Birthday ...	1
Christmas ...	3
Sri Punchomi ...	2
Dole Jattra ...	1
Choit Sankranti ...	1
Dashera ...	1
Janmostomi ...	1
Mahaloya ..	1
Doorga and Lakhi Poojahs	12
Kali Poojah ...	2
Juggudhatri Poojah ...	2
	30

4. In 1874 the Chamber of Commerce recommended that the Doorga Poojah holidays should be reduced from 12 days to one week, and this proposal was supported by Sir George Campbell. Much opposition was, however, raised, and the proposal was rejected by the Government of India. Arrangements were, however, made for facilitating business in the Custom House, which it was ordered should remain closed for one week only.

5. In 1875 the Calcutta Trades' Association urged that the Doorga Poojah holidays should be reduced to the days of actual religious observance, and it was then directed that the Custom House should remain closed for five days only. The proposal that the Bank of Bengal should be closed for five days only was then rejected by the Government of India.

6. In 1878 the Chamber of Commerce again addressed Government, requesting "that the Doorga Poojah holidays be reduced and restricted to the four days which they understand are absolutely necessary for the observance of that annual festival, with the proviso that, should the festival terminate on a Friday, the holidays be extended so as to admit of business being resumed on the following Monday."

7. A representative Committee was appointed to consider and report on the question. The majority† reported as follows:—

† Mr. G. Yule. | Mr. S. Cochrane.
„ C. J. Brookes. | „ J. D. Maclean.

"That only the four days required for strictly religious purposes be close holidays;

"That if the fourth religious day fall on Friday, the offices shall not re-open till the following Monday;

"That the Public Debt Office, the Treasury, the Currency Office, the Money-order Office, the Stamp Office, and all Pay offices be closed on these four days only, but that in other Government offices the Heads of Departments shall have discretion to give leave to their subordinates for the whole or any part of the twelve days, provided the current work of their office is carried on."

8. The two Hindu Members‡ of the Committee recorded a dissent which concluded as follows:—

‡ Baboo Kisto Das Pal.
„ Durga Churu Law.

"Considering that the arrangements made by Government in 1874, by which the Custom House is kept open during the Doorga Poojah vacation, except for five days, and the jetties work without intermission, the inconvenience to the trade of the city is not serious; that the number of holidays in Bengal is less than that in the other provinces; that a general vacation of seven or eight days during Christmas does not in any way affect or inconvenience commerce in Madras and the North-Western Provinces; that the present Doorga Poojah vacation is necessary for the observance of the religious and social ceremonies of the Hindus; that it is a general holiday for all classes of public servants for rest, recreation and travelling; that it affords almost the only opportunity to the lower grades of officers to visit their mofussil homes once a year; that in a sanitary point of view a prolonged rest of 12 to 15 days in a year is of great importance, as it enables the officers of Government to discharge their duties much more satisfactorily than what they could do if no periodical rest was allowed; and that its curtailment would give rise to much hardship and dissatisfaction among the Hindu as well as other servants of Government, and also among the general public whose business engagements are regulated by the practice in the public offices, we are of opinion that no change in the present Doorga Poojah holidays is called for."

9. Mr. Dampier, the President of this Committee, recorded a separate memorandum, in which he stated that the recommendation of the majority of the Committee "amounted to a proposal that all public offices shall be kept open, and that all persons who are engaged in business must attend to business on all but the four close days." But he considered that the mercantile community had made out a case for some reduction in the length of the holidays, and suggested that the number of days should be summarily curtailed from 12 to 9 or 8.

10. The papers of the case were transmitted to the Government of India with a letter from this Government, No. 3809, dated 12th September 1879. In that letter the Lieutenant-Governor observed:—

"It may be conceded that the curtailment of the holidays proposed by the majority of the Committee will not interfere with any *bonâ fide* religious prejudices of the Hindu community. Any shortening of the vacation may prevent social ceremonies, visits home, and the enjoyment of the rest and recreation of a holiday; but when the question of opening the Custom House was discussed in 1874 to 1876, it was clearly decided that five days are all that are necessary for the purely religious observances of Hindus during the Doorga and Lakhi Poojahs, and this decision must be considered applicable to the Hindu clerks in all other offices. It must be accepted also as regards Bengal that on days when Hindu employés are authorised to be absent, offices cannot remain open, and that, whatever rule is laid down for the Bank of Bengal, the Currency and Pay offices at the Presidency must of necessity govern the holidays of all or almost all the other offices in Bengal. The partial opening of offices during the latter portion of the vacation, as suggested in the third proposal of the majority of the Committee, is not really practicable, and their recommendation amounts to this, that all public offices shall be kept open on all but the four days of religious observance."

11. The question as a balance of convenience was then discussed by the Bengal Government, and it was recommended that there should be no alteration in the present holidays.

12. This recommendation was not accepted by the Government of India, and in orders dated 4th October 1879 it was directed that effect should be given to the proposals of the majority of the Committee.

13. On the return of the Government of India to Calcutta, the orders of the 4th October were cancelled. In a letter dated 28th January 1880 it is written:—

"Since his return to the Presidency, His Excellency the Governor-General in Council has found reason to doubt whether the Government of India allowed sufficient weight to the inconvenience which will be entailed by the enforcement of this decision upon the Hindu community of Calcutta and some other parts of Bengal, and to the strength of the popular attachment to these annual holidays.

"On the other hand, His Excellency is disposed to think that he may have underrated the extent to which the complaints of the mercantile community may be obviated, or at least mitigated, by careful arrangements in the several public offices to meet their requirements."

14. It is then ordered that "the observance of the Doorga Poojah holidays in the public offices in Calcutta shall continue as heretofore," and the Bengal Government are enjoined to take measures to meet, as far as possible, the convenience of the mercantile community.

15. In 1882 the Chamber of Commerce again urged that the Doorga Poojah holidays should be restricted to the four close days which are alone observed as religious holidays. But both the Government of Bengal and the Government of India refused to re-open the question.

16. During 1886 and 1887 the Chamber of Commerce made several representations on the subject of Custom House holidays and the general routine of Custom House business. Special objection was taken to the continuous closing of the Custom House for periods varying from two to seven days. In 1888 a Committee* was appointed to enquire into the whole question, and submitted the following recommendation:—

* Mr. C. P. L. Macaulay.
„ R. Steel.
„ E. D. Wylie.
„ J. Scobell Armstrong.

"It has hitherto been the usage that the Custom House should not be opened on any gazetted holiday for any purpose free of charge, except on certain days in the long holidays of the Doorga Poojahs. This practice appears to us not to be suited to the requirements of the trade of Calcutta. We recommend that for the Custom House, as distinguished from the Preventive Department, Sundays, New Year's Day, Good Friday, the Queen's Birthday and Christmas Day should in future be held to be absolutely close holidays, but that on the week days for which the office is closed in the Doorga Poojahs, and on all ordinary gazetted holidays other than the days mentioned above, the Custom House should be opened free on charge for one hour, viz., from 11 A.M. to 12 noon, all work applied for up to 12 o'clock being carried through, provided that notice is given to the Assistant Collector before closing hours of the day previous, or if this be a holiday, 24 hours in advance, that it is required to have the office so opened. On such opening, vessels would be allowed to enter and clear on the import and export sides, and provisional bill-of-entry for free goods as well as shipping bills for free goods issued, but the treasury would, as in Bombay, remain closed. It is understood that arrangements can be made to carry out this in the Doorga Poojah holidays without obliging Hindu clerks to attend. The above change will further not affect the opening of the Custom House as heretofore on such advertised days as may be fixed on

in the Doorga Poojah holidays for the receipt of duty and complete transaction of Custom House business."

17. These proposals were sanctioned by the Local Government.

18. In 1888 and in 1889 the Chamber of Commerce have made further representations to Government, urging that "only those days should be declared public holidays under the Negotiable Instruments Act which are actually required to be devoted to necessary religious ceremonies." To these letters the Government has replied at length reciting the arguments which were accepted by the Government of India in 1880 and 1882. It has been pointed out "that the inconvenience and loss which the mercantile community suffer from the existing state of things, great and serious as they are, cannot be remedied without inflicting a still more serious hardship on a far more numerous, though less influential, portion of the community." The Government was unable to comply with the wishes of the Chamber, and on the 11th December 1889 a notification was published in the Gazette, under which the holidays declared under section 25 of the Negotiable Instruments Act will remain the same in 1890 as they have been in previous years.

19. In consequence of the publication of this notification, a deputation from the Chamber, consisting of Sir A. Wilson, Mr. Wylie, Mr. McCaw and Mr. Stuart, waited on the Lieutenant-Governor at Belvedere on the 19th December 1889, and strongly pressed upon His Honour the necessity of reducing the number of holidays under the Act. They laid stress on the alteration which the passing of the Negotiable Instruments Act has introduced into the conditions of the problem since the decision of Government was arrived at in 1879, and they indicated that it might be possible to find a solution of it by restricting the number of holidays gazetted under the Act, but retaining by executive authority the existing number of holidays for all public offices, save the few in Calcutta which are indispensable to the foreign commerce of the port. The question as thus stated deserves very careful consideration.

20. The Negotiable Instruments Act XXVI of 1881 became law subsequent to the discussions of 1879 and 1880. Under section 25 of that Act, when the day on which a Promissory Note or bill of exchange is at maturity is a public holiday, the instrument shall be deemed to be due on the next preceding business day. The expression "public holiday" includes Sundays, New Year's Day, Christmas Day, Good Friday, and any other day declared by the Local Government by notification in the official Gazette to be a public holiday. Under this section the 30 authorised public holidays in Bengal are now published, and the gravamen of the Chamber is, firstly, that public business is to a large extent paralysed during these holidays by the closing of the Exchange Banks, which will not undertake the responsibility of transacting business during days upon which negotiable instruments will not mature; and, secondly, that the trade of the port is materially affected by the closure of the Shipping Office and the inability to obtain port clearance during these days. It is pointed out that in the interval from 30th September to 10th October 1889, which were declared public holidays under the Act on account of the Doorga and Lakhi Poojahs in 1889, the shipping arrivals in the port of Calcutta showed a gross tonnage of 73,210, and a registered tonnage of 48,179; that the departures showed 63,962 gross and 45,538 registered tonnage; that 29 steamers and 2 ships arrived in port, and that 19 steamers and 13 ships left the port. The East Indian Railway brought into the market 25,084 tons of goods, and the Eastern Bengal State Railway 4,52,514 maunds, of which 3,63,875 were jute. The fact that all bills maturing in the interval fell due on Saturday, September 28th, is brought to notice as a most serious inconvenience and burden on the trade of the port. In the discussion that took place in 1879 much stress was laid by the native members of the Committee on the fact that the then existing facilities were sufficient. They urged that, though the Banks were closed, exchange operations might be and were carried on, and, that as a matter of fact, the Banks did take cheques from purchasers of bills during the vacation; and that remittances by telegram or otherwise were not necessarily suspended. The Chamber urge that this is not now the case, and that the Banks have felt it unsafe to do any business at all on holidays gazetted under the Negotiable Instruments Act since that Act came into operation, and consequently that the inconvenience to commerce has become intensified.

21. Of the force of these representations there can be no doubt; and it is equally clear that it is the duty of the Government to mitigate the grievance if it is possible to do so without imposing greater hardship on others. The question to be examined is whether this can be done by reducing the number of public holidays under the Negotiable Instruments Act, and at the same time increasing the number given in Government offices by the executive order of Government. Mahomedan holidays are now granted by the executive order of Government in the following way:—"It is notified for general information that," on specified dates, "all public offices and Revenue and Magisterial Courts in Bengal, with the exception of the offices of Collector of Customs, Shipping Master, the Registrar of Assurances, Calcutta, the Collector of Stamp Revenue, Calcutta, the Stamping Department of the Office of the Superintendent of Stamps, Calcutta, and the Salt Rowanah and Opium Sale Departments of the Board of Revenue, shall be closed." The effect of these orders is to give a general holiday in Government offices with the exception of those specified. To those excepted offices special instructions are issued that "though it is not expedient to close them on the days in question, it is hoped that it will be possible to arrange to relieve of their duties on those days any Mahomedan ministerial officers who may apply for leave." The holidays are granted generally, but the trade of the port is not allowed to suffer. It is an arrangement which His Honour believes has been found to give satisfaction to all concerned. What the Lieutenant-Governor would now propose for consideration is that all those days of the Doorga Poojahs, which are not actually required to be devoted to necessary Hindu religious ceremonies, should be notified as holidays in the same way as Mahomedan holidays are now notified, and that only those days which are devoted to religious ceremonies should be notified as public holidays under the Act.

22. An objection which may be brought against this proposal is that on Poojah days, which are not notified under the Act as public holidays, every bank and mercantile office in the city will be kept open. This is the argument which was felt to have so much weight in the discussions of 1879-80. But the objection is less strong than it seems to be. The Banks would be in no worse position—indeed in a better one in regard to enforced closing—than they were in before the Act was passed: whatever force attached to the argument used by the native members of the Committee as to their being able to afford sufficient facilities to commerce without absolutely closing their doors, would acquire additional strength under the present proposal; while in regard to mercantile offices, the Lieutenant-Governor is disposed to doubt whether there will be any very material change. All the merchants in Calcutta now require so many of their clerks as are necessary to carry on business to attend during the holidays; business is not allowed to stop, notwithstanding the closure of the Exchange Banks and Shipping Office; and the Lieutenant-Governor is assured on competent authority that the reduction of the number of holidays under the Act is not likely to appreciably affect the actual attendance of clerks. The merchants of Calcutta have always been ready to give holidays during the days actually devoted to religious ceremonial observance, and all employés in merchants' offices now know very well that a condition of their service is that on other days they are expected to attend office when work has to be done.

23. Sir Steuart Bayley has no doubt that the mercantile community will continue to show every reasonable consideration to their Hindu clerks in regard to attendance. It is to their interest to do so: the work of their offices depends on mutual agreement on both sides. After all, attendance in office is a matter of contract arrangement between employer and servant, and it is impossible to justify any interference on the part of Government, which would insist on mercantile offices remaining without clerks for twelve days at a time. Of course no such interference is really contemplated, but the papers on the subject give some colour for supposing that the claim has sometimes been made. If it is formally abandoned, the objection under discussion must also be given up.

24. On the other hand, I am to point out that a notification in the proposed form will enable Government to give a general holiday in its own offices, excepting those only which are required to remain partially, or it may

be wholly, open to meet the exigencies of modern commerce. All that is expected from Government is to afford reasonable facilities for carrying on business. This is done in the case of Mahomedan holidays, and ought to be done in the case of Hindu social festivals. The number of Government offices affected is inconsiderable, and the amount of hardship which would be inflicted on the Hindu employés concerned would not be great. The Lieutenant-Governor would, however, strictly enjoin in regard to these excepted offices that the Hindu employés should be allowed their holidays, whenever possible, and that, if it be found impossible to grant them, other concessions in the way of leave at other times should be given.

25. A point which had great weight in influencing the decision in 1879 was that advanced by Mr. Dampier and others that the opening of certain offices at the Presidency would necessarily govern the practice of all or nearly all the other offices in Bengal. It is now argued that this position is no longer tenable as shown by the fact that certain Mahomedan holidays are granted by executive order, and are, as a matter of fact, universally enjoyed in all parts of Bengal, except in certain offices at the Presidency. The opening of these particular offices does not in any way govern the practice elsewhere. It appears to follow that certain Hindu holidays, if notified in the same way as Mahomedan holidays, will be accepted in the same way as Mahomedan holidays are now accepted, and it is urged there is an opportunity of settlement on this basis. The provisions of the Negotiable Instruments Act enable the Government to make a clear distinction between public holidays notified under the Act and holidays notified by executive order: and it seems to His Honour that advantage may be taken of this distinction, which did not exist when the question was formerly under discussion, to sanction arrangements which, while recognizing the claims of the Hindu community, will also satisfy the interests of trade and commerce.

26. It is undoubtedly the case that the attitude of the Chamber becomes a stronger one every year. The proportion of steamers which comes into the port constantly increases, and the requirements of trade are more urgent now than they were ten years ago. The holiday arrangements are proportionately more irksome and impose greater comparative restrictions than they did then. The claims of commercial progress are recognized in other parts of India. It was pointed out by Baboos Kisto Das Pal and Durga Charan Law in 1879 that "the number of holidays in Bengal is less than that in other provinces." But whatever may have been the case in 1879, the exact reverse is the fact in 1889. The number of holidays for 1889 notified under the Negotiable Instruments Act in Madras (including New Year's Day, Good Friday and Christmas Day, which are public holidays under the Act) was 18; in Bombay the number was 21; in Bengal the number was 29. A *primâ facie* case is therefore made out for reduction in the number of public holidays notified under the Act. If the number of Doorga Poojah and Lakhi Poojah holidays gazetted under the Act were reduced from 12 to 5, there would still remain 22 public holidays in Bengal, which is a larger number that either at Bombay or Madras, and is, the Lieutenant-Governor understands, a larger number than is allowed in any other country in the civilized world.

27. The Chamber of Commerce have proposed that the total number of public holidays notified under the Act should be reduced to 12 days only as specified in their recommendation, and they have declared that these 12 days "shall be the holidays recognized by the Chamber under shipping orders and charter parties as holidays according to the custom of the port." But the Lieutenant-Governor is not aware of any reason why Government should accept so great a change as this. The Chamber are at liberty to declare what charter party holidays they please; but they cannot expect that the Government should regulate the public holidays throughout the province according to the custom of the Calcutta port. It appears that in Madras the public holidays under the Act are identical with the charter party holidays declared by the Chamber of Commerce. In Bombay, however, the local Chamber of Commerce have fixed the number of their charter party holidays at 14, while the Bombay Government has notified the number of public holidays to be 21. Similarly in Bengal there can be no objection to the Chamber fixing the

representations)

area," at least as a permanent remedy for the existing evil, inasmuch as these lands are already much silted up and are already considerably higher than the "protected" lands which have to be drained; but, as a remedial measure, the re-opening of these lands to tidal spill, and the absolute prohibition of any new embankment within their limits, will no doubt for a time put a check on the present rapidly increasing obstruction to the drainage of the country, and from this point of view His Honour accepts the conclusions arrived at, and the Board will be requested to make the necessary arrangements as soon as possible in communication with the Public Works Department of this Government.

4. The second cause of floods, as disclosed by the Committee's report, is the construction of cross-dams in the main drainage channels for the purpose of excluding salt water during the dry season. It is stated that—

"The immediate effect of a cross-dam in a tidal channel is to cause a deposit of silt below the dam. In the flood season, when the flow of drainage took place, the dams were cut, and there was a sufficient scour to clear out the beds of the channels. Some deposit did, however, take place, which it was important to remove, and this necessitated the construction of the dam at a lower point in the channel in order to facilitate its removal. Cross-dams were in former years, and as recently as the year 1884, constructed in the Itaberiah, Oodbadul khals, but they were replaced eventually by one dam in the Sadar khal, below the junction of these khals with the main drainage channel, and the last dam constructed in 1887 was made at Birjoo, some three miles only above Kalinagar lock. The effect has been to concentrate the deposit of silt carried up by the first rush of the flood tide and create an obstruction in the main channel.

"During our inspection of the Kolaberiah khal it was found that, although no obstruction was apparent in the bed at the sites of various cross-dams that had been constructed since 1882, at the Birjoo cross-dam there was a depth of water of only 1 foot below the dam, while the depth was 4½ feet above.

"The accumulation of silt here was due to a deposit which had taken place during two years, and which extended to either bank. The cross-dam had been cut in the centre, but not to a width or depth sufficient to allow of drainage water from above being effectually discharged.

"At the same time, following on a recent settlement of the jalpai lands, bunds were being constructed by the chakdars (settlement-holders) along the margin of the channel, and the area of the channel was being contracted.

"Every condition existed for favouring the rapid silting up of the bed and blocking the drainage of the country above.

"It was shown by a cross-section of the country, taken during our inspection, that had free flow been allowed to the entrance of the tidal water, at a point about two miles above the cross-dam at Birjoo, the high tide in the flood season would have risen to 2½ feet above the country immediately on either side of the Sadar khal, and 5 feet above it for a distance of upwards of half a mile on either side to the Government embankments."

The recommendations of the Committee in regard to cross-dams are as follow:—

"I. Cross-dams in the main arterial drainage channels should be removed, and the reconstruction of them should not be allowed save where they are really required in order to protect cultivated land in the neighbourhood of these channels from inundation by salt water. Under the notification to which we have already referred, the construction of these cross-dams without the previous permission of the Collector is prohibited in many, if not in all, the main drainage channels. Moreover the construction of cross-dams in any water-course protected by the public embankments specified in schedule D, Act II of 1882, is illegal, apart from any special notification. The Collector should not, we think, give his consent to the construction of cross-dams unless and until the Engineer has reported, after local inquiry, that the cross-dam is required in each case, and the Engineer should not report in favour of allowing cross-dams save when he has ascertained that the mischief likely to be caused by the construction of a dam is less than the injury which is likely to ensue from unpreventable inundation of cultivated land by tidal water. It must be remembered, too, that it is not enough, in order to justify the construction of these cross-dams, to be able to show that without them certain lands are liable to inundation. It is further necessary to ascertain that such lands cannot be protected by repairs of the existing "hussea" bunds along the sides of the channels, or by the construction of new "hussea" bunds. These "hussea" bunds should be repaired or constructed, as the case may be, at expense of the parties whose lands are protected in the manner provided in the Act. Where channels are protected by public embankments now under charge of public officers, and maintained at the public expense, either as being included in schedule D embankments, or as being situated in Government estates, such repairs of "hussea" bunds as may be required in order to permit of the removal of cross-dams, or prohibition of their reconstruction, will have to be undertaken by the Public Works Department. So also, when Public Works officers have, in connection with the coast or other canals, diverted the ordinary drainage into new channels (called pass khals), Government is responsible for keeping these channels in efficient condition and for maintaining the "hussea" bunds abounding them, so far as the channels are new. Though we are of opinion that the hasty construction of these dams across the main drainage channels without proper inquiry, and afterwards the failure to remove them

in due time, has caused much mischief, yet we are not prepared to recommend their wholesale removal or absolute prohibition in future, without having it carefully ascertained beforehand in each case that adequate precaution has been taken to guard against the mischief which might ensue from inundation of cultivated land by salt water. It may be well here to remark that we do not attribute blame to the officers of the Public Works Department, or to the Collector, for having hitherto allowed the construction of these dams in the past. Of the expediency of allowing them there has always been some doubt, and some of them have been constructed from time immemorial.

"Our remarks on the injury that results from these dams, and the inexpediency in general of allowing them to be made, do not apply to temporary dams made for the purpose of permitting the excavation of the beds of the channels themselves when these channels require to be cleared. But even as to temporary dams, made merely for the purpose of permitting excavation of the beds of water channels, care should be taken that they are removed as soon as the channels above them have been cleared. They cause a deposit of silt at or near them. This silt raises the bed of the stream below the dam, and this affects the level at which water flows off throughout the whole country served by the channel. In this way one cross-dam near the mouth of the Kolaberiah khal affected most injuriously the drainage of the Jellamutha and Sujamutha pergunnahs, and caused much loss to the Government khas mehals in the Burdwan estate—a loss which might have been almost entirely obviated by removal of the dam and clearing out of the deposit of silt caused by it between the site of the dam and the mouth of the khal. Since the date of our visit the silt caused to be deposited by the dam in question has been, at our suggestion, cleared away, with the result that the water-logged parts of Sujamutha at once dried up. Wherever, therefore, a cross-dam is constructed, even for a temporary purpose, the authority which constructs or permits its construction should be held responsible, not alone for the removal of the dam in due time, so as not to interfere with the general drainage of the country served by the channel, but also for the removal of any silt which may have been deposited below the dam, which would affect the level of the bed of the stream."

These proposals are approved by the local officers as well as by the Board, but the damage done by these cross-dams is doubtless so great that His Honour is inclined to think that the prohibition suggested in the opening lines of the above quotation from the report is not sufficiently stringent, and that no cross-dams should be allowed except temporary dams put by the Engineer in charge to allow of silt clearance above them, and that the officer putting such dam should be responsible for its complete removal at the earliest possible opportunity. All existing cross-dams, whether in major or minor drainage lines, should be removed. "Hussea" bunds are almost equally objectionable as contracting the area over which the tidal water can spill, and even though the plea be to keep the tide off otherwise culturable land, no increase in their existing number or section should be permitted. The Board add a recommendation in favour of the construction of sluices, which may be separately submitted in connexion with any particular case in which such a sluice may be desirable.

5. The third cause affecting the floods is the canalization of the Sarpai, as to which the Committee observe—

III.—Canalization of the Sarpai.

"It cannot be denied that the construction of a sluice at the mouth of the Sarpai, constituting as it does a permanent cross-dam, has accelerated the deposit of silt in the channel of the Bagda below it, and that too to such an extent as materially to reduce its discharging power. The silting up of the Bagda was, however, stated by Mr. Levinge, before the canalization of the Sarpai, to be only a question of time, and would have occurred apart from that canalization, owing to the causes described in the preceding paragraphs (I and II), had no remedy for them been applied."

As a further remedial measure they proposed to utilise the Balliaghye branch canal as a drain for the country formerly drained by this portion of the Bagda. This, it was stated, will involve a flood enbankment on the right side of the canal, and cutting of an outlet into the Bagda above the Sarpai sluice, and, it is supposed, will cost about Rs. 1,20,000. The work has now been partly executed, and even in its unfinished state has had the most marked success, having the effect of stopping the silting up of the Rasulpore river, and, perhaps, of slightly diminishing the effect of former silting, but unfortunately it appears to be doubtful whether this improvement will be permanent.

6. The Committee do not attribute great comparative importance to the obstruction to drainage caused by the Hidgellee Tidal Canal, as to which they remark as follows:—

"We visited, as already stated, certain places where it had been represented that the natural drainage had been obstructed by the Hidgellee Canal. We found that the old khals or drainage channels had been blocked at these places, but it was stated that sufficient waterway had been provided by the diversion of the old drainage into new channels which had been made by the Public Works Department. We observed, however, on the spot that

number of holidays according to the custom of the port at 12, while the number of public holidays may be 22, or any other number notified by Government under the Act. Moreover, it has been stated that a reduction in the number of continuous Doorga Poojah public holidays will sufficiently meet the contention of the Chamber, which is not so much against the total number of holidays in the year as against the obstruction to business occasioned by the occurrence of 12 public holidays in succession. Although objection has been taken to the continuous character of the Christmas holidays which, now when Sundays are included, usually amount to five days in succession, it has not been pressed home with the same persistence as the objection to the Doorga Poojah holidays, which are at present also continuous and are more than twice as long in duration. It is only in regard to the Doorga Poojahs, therefore, that the Lieutenant-Governor is disposed at present to consent to any reduction in the number of public holidays under the Act. The other public holidays might remain unchanged for the present. It is desired by the Chamber that if any change is made it should take effect from the year 1890, and the Lieutenant-Governor proposes to take action as he may be advised in this respect.

28. I am to sum up this letter as follows:—

It is proposed to notify holidays in Bengal under two separate notifications: first, in regard to public holidays notified as such under the Negotiable Instruments Act; and, secondly, in regard to holidays which are notified as such by the closure of public offices. These two separate notifications would be in the form given, and apply to the days specified in the draft notifications annexed.

In addition to any remarks on the general question which may be offered, the Lieutenant-Governor desires to be favoured with an opinion on the following points:—

(1)—Whether the effect of the publication of these notifications will be to make a clear distinction between public holidays under the Negotiable Instruments Act and those notified by executive order only, in so far that the Exchange Banks will remain closed on the "public holidays" only, and not on the other days.

(2)—Whether the effect of the publication of these notifications will wholly or partially meet the growing requirements of trade and commerce.

(3)—Whether the effect of the publication of these notifications will be to inflict serious hardship on a considerable section of the community by depriving them of holidays which they now enjoy.

(4)—Whether the proposals now made are accepted by the Chamber / your Association as a reasonable present compromise between interests which admittedly conflict with one another.

29. The third question, as to the effect on the general community of notifying the non-compulsory days of the Doorga Poojah as holidays by executive action instead of under the Negotiable Instruments Act, is the most important, and that to which your attention is specially invited. The Lieutenant-Governor would in no case make a change without the previous sanction of the Government of India, and he desires to lay the question before His Excellency in Council with the fullest light that previous enquiry can throw upon it.

30. In conclusion, I am to say that the Lieutenant-Governor will be glad to obtain an answer to this letter at the Chamber's / Association's early convenience.

ANNEXURE.

DRAFT NOTIFICATION.

The 1890.—Under section 25 of Act XXVI of 1881, entitled "The Negotiable Instruments Act, 1881," the Lieutenant-Governor hereby declares the following days to be public holidays during the year 1890 :—

25th January	...	Sripanchami.
6th March	...	Dolejatra.
5th April	...	Easter Saturday.
12th ,,	...	Chaitsankranti.
24th May	...	Empress' Birthday.
29th ,,	...	Dashahara.
7th August	...	Janmashtami.
13th October	...	Mahalaya.
20th, 21st and 22nd, 27th and 28th October	...	Doorga and Lukhi Poojahs.
11th and 12th November	...	Kali Poojah.
20th and 21st ,,	...	Jagadhatri Poojah.
24th, 26th and 27th December	...	The day preceding and two days following Christmas Day.

Sundays, New Year's Day, Good Friday, and Christmas Day are public holidays under the Act.

Offg Secy. to the Govt. of Bengal.

DRAFT NOTIFICATION.

The 1890.—With reference to the above notification, the Lieutenant-Governor hereby notifies that on the following days during 1890, which are not declared to be "public holidays," the offices under the Government of Bengal, and all Revenue and Magisterial Courts in Bengal, with the exception of the offices of Collector of Customs, Shipping Master, the Registrar of Assurances, Calcutta, the Collector of Stamp Revenue, Calcutta, the Stamping Department of the Office of the Superintendent of Stamps, Calcutta, and the Salt Rowannah and Opium Sale Departments of the Board of Revenue, shall be closed :—

I.—MAHOMEDAN HOLIDAYS.

Eed-ul-fitr, which falls on the 21st May, or, if the moon be not visible on the 20th May, on the 22nd May.

Eed-ul-zoha, which falls on the 28th July, or, if the moon be not visible on the 18th July, on the 29th July

Mohurrum, the last two days of which fall on the 26th and 27th August, or, if the moon be visible on the 16th August, on the 25th and 26th August.

Fatiah-doaz-dahum, which falls on the 27th October, or, if the moon be not visible on the 15th October, on the 28th October.

II.—HINDU HOLIDAYS.

Doorga Poojah, the 18th, 23rd, 24th and 25th October; Lukhi Poojah, the 29th October.

Offg. Secy. to the Govt. of Bengal.

quiet ;

about Rs.

in its

stores. $\frac{1\text{-H}}{1}$ 23, dated Calcutta, the 19th January 1890.

From—H. J. S. COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
To—The Secretary to the Board of Revenue, Miscellaneous Revenue Dept.

I AM directed to enclose a copy of a letter on the subject of public holidays in Bengal, which has been addressed to the undermentioned Chambers and Associations, and to request that the Board will be so good as to obtain the opinions of the Collector of Customs, of the Superintendent of Stamps, and of

the Collector of Stamp Revenue, Calcutta, on the proposals therein contained, and to submit them with their own opinion for the information of the Lieutenant-Governor.

1. To the Secretary to the Bengal Chamber of Commerce.
2. „ „ „ „ National Chamber of Commerce.
3. „ „ „ Calcutta Trades' Association.
4. „ „ „ British Indian Association.
5. „ „ „ Indian Association.

No. Mis $\frac{1\text{-H}}{1}$ 24, dated Calcutta, the 19th January 1890.

From—H. J. S. COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
To—The Superintendent and Remembrancer of Legal Affairs.

I AM directed to enclose a copy of a letter on the subject of public holidays in Bengal, which has been addressed to the undermentioned Chambers and Associations, and to enquire, with reference to the notification which has already been published at page 1010 of Part I of the *Calcutta Gazette* of 11th December 1889, if there would be any legal objection to the supersession of this notification by the publication of another notification such as is proposed for the public holidays of the current year. It is necessary to consider this point before deciding whether any change in regard to public holidays should apply to the year 1890.

1. To the Secretary to the Bengal Chamber of Commerce.
2. „ „ „ „ National Chamber of Commerce.
3. „ „ „ Calcutta Trades' Association.
4. „ „ „ British Indian Association.
5. „ „ „ Indian Association.

Nos. Mis. $\frac{1\text{-H}}{1}$ 25-33, dated Calcutta, the 19th January 1890.

From—H. J. S. COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
To—The Secretary and Treasurer of the Bank of Bengal; Agent of the Chartered Bank of India, Australia, and China; Agent, Chartered Mercantile Bank of India, London, and China; Agent, Hongkong and Shanghai Bankers' Corporation; Manager, Delhi and London Bank, Limited; Manager, National Bank of India; Manager, Comptoir D'Escompte de Paris; Manager, Agra Bank; Manager, Oriental Bank.

I AM directed to enclose a copy of a letter on the subject of public holidays in Bengal, which has been addressed to the undermentioned Chambers and Associations, and to request that you will be so good as to favour me, for the Lieutenant-Governor's information, with your opinion on the proposals therein contained.

1. To the Secretary to the Bengal Chamber of Commerce.
2. „ „ „ „ National Chamber of Commerce.
3. „ „ „ Calcutta Trades' Association.
4. „ „ „ British Indian Association.
5. „ „ „ Indian Association.

Nos. Mis. $\frac{1\text{-H}}{1}$ 34-35, dated Calcutta, the 20th January 1890.

From—C. CUTHBERTSON, Esq., Under-Secy. to the Govt. of Bengal, Financial Dept.,
To—The Registrar of Assurances, Calcutta, and Sheriff Master, Calcutta.

I AM directed to enclose a copy of a letter on the subject of public holidays in Bengal, which has been addressed to the Chambers and Associations mentioned in the margin, and to request that you will be so good as to submit, for the information of the Lieutenant-Governor, your opinion on the proposals therein contained.

Bengal Chamber of Commerce.
Bengal National Chamber of Commerce.
Calcutta Trades' Association.
British Indian Association.
Indian Association.

No. $\frac{8}{107}$, dated Calcutta, the 30th January 1890.

From—Lieut. E. W. Petley, R.N., Port Officer and Shipping Master, Calcutta,
To—The Under-Secretary to the Government of Bengal, Financial Department.

I have the honour to acknowledge the receipt of your letter No. Mis. $\frac{1\text{-H}}{1}$ 35, dated the 20th instant, and annexure, calling for the opinion of this office in respect of certain proposals relating to the public holidays in Bengal, and in reply to state that it appears to me that the proposal contained in paragraph 29 of the letter of the Government of Bengal, Nos. Mis. $\frac{1\text{-H}}{1}$ 18-22 of the 19th idem, will meet the requirements of the mercantile community as represented by the Chamber of Commerce and the Trades Association; but I fear the publication of the proposed double notification will cause hardship to the Government employés who will be deprived of their holidays. My reason for such opinion is based on the following grounds:—

In the six departments and offices which the notification will affect, the bulk of their establishments is composed of Hindus, who usually take this opportunity of visiting their country homes during the Doorga Pooja vacation. These homes, I understand, are mostly ancestral properties, where the social system of the Hindus, being of a patriarchal type, all the relatives, close and distant, of the holders of these properties meet from the different parts of India, and this deprivation of intercourse between relatives, &c., is the hardship which will chiefly be felt, and which concession in the way of leave, &c., at other times, when families are again separated, will hardly satisfy.

No. 75, dated Calcutta, the 3rd February 1890.

From—Baboo Pratapa Chandra Ghosha, Registrar of Calcutta,
To—The Secretary to the Government of Bengal, Financial Department.

I have the honour to acknowledge the receipt of your letter No. $\frac{1\text{-H}}{1}$ 34Mis., dated the 20th ultimo, forwarding copy of letter No. $\frac{1\text{-H}}{1}$ 18-22Mis. of the Financial Department, with its annexure of draft notification regarding the holidays to be observed in public offices, for opinion and report.

1. In reply, I beg to submit my views on the point indicated in paragraph 29 of your letter *seriatim*.

(1) The publication of the notification, draft of which has been annexed to the letter under reply, will, in my humble opinion, make a clear distinction between public holidays under the Negotiable Instruments Act and those notified by executive order only in so far that the exchange banks will remain closed on the "public holidays" only and not on the other days. The excepted offices will, as a matter of fact, be kept wholly open, and although the benevolent special instructions of the Government direct that, though it is not expedient to close them on the days in question, it is hoped that it will be possible to relieve of their duties on those days any ministerial officers whose religious requirements compel them to apply for leave, the heads of departments as a matter of fact will find great difficulty in extending that privilege, exigencies of the service constraining them to refuse the just claims of the poor clerks who cannot force themselves into the notice of the higher authorities without suffering seriously in return. The Government cannot be unaware that it is as much difficult for poor clerks to make their grievances heard as it is for Government to make the heads of departments carry on their business with a portion of their establishment in attendance.

(2) I believe the effect of the publication of these notifications will wholly meet the growing requirements of trade and commerce. It is not for me to remark that whether the mercantile community have proved that they have any real complaint to make. The Negotiable Instruments Act was passed in 1881. And in 1888 and 1889 the Government has been pleased to negative the Chamber's representations because the inconvenience and loss which the mercantile community suffer from the existing state of things, great and serious as they are, cannot be remedied without inflicting a still more serious hardship on a far more numerous though less influential portion of the community. With-

in this short interval, forgive me if I say no new circumstance has intervened as to justify the reversal of the most noble, wise, and statesman-like ruling the Bengal Government issued in 1889, *i.e.* last year. In my humble opinion, further enquiries are necessary to ascertain the exact nature of the loss complained of by the mercantile community. The inconvenience arising from the closure of the exchange bank may easily be removed without the direct interference of Government; for, as the constituents of these banks are members of the mercantile community, they may be kept open or close at their pleasure.

(3). I cannot help confessing that the publication of these notifications will not only inflict serious hardship on a considerable section of the community by depriving them of holidays which they now enjoy, but will extend its evil effects not only to the Hindoo community at large but to all classes of population in Calcutta. In these days, when the demonstrative feeling of the community is in its highest tension, a curtailment as indicated by the notification is likely to wake up invidious distinction in the minds of the Hindoo community especially, for within the last couple of years, while the Government has recognised the propriety of closing offices on days of Mahomedan festivals, a backward movement has been evinced in the case of the Hindoo community by the deprivation of the privileges which the latter have been enjoying ever since the British flag was unfurled from the towers of Fort William. For nearly two centuries the Government has not thought it proper to recognise the rights of the Mahomedan community of Calcutta, and the good which the extension of the privileges to that section of the community by closing public offices on Mahomedan festivals is calculated to secure will, I am constrained to admit, be greatly counterbalanced by the unpleasantness which the contemplated curtailment will create in the minds of the Hindoo community. I need not add that such a curtailment will, in addition to the unpleasantness mentioned above, materially injure and inconvenience the public non-trading community generally.

2. The question of the number of public holidays in the Bengal Province has been the subject of much discussion for upwards of a quarter of a century, and although the mercantile community of Calcutta, represented by the Bengal Chamber of Commerce and the Calcutta Trades' Association, have been urging for the last 30 years the desirability of affording greater facilities to the trade by reducing the number of Hindoo holidays observed in public offices, considerations of privations and difficulties to which the general community as well as the clerks would be subjected have always influenced the patriarchal Government in ruling otherwise. The attitude of the Chamber has, however, become stronger every year, and it may be surmised that some inconvenience and loss are sustained by the mercantile community owing to the long Doorga Poojah vacation which under the Negotiable Instruments Act have become public holidays, and that that loss is princpally due to the closing of the following offices:—

(1) The Office of Collector of Customs.
(2) ,, ,, Shipping Master.
(3) ,, ,, Collector of Stamp Revenue.
(4) ,, ,, the Stamping Department of the Superintendent of Stamps.
(5) ,, ,, the Salt Rowannah and Opium Sale Department of the Board of Revenue.

3. It will be observed that from the list I have excluded the office of the Registrar of Assurances, Calcutta, and my reason for doing so I will have the honour to submit further on. It is not for me to say that the customs and habits of the country of adoption of the mercantile and trading community should bear some weight in determining the question of holidays and balance of convenience, nor am I justified to refer in detail to the accommodations already provided for by keeping open the Customs and the other offices, but I cannot help observing that the period of 12 days already fixed for the Doorga Poojah vacation is the minimum to which it can possibly be reduced.

4. The proposal regarding the curtailment of public holidays, as has been set forth in the Government letter, has to be considered in its two different aspects—firstly, in so far as it will affect the general public by the opening or closure of the public offices generally; and secondly, in so far as it will affect them by the opening or closure of the office of the Registrar of Assurances, Calcutta.

5. As regards the first side of the question I need not repeat the arguments already before the Government, as they had been put forth by abler and more influential members of the community. As a Hindoo officer and having a certain number of Hindoo clerks under me, and having to deal with all classes of Hindoo and mercantile community of Calcutta, I cannot but record that the Doorga Poojah vacation is already too short. I do not know what interested political pundit has induced the Government to believe that the real Doorga Poojah ceremonies occupy only three days. There is not a Hindoo pundit or layman who can say that the real Doorga Poojah does not extend over a period of more than fifteen days. It commences on the ninth day of the waning moon and ends on the tenth day of the waxing fortnight following. It may be said that there are not many families in Calcutta who observe the ceremony for such a long period—that is to say, who observe the *Navamyádi Kalpa*; but the same argument may be urged against the "three days' (correctly five days' ceremony," for, as a matter of fact, there are few families who observe even the same. Properly speaking, the minimum observance of the poojah occupies five days, for it commences on the sixth and ends on the tenth day of the waxing moon. But the Doorga Poojah of the Hindoos of to-day is in one sense more important than the great *Asvamedha* (horse sacrifice) of the Vedic period, inasmuch as the horse sacrifice was observed by the ruling sovereigns only, while the Doorga Poojah (the *Asvamedha* of the Iron age) is observed by all classes of people—nay, it is said in the Shastras that it is to be observed by the *Mlechhas*, Savaras, and all non-Hindoo races; besides, the *Asvamedha* was a free will offering, while the Doorga Poojah to every Hindoo is a compulsory observance and not to observe it is a sin; and although the actual worship may not occupy a longer period, the preparations, the collections of a thousand and one things for the proper performance of the ceremony cannot possibly be made in a short time. Besides, the five days and nights are fully occupied in observing ceremonies both social and religious. On the tenth day, until the idol is placed in the water, many Hindoo families observing fast do not prepare their food, and many a family invite their friends close upon midnight of the tenth day of the moon and feast together. It is unnecessary to repeat that all the arrangements for sending ladies to their fathers' house or bringing them back to their husbands fall on the nine auspicious days of the Doorga Poojah so well known throughout India as the *Navaratri*. And last, though not the least, is the ceremony of the autumnal *Navánna*, a ceremony observed on the income of the new crop, which is pre-eminently directed to be observed in that fortnight of the month of *Asvin* when the Devi is worshipped.

6. As regards the second side of the question, the office of the Registrar of Assurances, Calcutta, is not much resorted to by the mercantile community for any urgent or ephemeral or temporary accommodation of business, for, under the Act, such negotiable instruments have been classed under the optional heads. I have not as yet had an occasion to register a single on demand note, promissory note, hundi, &c., and documents of that nature executed by the mercantile or trading community of Calcutta in course of their business. All such transactions are primarily kept confidential, and the mercantile community loathe to give publicity to such deeds which affect their commercial credit. The only class of deeds for which they resort to this office are of a permanent nature such as leases, mortgages and conveyances, which, under the Act, may be presented any time within four months from the date of execution. Powers of attorney alone of persons abruptly leaving Calcutta not previously arranged may require the Registrar to authenticate during the 12 days' vacation. But the wide distribution of registration offices throughout India and the more liberal provisions of section 33, clause (*b*), have provided for all such contingencies. It will thus be seen that the closing of the office of the Registrar of Assurances, Calcutta, is not likely to inconvenience the mercantile community any way.

7. I beg to append a statement showing the number of registrations effected by merchants and traders and also by the non-trading community of Calcutta during the first 15 days following the expiry of the Doorga Poojah vacation. It will be seen that the table contains statistics of the past 20 years, and the figures in column 3, which show the number of registrations by merchants and traders, fully corroborate the fact that the Calcutta Registry Office is rarely resorted to by the mercantile community of Calcutta during the period which intervenes between the expiry of the 12 days' Doorga Poojah vacation and the re-opening of the Court of Small Causes, Calcutta. I have left out figures for the five years preceding the two decades, as my office records do not show any important transactions by merchants and traders during that period. It will also be seen from the statement that even of the few registrations relating to purely mercantile transactions a good portion were powers of attorney, a class of documents of not an urgent nature, as has already been noticed. Although it is out of place to mention here and in the face of the proposals for curtailment of holidays, I cannot help observing that the office of the Registrar of Assurances, Calcutta, may be kept closed with the Court of Small Causes, Calcutta, without putting the mercantile community of Calcutta to any the least inconvenience and loss.

Statement showing the number of Registrations effected during the first fifteen days following the opening of the office after the Doorga Poojah vacation.

Year.	Number of registrations by persons other than merchants and traders.	Number of registrations by merchants and traders.	Remarks.
1870 ...	90	2	Powers of attorney.
1871 ...	95	2	Ditto.
1872 ...	81	8	Of which two were powers of attorney.
1873 ...	76	5	Ditto one ditto ditto.
1874 ...	75	9	Ditto five ditto ditto.
1875 ...	91	14	Ditto five ditto ditto.
1876 ...	76	13	Ditto seven ditto ditto.
1877 ...	98	8	Ditto four ditto ditto.
1878 ...	85	11	Ditto five ditto ditto.
1879 ...	137	14	Ditto four ditto ditto.
1880 ...	83	9	Ditto two ditto ditto.
1881 ...	98	9	
1882 ...	97	12	Ditto four ditto ditto.
1883 ...	75	7	Ditto four ditto ditto.
1884 ...	119	5	Ditto two ditto ditto.
1885 ...	98	8	Ditto three ditto ditto.
1886 ...	91	8	Ditto one ditto ditto.
1887 ...	97	9	Ditto two ditto ditto.
1888 ...	107	12	Ditto three ditto ditto.
1889 ...	83	8	Ditto one ditto ditto.

No. 1328, dated Calcutta, the 4th February 1890.

From—T. T. Allen, Esq., Superintendent and Remembrancer of Legal Affairs,
To—The Secretary to the Government of Bengal, Financial Department.

With reference to your No. 1-1 24 of the 19th ultimo, having consulted with the Advocate-General, I have the honour to say that there appears no legal obstacle in the way to prevent Government from cancelling the notification of public holidays already published, and substituting in its place a new list.

No. 73, dated Calcutta, the 7th February 1890.

From—S. E. J. Clarke, Esq., Secretary, Bengal Chamber of Commerce,
To—The Offg. Secy. to the Government of Bengal, Financial Department.

The Committee of the Chamber of Commerce have perused with great interest the able and clear *resumé* of the holiday question contained in your

letter No. Mis. $\frac{1-H}{1}$ 18 of the 19th January, and they cheerfully acknowledge the admission contained in your paragraph 27 that the holiday arrangements under the "Negotiable Instruments Act" are proportionately more irksome and impose greater restrictions now then they did ten years ago, because the requirements of trade are more urgent now than they were then. This admission recognises the principle for which the Chamber of Commerce has so long contended, and renders it unnecessary for the Committee to follow you in your review of the discussion.

There is, however, a statement in your paragraph 25 which the Committee are glad to see made you say that "all that is expected from Government is to afford reasonable facilities for carrying on business. This is done in the case of Mahomedan holidays, and ought to be done in the case of Hindu social festivals."

The Committee are bound to say that they can see no reason why a distinction should be made in the treatment of Hindu and Mohomedan holidays, and they regard with satisfaction the manner in which His Honour the Lieutenant-Governor has, in your paragraph 26, approached this point.

I am to point out that the Committee of the Chamber of Commerce have taken equal exception to continuous holidays at Christmas with continuous holidays at the Doorga Poojas, and that in my No. 944 of 22nd November last, they suggested that the holidays at Christmas time should be restricted to Christmas Day and the day after—December 25th and 26th. In the notification which accompanied your letter under reply, the Christmas holidays for 1890 are from the 24th to 27th December, both days inclusive; as the 28th December falls on a Sunday, this means that business must close on a Tuesday, a mail day, and remain closed till the following Monday. There is no reason that they can see for making December 24th a holiday, and they would suggest that the draft notification be amended accordingly.

In the Doorga Pooja holidays, they would point out that the notification would close business from Saturday, October 18th, to Thursday, October 23rd, and they would suggest, for the consideration of His Honour the Lieutenant-Governor, that the 23rd October might be transposed with the 22nd in the lists under the "Negotiable Instruments Act" and Hindu holidays respectively.

This brings them to the points set out in your paragraph 29, as those on which Sir Steuart Bayley desires an expression of opinion:—

(1) The Committee are clearly of opinion that the effect of the publication of the notifications suggested will be to make a clear distinction between public holidays under the "Negotiable Instruments Act" and those notified by executive order only.

(2) They are further of opinion that the effect of the publication of the notifications will partially meet the growing requirements of trade and commerce.

(3) They do not consider the effect of the publication of the notifications will be to inflict serious hardship on a considerable section of the community, by depriving them of holidays which they now enjoy.

(4) And lastly, the proposals now made, with the exception suggested as to Christmas, are accepted by the Chamber as a reasonable present compromise between interests which admittedly conflict with one another.

The Committee would suggest that the notifications, amended as they have ventured to suggest, should be published in the *Calcutta Gazette*, and they would be glad to give them, when they appear, the widest circulation possible.

In conclusion, I am to repeat, generally, the request made in my No. 944 of 22nd November, that the Chamber may be permitted an opportunity of considering the holidays the Government may propose to declare under the "Negotiable Instruments Act" before such holidays are published in

the Gazette. This request is made on the grou[nd] that it would considerably assist the Chamber in settling the holidays und[er] Charter Parties and Shipping Orders.

[illegible]

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egarding p

ed to forwar[d] bruary 1890.

I [illegible] from the Agents and Treasurer, Bank of Bengal,
From—W. D. C[ampbell], the subject. The Cham[ber] of Bengal, Financial Department.
To—The Offg. [Secretary] t the proposals made in t of your letter No. Mis. 14 25 of

I HAVE the honou[r] ed that the majority o[f] on the subject of public holidays in the 19th ultimo, encl[osed] they add that "it has [been] o certain Chambers of Commerce Bengal, which had b[een] herwise whether reduct[ion] shed with the Bank's opinion on the and Associations, an[d] ajority at the present ti[me] ant-Governor's information.

proposals therein c[on]

With regard to [the] d to request that the C[hief] ublic holidays in Bengal under two separate notification[s] ernor whether there [are] o public holidays notified as such under the Negotiab[le] o any change. The Li[st] the second by executive order only, I am instructed by [the] Chamber as a body has [not] at they consider that the effect of the publication of sep[arate] r Secretary; but, with [the] manner proposed, will be to make a perfectly clea[r] nks, it would be more sa[tisfactory] public holidays notified under the Negotiable Instr[uments] President and Committ[ee] olidays notified by executive order only; and that [the] t expressed by the Ban[k] sufficiently obvious to avoid all risk of Exchange Bank[ers] ity is in favour of fewe[r] e effect of the separate notifications as to remain [in] tive number of supporte[rs] e not notified as public holidays under the Act.

As regards [the] ch an expression of the Bank's opinion is sought, I am [directed] tors to state that they consider that the effect of the pu[blication] ions proposed will not be sufficient to meet the pres[ent] No. 131-90, dated Calcut[ta] ade and commerce, and that they agree with the p[roposal] S. E. J. CLARKE, Esq., Sec[retary] f Commerce that the total of public holidays in t[he] The Secretary to the Governm[ent] the Negotiable Instruments Act should be reduced to [the] mittee of the Chamber [of] ire in particular to draw the attention of the Governm[ent] d 17th February, in which great inconvenience is caused by two or more holi[days] a letter dated the 11th [inst.] days, and they trust that, so far as may be possible, t[his] Government by the Age[ncy] obviated.

As rega[rds] that it would be more [than] Directors consider that the effect of the publication o[f] ximately, by a referend[um] t inflict any hardship whatever on a considerable secti[on] among the members of [the] d even were the number of holidays under the Act redu[ced] community is in favour sed by the Chamber of Commerce, they think that th[ere] pears to be an invitati[on] any, would be so infinitesimal as hardly to be considere[d] the question whether [the] e benefit to the mercantile community which woul[d] om they were elected. [A] ther reduction in the number of public holidays. [As] ards the remark of the t the mercantile community have hitherto shown, and [will] t will attach to it no do[ubt], every reasonable consideration to their Hindu clerk[s] pressed by the Banks[ers], and they have no doubt that if the number of holi[days] of their letter, been [in] ct be reduced, arrangements will be very generally m[ade] Banks met the Comm[ittee] ion to native clerks in the shape of holidays at other tim[es] of holidays. Furth[er]

In reg[ard] representative of t[he] the Directors consider that the proposals of the Gover[nment] But on neither of [these] generally accepted as an instalment only, for the tim[e] have now brought to[the] ns in the holidays necessary to relieve trade of the rest[of] ent in to the Chamber[s] ow labours.

It is [to] known to His Honour [the] d that the reduction in the number of holidays sha[ll] ber is now in a spe[cial] resent year. The Directors are very desirous that [the] representative. [It] ome into force as soon as possible, but it has occurred [to] the attitude of the [Lieute]ment may not have power, after having once published [in] he first step taken by [the] azette on 11th December 1889, to alter that notificati[on] ral meeting held on [the] er of days once declared to be public holidays un[til] ng period of more than [a] such alteration might interfere with business arrange[ments] n office has been constr[ued] basis of the existing notification. These points [have], until now, been questi[on] tenant-Governor's consideration.

community. That attitu[de]

No. M 1-88, dated Calcutta, the 11th February 1890.

From—The Agent for the Chartered Mercantile Bank of India, London, and China; the Agent for the Chartered Bank of India, Australia, and China; the Manager of the Delhi and London Bank, Limited; the Manager of the Bank of India, Limited; the Agent for the Hongkong and Shanghai Banking Corporation; the Manager of the Agra Bank, Limited; the Manager of the Comptoir National D'Escompte de Paris; the New Oriental Bank Corporation, Limited.

To—The Offg. Secretary to the Government of India, Financial Department.

We, the undersigned, have the honor to acknowledge the receipt of your letter of 19th ultimo, requesting that we should state what we ought to be done in the matter, and to express our opinion on the proposals contained in your letter of same date, so that they can see their way that they can see their way to move the Chamber of Commerce and others. In accordance with this request we have the honor to submit the following remarks.

We believe that with the increase of business, and the manner in which especially owing to keen competition, which has become a necessity with some merchants at this Port, paragraph 26, approached the holidays at Christmas time should be as much as possible. They say that the obstruction to trade at this Port, but more Doorga and Lukhi Poojas would, if the holidays at Christmas time should be as much as possible. ously injurious to them. The Exchange Committee of the Chamber of in my No. 944 of known as the to the same extent as others, and would, if the holidays at Christmas time should be as much as possible. for the benefit both of their European December 25th and 26th. 2 days, be seri- however, for some years recognised that under reply, the Christmas holidays intact have seemed to have some claim on them, both days inclusive. They have, how- accordingly opened on a certain number that business must close ever, for some years recognised that the inconvenience for the transaction of urgent, though not of lowing Monday. There have seemed to have some claim on the mercantile community way of opening is attended by several in- 24th a holiday, and they have accordingly opened on a certain number of holidays for customers and some ourselves. As to cordingly. the transaction of urgent, though not of is half-and-half any day which is a holiday under the N- would point out that the way of opening is attended by several in- which affect our legally collect bills receivable nor pay ber 18th, to Thursday, customers and some ourselves. As to to state that on whether even cheques can be legally pai- ion of His Honour the any day which is a holiday under the N- Act we cannot more responsibility on us than we de- transposed with the 22nd legally collect bills receivable nor pay ms doubtful should prefer, if we open at all, to open and Hindu holidays respec- whether even cheques can be legally pai- itions throw under the Negotiable Instruments Act. ut in your paragraph 29, as more responsibility on us than we de- e, and we to reduce the number of Doorga Pooja h- ession of opinion:— should prefer, if we open at all, to open holidays whether the necessity to open attaches to under the Negotiable Instruments Act. of the mercantile community. We do opinion that the effect of th- he proposal to reduce the number of Doorga Pooja h- ggested will be to make a depends on specially interested section of the commu- olidays under the "Negoti- small section whether the necessity to open attaches to of the mercantile community. We do ified by executive order o- a small and specially interested section of the commu- ce the holi- days, but we hear so many different opin- the effect of the publica- at least open to doubt whether a majority of the commu- meet the growing requi- er holidays. It has not been effectively demonstrated vise whether reduction of holidays finds favor or disfavo- the present time. We can at present therefore only st- of the publication of the be opposed to any reduction in favor of a minority, we hardship on a considerab- se the in- terests of the majority. ing them of holidays w- We do not think the exigencies of trade the reduc- tion of any of the other holidays notified und- ments Act.

In reply to the four questions at the end , with the exception s by the Chamber as a re

1. Under the change proposed the nterests which admittedly d remain closed only on days notified a Negotiable Instruments Act.
2. We believe that no further reducti- ifications, amended as th- ing requirements of trade and *Calcutta Gazette*, and they he grow- idest circulation possible.
3. The reduction proposed means exac- lly, the request made holidays to the employés of Exchange may be permitted an extent a hardship. ernment may propose to
4. We should accept the proposa- as e such holidays are publis- to our customers only on the condi-

No. 985, dated Calcutta, the 17th February 1890.

From—H. J. S. COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
To—The Secretary to the Bengal Chamber of Commerce.

WITH reference to the correspondence ending with your letter No. 73, dated the 7th February 1890, regarding public holidays in Bengal, I am directed to forward the enclosed copy of a letter* from the Agents and Managers of the Exchange Banks in Calcutta on the subject. The Chamber will observe that the Banks are prepared to accept the proposals made in my letter No. $\frac{1\text{-H}}{1}$18, dated the 19th January 1890, provided that the majority of the mercantile community is in favour of them, but they add that "it has not been effectively demonstrated by general vote or otherwise whether reduction of holidays finds favour or disfavour among the majority at the present time."

* Dated 11th February 1890.

2. I am desired to request that the Chamber will be so good as to inform the Lieutenant-Governor whether there is a considerable minority of their members opposed to any change. The Lieutenant-Governor has no doubt that the opinion of the Chamber as a body has been expressed in the letter already received from their Secretary; but, with reference to the observation made by the Exchange Banks, it would be more satisfactory to Government if, with the permission of the President and Committee, it could be stated approximately how far the doubt expressed by the Banks, "whether a majority of the (mercantile) community is in favour of fewer holidays," can be set at rest by reference to the relative number of supporters of either view among the members of the Chamber.

No. 131-90, dated Calcutta, the 26th February 1890.

From—S. E. J. CLARKE, Esq., Secretary, Bengal Chamber of Commerce,
To—The Secretary to the Government of Bengal, Financial Department.

THE Committee of the Chamber of Commerce desire me to reply to your No. 985, dated 17th February, in which you state, as a deduction from a remark occurring in a letter dated the 11th of February on the subject of holidays, addressed to Government by the Agents and Managers of the Exchange Banks in Calcutta, that it would be more satisfactory to Government if it could be stated approximately, by a reference to the relative number of supporters of either view among the members of the Chamber, "whether a majority of the (mercantile) community is in favour of fewer holidays."

This appears to be an invitation to the Committeee to take a vote of the Chamber on the question whether they do, or do not, represent the views of those by whom they were elected.

As regards the remark of the Exchange Banks, I am to say that the Government will attach to it no doubt just so much weight as it deserves. But the doubt expressed by the Banks had never, until you favoured the Committee with a copy of their letter, been expressed to the Committee. The representatives of five Banks met the Committee on 5th September last in conference on the subject of holidays. Further, on 27th December, and again on 24th of January, a representative of the Exchange Banks attended meetings of the Committee. But on neither of these three occasions was the question raised which you have now brought to notice. The Exchange Banks, I am to say, have not sent in to the Chamber a copy of their letter of the 11th of February.

It is known to His Honour the Lieutenant-Governor that the Committee of the Chamber is now in a special manner, as compared with what formerly obtained, representative.

As to the attitude of the Chamber on this holiday question, I am to point out that the first step taken by the Committee was in obedience to a mandate of a general meeting held on the 11th December 1860, and that during the intervening period of more than 29 years the attitude of all the previous Committees in office has been consistent, has been supported by the Chamber, and has never, until now, been questioned as representing the wishes of the mercantile community. That attitude can to-day be correctly expressed in the

following extract from a letter addressed by the Chamber to the Government of Bengal so far back as 27th of November 1878:—

"The Committee do not undervalue the convenience attending the entry and clearance of vessels during the holidays, and the partial importation and exportation of merchandise on passes obtained in anticipation of the holidays; but these operations are after all only a fraction of the general business of the port, which is practically prevented from being carried on during that long interval: for while the Bank of Bengal and the other banking establishments are compulsorily closed, a general suspension of business, for a period longer than takes place in any other port in the world, is inevitable, and the inconveniences resulting from such a system are of such grave concern to the commercial community that their interests urgently call for a material amendment of the recognition which these holidays receive from Government."

Reviewing the whole history of this controversy, and their own position in relation to it, the Committee can see no reason for complying with the suggestion you seem to have put forward, that they should take a vote of the Chamber and must accordingly decline to take any such action.

No. 173, dated Calcutta, the 7th March 1890.

Demi-official from—S. E. J. CLARKE, Esq., Secretary to the Bengal Chamber of Commerce,

To—The Secretary to the Government of Bengal, Financial Department.

THE Committee of the Chamber of Commerce, although unable to comply with the suggestion of Government that a formal vote of the Chamber should be taken on the question whether the views as to holidays under the Negotiable Instruments Act, advocated by the Committee, were the views of the majority of the Chamber, yet agreed with the late President, the Hon'ble Sir Alexander Wilson, to take advantage of the opportunity afforded by the Annual Ordinary General Meeting to remove the matter beyond doubt. Sir Alexander Wilson, therefore, referred to this phase of the holiday question in his address, and in the course of the proceedings called for an informal vote on the point as an expression of the Chamber's opinion. The result was an unanimous confirmation of the views expressed by the Committee.

I enclose for your information a list of those present.

BENGAL CHAMBER OF COMMERCE.

28*th February* 1890.

ANNUAL ORDINARY GENERAL MEETING.

The following gentlemen were present:—

J. H. Ashworth, Esq.	Messrs. Ewing and Company.
A. C. Young, Esq.	
P. Playfair, Esq.	„ Barry and Company.
W. Wilson, Esq.	
Hon. C. H. Moore	„ Gillanders, Arbuthnot and Company.
A. B. Struthers, Esq.	„ Struthers and Company.
C. E. Smyth, Esq.	„ Turner, Morrison and Company.
H. B. H. Turner, Esq.	
G. H. Morrison, Esq.	
E. D. Wylie, Esq.	„ Mackinnon, Mackenzie and Company.
J. L. Mackay, Esq.	
Hon. Sir A. Wilson	„ Jardine, Skinner and Company.
D. W. Campbell, Esq.	Agent, East Indian Railway Company.
Robt. Williamson, Esq.	Messrs. Finlay, Muir and Company.
W. A. Bankier, Esq.	
W. W. Petrie, Esq.	W. Vale King and Company.
James Turner, Esq.	
L. A. Ralli, Esq.	„ Ralli Brothers.
L. P. Lutrari, Esq.	
T. Horne, Esq.	„ Horne, Dunlop and Company.
W. J. M. McCaw, Esq.	„ Kettlewell, Bullen and Company.
Geo. Cheetham, Esq.	„ George Henderson and Company.
Reg. Murray, Esq.	Agent, Chartered Mercantile Bank of India, London and China.

Shama Churn Law, Esq. ...	...	Messrs. Pran Kissen Law and Company.
J. N. Stuart, Esq. ...	...	„ Balmer, Lawrie and Company.
F. G. Hickson, Esq. ...	...	
T. W. Anderson, Esq. ...	...	„ Macknight, Anderson and Company.
J. Dyce Nicol, Esq. ...	...	„ Dyce Nicol and Company.
Geo. W. Walker, Esq. ...	...	„ Gisborne and Company.
W. H McKewan, Esq. ...	...	„ Kelly and Company.
S. Keith Douglas, Esq. ...	...	„ Carlisles Nephews and Company.
Lorraine King, Esq. ...	...	„ Lorraine King and Company.
R. D. Mehta. Esq. ...	...	„ D. B. Mehta and Company.
Rama Kant Sen, Esq. ...	...	„ Hurry Dass Dutta and Company.
Charles Brook, Esq ...	...	„ Mackenzie, Lyall and Company.
E. Henry, Esq. ...	...	„ Blackwood, Blackwood and Company.
John Hay, Esq. ...	...	„ Mitchell, Reid and Company.
Doorga Doss Seal, Esq. ...	...	„ Ram Chund Seal and Company.

Dated Calcutta, the 24th February 1890.

From—G. HICKIE, Esq., Secretary, Calcutta Trades Association,
To—The Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to acknowledge the receipt of your letter No. $\frac{1-H}{1}$20, dated 19th January, on the subject of public holidays in the Province of Bengal.

2. The Committee of the Trades Association have noticed with much satisfaction that this matter is again receiving the attention of the Government. From the statement of facts set out in your letter, it is abundantly manifest that the whole question of public holidays is one of great importance to the mercantile and trading community of Calcutta, and the Committee trust that the present consideration of the subject will result in a settlement which will be more satisfactory to all interests

3. The Trades Association, as far back as the year 1875, addressed the Government of Bengal on the injury inflicted on the commerce of the Port by the prolonged suspension of business during the Doorga Pooja vacation, and the arguments then advanced have not lost any of their force. The inconvenience and loss to the business portion of the European community, characterised by the Government itself as "great and vexatious," continue to be felt, and will increase unless the reasonable claims of those who suffer from the existing state of things and earnestly seek a remedy are adequately met.

4. There is another feature of the question which should not be overlooked. Calcutta is the centre of business for the whole of Upper India, and the cessation of business in Calcutta for twelve consecutive days causes very serious loss and inconvenience to the large community outside Lower Bengal who know nothing of the Doorga Pooja holidays and have no sympathy with them.

5. It is gratifying to the Association to learn from your letter that His Honour the Lieutenant-Governor proposes that only those days of the Doorga Poojas "which are devoted to religious ceremonies should be notified as public holidays under the Negotiable Instruments Act." It was precisely on this basis that the Association, in its representation of March 1875, contended that these holidays should alone be maintained, and the Committee feel sure that the justice which marks His Honour's proposal will commend itself to those who regard the question in all its bearings without feeling or prejudice. His Honour has now, it is noticed, expressed his willingness to limit the number of these holidays to five days under the Negotiable Instruments Act, and to allow a similar number of holidays for the Doorga Poojas by executive order, the latter number to be applicable to certain specified offices under the Government of Bengal. It is further proposed to deal with this distinction under two separate notifications, and in connection therewith you desire to be furnished with the opinion of the Association on the following points.

Whether the effect of the publication of these notifications will be to make a clear distinction between public holidays under the Negotiable Instruments Act and those notified by executive order only, in so far that the Exchange Banks will remain closed on the "public holidays" only, and not on the other days.

6. The proposed notifications will, the Committee believe, be sufficient to make a clear distinction between public holidays under the Act and holidays to be given to Government employés by executive order.

7. The Committee are of opinion that the effect of the notifications will be to minimise, in some measure, the inconvenience heretofore experienced; it will, however, be possible only after some experience of the working of the new arrangement to state whether it has met the requirements of trade and commerce to the full extent desired.

Whether the effect of the publication of these notifications will wholly or partially meet the growing requirements of trade and commerce.

8. In regard to this point, the Committee believe that the time has come when the Government may, without inflicting any real hardship upon any portion of the community, assume a firm attitude and grant to the commercial interests in Calcutta the relief so constantly sought in the direction of the curtailment of the long official Doorga Pooja holidays. The question of interference with religious observances may be at once set aside; there is no wish on the part of the European community to interfere with these, but with reference to the social aspect of the question, it may properly be urged that the Hindus themselves, by opening for the most part their places of business even on the close Pooja days, support our arguments for the reduction of the holidays. The Committee believe that, for years to come, the present practice of allowing Hindu employés a long holiday to visit their homes will be continued, with this difference, however, that the holiday will be granted by the employer and not be forced upon him by a social custom backed up by Government orders.

Whether the effect of the publication of these notifications will be to inflict serious hardship on a considerable section of the community by depriving them of holidays which they now enjoy.

9. In regard to the fourth and last question, I am desired to say that the Committee accept the proposals as a reasonable compromise between the several interests, and with the hope that in their actual working they may be found sufficient.

Whether the proposals now made are accepted by your Association as a reasonable present compromise between interests which admittedly conflict with one another.

10. While action is being taken, the Committee are of opinion that it would be well to lay down as a principle, that when a Hindu holiday falls on Sunday, it shall not be necessary to declare as a public holiday the previous or the following day.

In submitting these remarks for the favourable consideration of His Honour the Lieutenant-Governor, I am directed to convey the thanks of the Committee to His Honour for affording them an opportunity of again expressing their views on this question.

No. 206B, dated Calcutta, the 20th March 1890.

From—A. E. STALEY, Esq., Offg Secretary to the Board of Revenue, L.P.,
To—The Secretary to the Government of Bengal, Financial Department.

I AM directed to acknowledge the receipt of Government order No. $\frac{1-H}{1}$ 23, dated 19th January last, forwarding a copy of a letter addressed to the Chambers and Associations noted in the margin, regarding public holidays in Bengal, and requiring the Board to obtain and submit with their own opinion the opinions of the Collector of Customs, of the Superintendent of Stamps, and of the Collector of Stamp Revenue, Calcutta, on the proposals therein contained.

HON'BLE F. B. PEACOCK.

1. To the Secretary to the Bengal Chamber of Commerce.
2. To the Secretary to the Bengal National Chamber of Commerce.
3. To the Secretary to the Calcutta Trades Association.
4. To the Secretary to the British Indian Association.

To the Secretary to the Indian Association.

2. In reply, I am to state that the officers above referred to were, as desired, consulted on the subject, and an abstract of their opinions is given below for the information of Government.

Collector of Customs, Calcutta.—The only change that the step contemplated would make in the present practice of the Custom House would be the addition of one day to the four days on which it is kept open entirely during the Doorga Pooja holidays.

Provided the other public holidays are left as in the draft notification, there is no reason, as far as the Custom House is concerned, to take exception to the change now proposed.

Superintendent of Stamps, Calcutta.—The Stamping Department of this office consists of one Christian and one Hindu clerk, two pressmen and two coolies. These last are all Mahomedans, and therefore are not affected in any

way so far as their religious observances are concerned by the Doorga Pooja holidays.

If it is eventually deemed expedient to curtail these holidays in the interests of the commerce of the port, there would not be any serious objection to urge so far as this office is concerned. Arrangements might be made by which part of the establishment would be present to do any urgent work, or notice might be given to banks and mercantile firms to get any cheques, &c., they wanted stamped done before the commencement of the holidays. All documents stamped here are printed forms, and it would only be necessary for these parties to lay in a sufficient stock of each kind to carry them over the holidays to allow of the Stamping Department getting the same holidays as other Government servants.

Collector of Stamp Revenue, Calcutta.—As to the supply of stamps by this office, it is to be observed that all firms and men of business, as a rule, provide themselves with a sufficient supply in advance of their ordinary requirements, and particularly against wants during close holidays. The public are also served in this direction by licensed stamp vendors, 70 to 80 of whom have shops in various parts of the town, which are kept open every day, and it is the interest of the vendors to do business even on close holidays.

The number of European, Christian and Mahomedan hands in the office of the Collector is not large enough to admit of the Hindu assistants being relieved during the Hindu holidays; and it is to be borne in mind that the proposal affects not only the officers attached to the Stamp Department, but also those employed in the Treasury and Account Departments, which must necessarily be kept open with the Stamp Department; so that practically almost the entire office will be deprived of a concession which has been long enjoyed and which is highly appreciated for several good reasons.

As regards the effect of the proposed notifications, the Collector feels no hesitation in stating that the proposal, if adopted, would cause serious hardship to a considerable section of the community, and he ventures to state that, so far as this office is concerned, the measure is not needed.

3. As to the Custom House and the office of the Superintendent of Stamps, there need be no difficulty in carrying out the change proposed by Government, nor do the Board think there need be in that of the Collector of Stamp Revenue. There are, it will be seen, means, outside that office, available to the general public to provide themselves during holidays with most, if not all, the stamps they require; and as regards the Doorga Pooja vacation, the Board think it would go far to prevent any inconvenience that might otherwise arise if, some time before the vacation arrived, the Collector were to put a notice in the newspapers asking mercantile firms and others requiring stamps to supply themselves therewith before and not during the holidays, in order that as many of the employés as possible might not be compelled to attend office during the vacation. If this were done, it would not be necessary to have more than one or two clerks present to meet any emergency that might arise. The Collector would no doubt be able to arrange that these clerks should not be Hindus. In this view, the Board see no objection to holidays being notified in Bengal under two separate notifications, as proposed in paragraph 29 of the letter which forms the enclosure of the Government order under reply.

No. 60, dated Calcutta, the 15th March 1890.

From—Baboo Surendronath Banerjee, Honorary Secretary to the Indian Association,

To—The Secretary to the Government of Bengal, Municipal Department.

I am directed by the Committee of the Indian Association to acknowledge the receipt of your letter No. Mis. $\frac{1-H}{1}$22, dated the 19th January 1890, and to observe as follows.

2. The Committee must be permitted to express their regret that the Chamber of Commerce should now seek to reopen the question of the Doorga

Pooja holidays, which was definitely settled after careful consideration by a Committee consisting of such men as Mr. Dampier, Raja Durga Charan Laha, the late Hon'ble Kristo Dass Pal and others; and the views of the Committee received the support of no less an authority than Sir Steuart Bayley, who was then officiating as Lieutenant-Governor of Bengal. "The fact is," remarked Sir Steuart Bayley, "their (those of the mercantile community) interests and those of the Hindu community are on this point not reconcileable, and it is necessary for the Government to decide between the two; and the Lieutenant-Governor does not recommend, for the sake of what would be an inappreciable relief to Commerce, any alteration in the present national holidays of the Hindus." The Committee naturally enquire if anything has happened since then which should lead to the change which the Chamber has so often pressed for. Mr. Cotton states in his letter under reply:—

"The gravamen of the Chamber is, *firstly*, that public business is to a large extent paralysed during these holidays by the closing of the Exchange Banks, which will not undertake the responsibility of transacting business during days upon which negotiable instruments will not mature; and, *secondly*, that the trade of the port is materially affected by the closure of the Shipping Office and the inability to obtain port clearance during these days. It is pointed out that in the interval from 30th September to 10th October 1889, which were declared public holidays under the Act on account of the Doorga and Lakhi Poojas in 1889, the shipping arrivals in the Port of Calcutta showed a gross tonnage of 73,210 and a registered tonnage of 48,179; that the departures showed 63,962 gross and 45,538 registered tonnage; that 29 steamers and two ships arrived in port, and that 19 steamers and 13 ships left the port. The East Indian Railway brought into the market 25,084 tons of goods, and the Eastern Bengal State Railway 4,52,514 maunds, of which 3,63,875 were jute. The fact that all bills maturing in the interval fell due on Saturday, September 28th, is brought to notice as a most serious inconvenience and burden on the trade of the port. In the discussion that took place in 1879, much stress was laid by the native members of the Committee on the fact that the then existing facilities were sufficient. They urged that, though the banks were closed, exchange operations might be and were carried on, and that, as a matter of fact, the banks did take cheques from purchasers of bills during the vacation; and that remittances by telegram or otherwise were not necessarily suspended. The Chamber urge that this is not now the case, and that the banks have felt it unsafe to do any business at all on holidays gazetted under the Negotiable Instruments Act since that Act came into operation, and consequently that the inconvenience to commerce has become intensified."

3 Influenced by these considerations, the Government have suggested a modification of the existing arrangements in connection with these holidays. It is not indeed proposed to curtail the holidays, but they will be provided for in a way somewhat different from what has hitherto been the practice. Only five days, the days of actual religious celebration, will be included as holidays under the Negotiable Instruments Act, and the rest will be declared so by an order of the Government, which would have the effect of placing them on the same footing with the recently created Mahomedan holidays. The Committee must declare their inability to endorse these proposals, and they must enter their respectful but firm protest against any recommendation which would involve any alteration in the existing number of holidays, or the procedure which is now adopted in granting them. The feeling is general that this would be but the beginning of the end, and would mean the eventual curtailment of the holidays. An executive order may vary from year to year, and it involves an element of uncertainty, which would afford each year a further temptation to renewed agitation. Nor is this all. An executive order of the Government of Bengal will not apply to the offices under the Government of India, many of which at the time of the Doorga Poojas are located in Calcutta; whereas a declaration under the Negotiable Instruments Act would have the force of law, and would be binding upon all offices, whether of the local or of the Supreme Government.

4. The most important allegation made by the Chamber, on the strength of which mainly the proposed alteration in the holidays has been recommended, is that "public business to a large extent is paralysed during these holidays by the closing of the Exchange Banks." But the Committee learn that the Exchange Banks are opposed to the curtailment of the holidays and to the changes that have been proposed. If the Committee are correct in their information, then they have no hesitation in saying that the Government would not be justified in making any change in any way in connection with these holidays.

5. There is one other remark which the Committee would desire to make in this connection. In the notification which it is proposed to be issued for the closing of the Government offices, there are some offices named which at the present moment remain closed, but which would be deprived of their holidays if the Government carry out their present proposals; for instance, the office of the Registrar of Assurances now enjoys its annual Doorga Pooja holidays: under the proposed orders it will be deprived of them. The Committee earnestly hope that the Government will continue the present arrangements in connection with the Doorga Pooja holidays. These holidays have a deep hold upon the national mind, and any step which might be construed into an attempt to interfere with them would spread dissatisfaction and alarm throughout the community. The benefit that might be gained, the Committee are convinced, would be inconsiderable compared with the harm that would be done.

Dated Calcutta, the 27th March 1890.

From—BABOO SITANATH ROY, Honorary Secretary to the Bengal National Chamber of Commerce,

To—The Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to acknowledge the receipt of your letters No. $\frac{M\ 1-H}{1}$ 20, dated 16th December 1889, and No. $\frac{M\ 1-H}{1}$ 21, dated 19th January 1890, with their accompaniments. The Committee of the Bengal National Chamber of Commerce have directed me to submit the following for the consideration of His Honour the Lieutenant-Governor.

The Chamber believes that the question raised in the letter of the Government of India, dated the 4th November 1889, of keeping the Currency Office open to some extent during the Doorga Pooja holidays, is one of a most important character, inasmuch as it affects a very numerous portion of Her Majesty's subjects. The question ought not, therefore, to be disposed of without very serious and full consideration in its various aspects.

2. Although the Government of India, in recognition of the views of the Government of Bengal, expressed in Mr. Macaulay's letter (referred to in the above communications), attaches due importance to the necessity of maintaining the liberal principle on which the policy of the Government is based, yet having in view the question of the "inconvenience and loss upon the mercantile community by the entire closure of the Currency Office for 12 consecutive days," offers a solution of this difficulty by proposing to adopt the suggestion of the Head Commissioner of Paper Currency, which it believes "does not necessarily involve a departure" from that principle.

3. The Chamber as composed of merchants and mainly of Hindu members, before expressing its opinion on the particular suggestion, begs to put on record a full exposition of the facts relating to the religious and other aspects of the question, which may help the Government to come to a right conclusion on the subject.

4. The Doorga Pooja is regarded as their greatest festival by the Hindus, specially in Bengal. Its initial ceremony, called *bodhan*, which is regulated according to the practice observed in different families, takes place on different dates previous to the commencement of the image worship days, the longest period from the *bodhan*, including the four days of the Pooja, being 17 days, during which the rituals and Bodhan worship are continuous, as also the various entertainments connected therewith. In former times, therefore, Government in consideration of the above facts and the time required for preliminary

preparation, granted very long holidays, but in later times, in view of the dates on which the Bodhan ceremony was being generally observed and of the improved facilities for travel, the duration of the holidays was reduced to the lowest possible limit, viz. 12 days, inclusive of the Lukshmi Pooja holidays. It may be useful to add that many Hindus specially devote themselves to a very strict religious ritual, called the *Navaratri*, or nine days' fast.

5. During these holidays relatives and friends from different parts of the country meet in the houses of such amongst them as celebrate the Poojas there, or for social reunions at home. Some busy themselves in arranging their private business and domestic affairs, for which they find no leisure during the rest of the year, others enjoy a much-coveted rest or seek to recoup their health in various ways. Thus then, it will be seen that in its religious, social, and humane aspects, the duration of the Doorga Pooja holidays is none too long. It is not also true that the religious holidays are only four. My Committee are not unmindful of the interests of foreign commerce, but they feel that in fixing the number of the Doorga Pooja holidays at twelve, the reduction of those holidays has reached the lowest possible limit.

6. These holidays commence only a day before the latest day for the worship of Bodhan, *i.e.*, the Shastiday, which is indispensably necessary for the preparation of the inaugural ceremony of worshipping the deity; and from that day to the immersion of the image into the river is one consecutive series of devotional days, and the period intervening between the immersion day and the Lukshmi Pooja days is devoted to social and family reunions, which form a part of the religious ceremonies of the Hindus in Bengal.

7. All respectable mercantile firms generally make payments by cheques, which again mostly pass into different accounts in the bank-books, and when cashed at the banks may be converted into coin or notes of all denominations. Whatever small business, therefore, of the mercantile community may be impeded by the Currency Office being closed could be arranged for beforehand, and, as hitherto, without any serious difficulty.

8. Under the above circumstances the Government of Bengal, in Mr. Macaulay's letter above referred to, rightly concurred in the views of the British Indian Association that there was no very great necessity for opening the Currency Office during the holidays, and that a partial opening of it during a portion of the period would be an infringement of the wise policy of the Government.

9. The desirability of a reconsideration of the India Government orders of 1882, based upon the views of the Bengal Government reaffirmed by His Excellency's late decision, rests upon a somewhat exaggerated idea of the inconvenience caused to a portion of the mercantile community.

10. Sir Steuart Bayley, though he allowed that some loss would be caused to the mercantile community by the observance of these holidays in public offices, pointed out that such inconvenience should be subordinated to a much respected popular national custom. As for the public inconvenience, the Chamber is of opinion that the majority of the general public, consisting largely of Hindu merchants themselves, willingly forego work to merge themselves for awhile into the happy domestic life in the country, and thus little or no inconvenience is actually felt by the general public by the entire closure of the Currency Office.

11. My Committee find it difficult to understand why the question of the duration of these holidays should be re-opened once more. It was understood that the Negotiable Instruments Act had settled it once for all, and my Committee respectfully submit that the mere opinion of the Head Commissioner of Paper Currency should not be allowed to have greater weight with the Government than the maturely formed decisions on the subject by successive Viceroys and Governors-General in Council.

12. The Head Commissioner proposes to employ a few non-Hindu clerks in the Exchange Department of the Currency Office; this may be either as additional hands or in place of the Hindu clerks. The Chamber begs to point out that such an arrangement would be introducing a religious test in the public service, which would be contrary to the spirit of the administration and the declared policy of absolute religious tolerance among its subjects by the British

Government. The consideration how far the scheme would harmonise with the arrangements of the Treasury the Chamber cannot undertake to decide now; but with the general knowledge which it has of such arrangements, with the light thrown by the India Government letter itself, it cannot but express an opinion unfavourable to the scheme and to its practicability.

13. The Currency Treasurer, from the very nature of the business that is transacted in the Currency Office, is obliged, to a very great extent, to place implicit confidence in his subordinates. To compel him therefore to accept the services of people not known to him, much less of those in whom he may have no confidence, the Chamber is of opinion, is an unmerited and uncalled for hardship which, with the small amount of deposit which he may reasonably expect from such of his subordinates, may not be mitigated. Besides, in the opinion of the Chamber, the scheme seems to be an infringement of a broad principle.

14. There is yet another objection to keep the Currency Office open even partially during the said holidays. Such opening on the same ground (that is, inconvenience to commerce) must to a certain extent lead to some other offices being kept open, and others would soon follow suit. Thus it is feared that this change is but the thin end of the wedge, which in time must bring about the total abolition of the Doorga Pooja holidays in all public offices, and what is now enjoyed by all the clerks as a right will, if the modification is adopted, be left to the option of the office masters. The question rightly viewed is not one of conflicting interests of the mercantile community and the general public on the one hand and the Hindu clerk on the other, but one of some avoidable inconvenience and perhaps petty loss to a portion of a particular class of merchants, as against the grave religious, social and economic interests of the whole Hindu community, and also as against the declared policy of the Government, and, to a certain extent, against the efficiency of the Government service itself.

15. The Committee beg further to observe they take particular note of the fact that trade is very brisk during the Pooja holidays, the demand for a number of articles being larger during the twelve days than throughout the rest of the year. This may be explained by reason of the large influx of people from all parts of the country bent upon making the most of the holidays. The curtailment of the holidays must necessarily involve a serious pecuniary loss to the trade.

16. With reference to the question raised in your 2nd letter, whether it might not be possible to effect a compromise between interests which admittedly conflict with one another "by restricting the number of the Pooja holidays gazetted under the N. I. Act to five days only, but retaining by executive authority the existing number of holidays for all public offices in Bengal, save the few in Calcutta which are indispensable to the foreign commerce of the port," the Chamber most respectfully beg to observe that such a procedure once sanctioned will ultimately lead to the total abolition of the Doorga Pooja holidays in all offices, especially in Calcutta. For, in the words of Mr. Dampier, the opening of certain offices in Calcutta would govern the practice of all other offices, if not in Bengal, at least at the Presidency, and as such, only those five days gazetted under the N. I. Act would be treated as close holidays, while the other seven days which might be notified as Doorga Pooja holidays under the executive order of the Government would never be observed as such.

17. The Committee of the Chamber apprehend that in time it might be deemed necessary, in the interest of trade, to keep other offices, besides those named in your letter, open, or such a result, they believe, would follow of itself as a necessary consequence, while all the mercantile offices would at once regulate their practice according to that observed in the Government offices.

18. The proposed change would thus necessitate the attendance of all the subordinate officers (Hindus and non-Hindus) even during the days gazetted as holidays under the executive order of the Government. And as Hindus form the bulk, from 90 to 95 per cent. of the total employés or subordinate officers in the several offices in Calcutta, no office can be kept going and in working order, and absolutely no business could be done, unless Hindu employés were made to attend. It will be thus seen that by necessitating the compulsory attendance of all such Hindu employés, the ultimate result would be the extinction of the Pooja holidays, all but the few days which may be gazetted as such

under the N. I. Act, and even of those few days there is absolu tely no guarantee that they will not be required to be sacrificed to the exigencies of the growing trade of this port.

19. Under the circumstances, any curtailment of the allotted number of Pooja holidays now granted under the N. I. Act would not only be a source of serious dissatisfaction to the Hindus in general, whether in Calcutta or in the mofussil, but inflict great hardships upon a very large number of Hindu employés and their families and relatives; while the solution proposed by His Honour the Lieutenant-Governor, though it may satisfy the requirements of the trade of this port, would be regarded as a new departure from the principle of religious neutrality hitherto observed by Government in its relation with the subject races, and as such would give rise to serious heart-burning.

20. There can be no analogy between Hindu and Mahomedan employés, for the Mahomedans form a very infinitesimally small portion of the subordinate officers in the several offices in Calcutta, and thus no harm is done by the Mahomedan religious days being notified as holidays under the executive order of the Government, for the offices during such holidays can very well be kept open without necessitating the attendance of Mahomedan employés.

21. Under the circumstances the Chamber is of opinion that the course proposed by the Bengal Government, by way of solution of conflicting interests, cannot be regarded at all as satisfactory from the Hindu point of view, being all advantageous to the other side. It is true that some inconvenience, and it may be loss, is caused to foreign commerce by the absolute closure of the several Presidency offices for 12 days together, but the same complaint may justly be made not only by the mofussil merchants and traders, but by zemindars alike, on account of the absolute closure of the mofussil Civil Courts and of the Small Cause Court here for a month; but for all that, in a country where the majority of the population are Hindus, and where the Pooja festival has such a strong hold upon them, no one can venture to suggest that the number of Pooja holidays should be curtailed in the mofussil Civil Courts as well.

Dated Calcutta, the 7th April 1890.

From—Raj Kumar Sarvadhikari, Secretary, British Indian Association,
To—The Offg. Secretary to the Government of Bengal, Financial Department.

I have the honour to acknowledge the receipt of your letters noted in the margin* on the question respectively of keeping the Currency Office open to some extent during the Doorga Pooja holidays, and of the number of public holidays to be observed in the Bengal Province under the Negotiable Instruments Act. In reply I am directed by the Committee of the British Indian Association to submit, for the consideration of His Honour the Lieutenant-Governor, the following observations.

* No. Mis. $\frac{1H}{1}$ 21, dated 16th December 1889.

No. Mis. $\frac{1H}{1}$ 21, dated 19th January 1890.

2. It seems unnecessary to the Committee to refer to the history of the question previous to the year 1882. In March of that year the Chamber of Commerce submitted certain representations, to be noticed hereafter, respecting the curtailment of the Doorga Pooja holidays. The Government of Bengal on the 27th July 1882 made the following pertinent remark: "The inconvenience and loss which the mercantile community suffer from the existing state of things, great and serious as they are, cannot be remedied without inflicting a still more serious hardship on a far more numerous, though less influential, portion of the community." The Government of India in September 1882 felt "bound to attach its proper weight to the strong attachment which the Hindu community of Calcutta manifest to these holidays, and to the serious hardship which any curtailment of them would inflict on a large class." The Governor-General in Council accordingly "regretted that the consideration put forward by the Bengal Chamber of Commerce did not appear to him sufficient to justify any modification of the orders passed in January 1880, or the re-opening of a question which had been decided after careful consideration in all its aspects."

3. The principle so deliberately laid down in 1882 has since been reaffirmed in the letter of the Government of India, dated 4th November 1889,

received with your letter of the 16th December last. In suggesting the possibility of making certain arrangements for the conduct of a specified class of business in the Currency Office during a portion of the holidays, the Government of India remark, paragraph 6, that such arrangements do not "necessarily involve a departure from the *principle on which the policy of Government is based.*"

4. The Committee of the Association observe that the Negotiable Instruments Act was passed in 1881. In their representation made to the Government of India in March 1882 the Chamber of Commerce dwelt on the fact "that great and general inconvenience and serious loss are caused by the total closing of the Currency and other Government offices for the whole period of 12 days, and on the possibility of making arrangements by which the employés of Government offices could take leave in relays without stopping the work of the offices. The unqualified decision of the Government on this representation has been already adverted to. It is now only necessary to refer to two circumstances which require particular notice, viz. (1) that the representation was made and the orders of Government were passed some time after the Negotiable Instruments Act had been in operation, and (2) that all that the Chamber asked for was the possibility of making some arrangements for the conduct of business in particular Government offices as against the "*total closing*" thereof.

5. The gravamen of the Chamber's present contention is, 1*st*, that public business is to a large extent paralysed during these holidays by the closing of the Exchange Banks, and 2*nd* that the trade of the port is materially affected by the closure of the Shipping Office and the inability to obtain port clearances.

6. Hitherto the objections raised were based on the inconvenience caused to trade by the continuous closing for 12 days of certain Government offices only. The objection that Exchange Banks will not undertake the responsibility of transacting business during days upon which negotiable instruments will not mature is now raised for the first time, *i.e.*, eight years since the Act has been in operation; at all events the inconvenience could not have been keenly felt. Whatever inconvenience was heretofore entailed upon the mercantile community by the general observance of the Doorga Pooja holidays has been removed to a great extent by the Bank of Bengal and Custom House being kept open during certain days of the period. The interests of Exchange Banks depend altogether on those of commerce; in fact both act upon each other; and if in the interests of trade it is essentially necessary that they should be kept open, at least on the days on which the Bank of Bengal transacts business, it is only natural to suppose that they will be kept open. Perhaps the inconvenience caused by their remaining closed is not great, or is minimised by the Bank of Bengal being kept open. If the Bank of Bengal can transact business, notwithstanding the holidays, in all its departments—Exchange as well as others—it does not appear why other Banks, having large transactions, should find it unsafe to do any business at all on certain days among the holidays gazetted under the Act. In this they will be particularly helped if arrangements can be made in the way suggested by the Government of India for the transaction of business in the Government Currency Office.

7. The second objection now raised by the Chamber is as respects the closing of the Shipping Office during the holidays. The objection is of the nature of that raised against the total closing of the Currency Office. Both will be noticed further on.

8. The general question now under discussion under the orders of His Honour the Lieutenant-Governor is whether it would not serve all interests to notify only four of the Doorga Pooja holidays under the Negotiable Instruments Act, and to notify the rest as holidays except in certain offices in Calcutta, which will be kept open for all these days to meet the exigencies of commerce. If the words of Mr. Dampier, quoted in your letter, do not fully apply, "if the opening of these offices would not necessarily govern the practice of all or nearly all the other offices in Bengal," it would, my Committee fear, govern the practice of all or nearly all the offices in the Presidency, imperial as well as provincial. The Mahomedan holidays notified by executive order are, so far as the Committee are aware, scarcely observed in the offices in Calcutta, and the opening of these on the Mahomedan holidays scarcely causes any inconvenience, for the number of Mahomedan employés is very insignificant, and such employés

can always obtain leave without detriment to the work of the offices concerned. Hindu employés naturally form the majority—a very large majority—in the Presidency offices, and the result of the notifications proposed to be issued will be, the Committee anticipate, the compulsory attendance of Hindu employés not only in the excepted offices, but in all or nearly all other offices in Calcutta eight days out of the twelve. This means that the interests of commerce should be entirely subserved, while a large though less influential portion of the Hindu community of Calcutta, admitted to be strongly attached to this national holiday, will be subjected to serious hardship. Such a result, the Committee are distinctly of opinion, would be subversive of the principle on which the policy of Government is based. That principle, the Committee repeat, is the prevention of hardship to the Hindu community of Calcutta even at the risk of some inconvenience and loss to the mercantile community. The Government of Bengal on the 27th July 1882 observed :—"It is true that it was proposed last year to require only a very small section of the establishment to attend for a part of two days; but it is justly urged that the principle on which the policy of Government is based would none the less be unnecessarily infringed." The proposed notifications would not the less, the Committee venture to hold, cause an infringement of the principle deliberately accepted by Government, and the Committee earnestly trust that His Honour the Lieutenant-Governor will be as careful to maintain it as the Government of 1882 was.

9. That in the abstract all questions of leave between employer and employés are purely private, and the Government, which has no State religion of its own, can claim no right on principle to legislate about holidays. As a matter of fact leave on holidays is granted as a matter of favour, and this favour is regulated by consideration of a wider kind than what is indicated by the abstract right. It is well known and admitted that if all holidays be stopped work would not be necessarily stopped, but that certain sections of the community would be grievously hurt, and it is to avoid this injury to the feelings of the community that leave is allowed on broad statesmanlike principles, and not with an eye to the smallest leave possible in the case of certain departments, as in the Navy, where leave for the observance of the Sabbath is not granted. But in questions concerning general leave, such facts are never taken into account. Similarly, in considering the question of Banking and Shipping Offices, we should not think proper to alter or affect the general law. Special conveniences may be secured for particular sections of the community, and that most readily by departmental orders, and not by changing the law. It is undeniable that a general denial of leave on particular holidays would be more desirable to some persons than departmental orders, but in a mixed community our merchants should be satisfied with the principle of mutual toleration, and not insist upon their dues at the sacrifice of those who do not belong to their profession. With the Currency Office in a position to encash Council Drafts during some of the holidays, the Exchange Banks will, it is supposed, find it safe to work, and with the Shipping Office similarly open at stated intervals along with the Custom House, there could be no impediment to port entries and port clearances being effected. Inconveniences now felt are likely to be removed to a great extent if these measures are adopted while holidays are kept intact; and to this extent the Committee of the Association give their assent.

Dated Calcutta, the 4th November 1889.

From—Pundit Mohesh Chunder Nyaratna,
To—The Secretary, Bengal Chamber of Commerce.

In reply to your letter of the 30th ultimo, No. 884-89, I enclose herewith, in a tabular form, a list of Hindu holidays for the year 1890. I may add that in drawing up the list I have consulted the learned Professors of the Sanskrit College. The Hindu holidays are mostly festivals connected with religion in which worship or ceremonies with a religious sanction are indissolubly associated with festivities. It sometimes happens that a day of worship, with or without festivity, is followed by a day of festivity with no worship, but with only certain observances with a religious sanction. A few of the holidays are

days of fasting followed by no fasting. In my list I have included no day in which there is no worship, with or without festivity, or ceremony with religious sanction, with or without festivity.

A list of Hindu holidays for the year 1890.

Holidays.	Months and dates.	Days of the week.	Remarks.
Saraswati Puja ...	25th and 26th January ...	Saturday and Sunday	This is a festival observed by all Hindus, except those belonging to the lowest castes.
Siva Ratri ...	17th and 18th February ...	Monday and Tuesday	The first day is a day of fast. The fast is kept by only a few.
Dol Jatra or Holi ...	5th and 6th March ...	.....	There are two days of worship on this occasion. This is a very popular festival with Hindustanees, but not so with Bengalees.
Basanti Puja ...	26th to 30th March ...	.....	These are festivals observed by only a few people.
Annapurna Puja ...	28th March	.....	
Ram Navami ...	29th ,, ...	.....	This is a moderately popular festival.
Chaitra Sankranti ...	12th April	Saturday	This is a holiday observed by all orthodox Hindus of good caste.
Dasahara ...	29th May	Thursday ...	This is a bathing festival and is universally observed. The time of the day for bathing is every year not the same. It may be any hour of the day.
Suan Jatra ...	3rd June	Thursday ...	This is not a general festival.
Rutha Jatra ...	19th ,, ...	Thursday ...	Not an important festival.
Punor Jatra ...	27th ,, ...	Friday	Ditto ditto.
Janmashtami ...	7th and 8th August ...	Thursday and Friday...	An important holiday.
Mahalaya ...	13th October	Monday	A day for offerings to the names of ancestors, observed by all orthodox Hindus of good caste.
Durga Puja ...	19th to 23rd October ...	Sunday to Thursday...	A most important festival.
Lakshmi Puja ...	27th and 28th October ...	Monday and Tuesday	A moderately popular festival.
Kali Puja ...	11th and 12th November...	Tuesday and Wednesday.	An important festival.
Bhratri Dwitya ...	14th November ...	Friday	At this festival sisters entertain brothers. A general and most important festival, though the worship connected therewith has now for the most part been dispensed with. Ceremonies with a religious sanction are, however, observed.
Kartick Puja ...	14th and 15th November...	Friday and Saturday ..	A moderately popular festival.
Jagat Dhatri Puja ...	20th and 21st ditto ...	Thursday and Friday	An important festival.
Rassa ...	25th and 26th ditto ...	Tuesday and Wednesday.	A festival observed by a few, 25th according to Saktas and 26th according to Vaishnavas.

Mohesh Chunder Nyaratna.

Dated Calcutta, the 14th November 1889.

Demi-official from—Pundit Mohesh Chunder Nyaratna,
To—The Secretary to the Bengal Chamber of Commerce.

In reply to your letter of the 12th instant, No. 914—89, I beg to say that the Doorga Pooja in 1890 will really commence on the 19th October. On this day the worship is to consist of *Bodhana* and *Amantrana*, *i.e.*, of rites for awakening the *Devi* from her sleep, the season being one for sleep to the gods and goddesses according to Hindu belief, and for invitation to her. This ceremony takes place at dusk, and is performed by the priest, and, in the case of Brahmans, sometimes by the head of the family assisted by the priest. The

regular pooja with festivities commences on the morning of the 20th October, and continues to the 22nd. On the 23rd there is to be *Bisarjana* ceremony, *i.e.*, the parting ceremony with the *Devi*. This ceremony, like that of awakening and inviting, is performed by the priest in the morning. There is, however, the ceremony of throwing the idol into rivers or tanks in the afternoon, with attendant processions, and the exchange of greetings among relatives and friends in the evening. The strictly worship days for others besides priests in 1890 will thus be the 20th, the 21st, and 22nd October. The strictly worship day for the Lukhi Pooja will be the 27th October.

In conclusion, I think it proper to observe that among the people the festivities, &c., attendant on poojas are matters of greater interest than the poojas (strictly religious worship) themselves. From this point of view, I consider the day immediately following the three days of regular pooja on the Doorga Pooja occasion a necessary part of the period of the pooja. From the same point of view, I consider that the day following the day of worship on the occasion of Kali Pooja, instead of the pooja day itself, should be holiday when only a day's holiday is given on this occasion. The pooja takes place at night, and the attendant festivities and processions take place for the most part the following day.

The enclosure of your letter is returned herewith.

AGRICULTURAL CONGRESS TO BE HELD AT VIENNA IN OCTOBER NEXT.

The 9th July, 1890.—The following papers are published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secy. to the Govt. of Bengal.

Circular No. 5—5-9M&Ex., dated Simla, the 2nd July 1890.

From—J. W. P. MUIR-MACKENZIE, ESQ., C.S., Under-Secy. to the Govt. of India, Revenue and Agricultural Department,

To—The Secretary to the Government of Bengal.

IN continuation of circular No. 3—5-7 dated the 15th May last, I am directed to forward, for the information of His Honour the Lieutenant-Governor, copy of a further letter received from the Imperial and Royal Austro-Hungarian Consul-General, Bombay, on the subject of the Agricultural Congress to be held at Vienna in October next.

No. 561, dated Bombay, the 9th June 1890.

From—F. STOCKINGER, ESQ., Imperial and Royal Austro-Hungarian Consul General,

To—The Secretary to the Government of India, Foreign Department.

REFERRING to my letter, dated the 31st March, No. 311, I have the honour to inform you that, according to a letter recently received from the Imperial Royal Agricultural Society in Vienna, the languages of the debates at the Agricultural Congress to be held in October next will be the German, English and French, not German and French only, as previously stated.

Only papers that may be presented to the Congress have to be written in German or French.

His Excellency the Austrian Minister for Agriculture very much hopes that he will be able to welcome members, official or non-official, from a country of such vast importance in agriculture as India.

I may also mention that the Austro-Hungarian Lloyd's Steam Navigation Company has granted a reduction of 50 per cent. on their ordinary fares for delegates to the Vienna Congress, and similar reductions have been made by the principal railway lines in Austria and Hungary.

DISTRICT ROAD FUND.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

ROAD CESS.

No. 2422R.C.

Dated Calcutta, the 11th July 1890.

READ—

Letter from the Accountant-General, Bengal, No. 135L.F., dated 2nd July 1890, submitting an abstract of receipts and expenditure of the several District Road Committees in Bengal for the quarter ending 31st March 1890.

RESOLUTION.—The Lieutenant-Governor directs that the accounts of the receipts and expenditure of the several District Road Committees in Bengal for the 4th quarter of the year 1889-90 be published in the *Calcutta Gazette* and circulated to the officers concerned.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the abstract of receipts and expenditure, be published in the Supplement to the *Calcutta Gazette*.

Ordered also that a copy of this Resolution, and of the abstract referred to, be forwarded to the Commissioners of the Rajshahye, Bhagulpore, Chittagong, and Chota Nagpore Divisions, to the Superintending Engineers of the Eastern and Western Circles, and to the Financial Department of this Government for information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secretary to the Govt. of Bengal.

DISTRIC

Statement of Receipts and Expenditure of the several District Ro

REC

	Districts.	Balance in treasury on 1st January 1890.	Provincial Rates. Cess on lands.	Cess on mines.	One per cent. road cess.	Total.	Interest on arrears of road cess.	Public Works. Road tolls.	Ferry tolls.	Total.	Irrigation. Canal tolls.	Misc. Rent of serais and staging-bungalows.	Fees, fines and forfeiture
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A.
Cess Districts.	Darjeeling ...	2,508 1 0	10,862 3 10	504 9 5	.....	11,366 13 3	1 8 3	.....	.....	.....	.....	.....	.....
	Hazaribagh ...	17,152 11 0	25,241 7 8	1,574 10 6	....	26,816 2 2	20 13 8	....	.....	.....	.....	62 8 0	1,664 2
	Lohardugga ..	15,247 7 11	29,640 3 4	.....	....	29,640 3 4	25 7 11	....	.....	.....	.....	98 8 0	2,156 7
	Manbhoom ...	19,985 4 2	21,572 9 6	708 11 5	....	22,281 4 11	46 15 5	.....	.....	.....	.....	617 13 6	2 0
	Total ...	45,593 8 1	78,516 8 4	2,787 15 4	.....	81,304 7 8	94 15 3	.....	.....	.....	.....	778 13 6	3,822 9
Non-Cess Districts.	Chittagong Hill Tracts ...	2,653 0 4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Sonthal Pergunnahs	25,552 3 8	.....	.....	.....	.....	.....	.....	.....	.....	.....	125 12 0	.....
	Singbhoom ...	11,109 3 6	1,224 9 6	19 4 9	.....	1,243 14 3	.....	.....	.....	.....	.....	3 0 0	.....
	Total ...	40,314 7 6	1,224 9 6	19 4 9	.....	1,243 14 3	.....	.....	.....	.....	.....	128 12 0	.....
	Grand Total ...	85,907 15 7	79,741 1 10	2,807 4 1	.... ..	82,548 5 11	94 15 3	.....	.....	.....	.....	907 9 6	3,822 9

EXP

	Districts.	Balance in treasury on 1st January 1890.	Refunds. Cess.	Other receipts.	Total.	Provincial Rates. Establishment and contingencies of office of collection.	Administration. Establishment and contingencies of Committee's office.	Percentage cost of establishment for offices of account and control.	Total.	Stationery. Stationery and printing.	Pu. Original works.	Repairs.	Establishment.	Tools and plant.
		Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Cess Districts.	Darjeeling ...	.....	.....	.....	.....	299 7 0	365 12 0	.....	365 12 0	40 15 0	4,841 4 6	4,209 1 6	930 6 0	2 14 0
	Hazaribagh ...	.....	.....	.....	.....	1,324 5 6	300 8 0	.....	300 8 0	69 7 9	3,560 0 0	15,353 11 2	1,929 4 0	4 0 0
	Lohardugga ...	.....	.....	.....	.....	2,441 1 2	97 4 0	.....	97 4 0	71 0 11	1,315 0 6	20,040 8 6	2,413 12 0	674 3 3
	Manbhoom ...	.....	.....	.....	.....	468 13 0	386 13 0	.... ..	386 13 0	28 3 9	2,030 10 9	7,966 7 1	1,716 8 0	168 12 7
	Total ...	.....	.....	.....	.....	8,153 10 2	1,150 5 0	.....	1,150 5 0	218 11 5	11,746 15 9	45,569 12 3	6,989 14 6	849 13 10
Non-Cess Districts.	Chittagong Hill Tracts ...	.....	.....	.....	.....	.....	64 0 0	.....	64 0 0	27 13 9	565 14 9	4,718 1 0	1,560 2 2	106 3 9
	Sonthal Pergunnahs	.....	.....	.....	.....	.....	250 0 0	.....	250 0 0	.....	1,428 7 9	7,313 1 3	2,125 0 0	45 1 0
	Singbhoom ...	.....	.....	.....	.....	.....	118 12 9	.....	118 12 9	0 6 3	1,166 12 1	5,039 2 3	654 11 5	16 8 9
	Total ...	.....	.....	.....	.....	.....	432 12 9	.....	432 12 9	28 4 0	3,161 2 7	17,070 4 6	4,339 13 7	167 13 6
	Grand Total ...	.....	.....	.....	.....	8,153 10 2	1,583 1 9	.....	1,583 1 9	246 15 5	14,908 2 4	62,640 0 9	11,329 11 7	1,017 11 4

Fort William,
The 16th June 1890.

) FUND.

ittees for the Fourth Quarter of the year 1889-90, *ending* 31st *March* 1890.

	Total.	Grant from Government.	Suspense Account. Advances.	Deposits.	Total.	Total receipts.	Balance of imprest in the hands of Engineers and others, decreased.	Balance of unpaid cheques, increased.	Total receipts, including balance.	Outlay.	Balance in treasury on 31st March 1890.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
	.....	500 0 0	5,282 13 10	.....	5,282 13 10	17,151 3 4	250 0 0	199 1 2	19,808 5 6	13,193 14 6	6,615 7 0
	1,726 10 0	3,781 11 2	2,526 13 1	.....	2,526 13 1	34,872 4 1	.....	6,173 10 10	58,194 9 11	22,882 10 1	35,316 15 10
	2,254 15 0	3,640 0 0	1,172 8 10	496 0 0	1,668 8 10	28,419 3 1	.....	4,399 15 1	48,366 10 1	28,547 10 3	19,818 15 10
0 0	2,819 13 6	750 0 0	598 2 11	.....	598 2 11	26,466 4 9	.....	.....	37,151 8 11	14,019 6 11	23,432 2 0
0 0	6,801 6 6	8,661 11 2	9,550 6 8	496 0 0	10,046 6 8	1,06,908 15 3	250 0 0	11,072 11 1	1,63,825 2 5	78,642 9 9	85,182 8 8
	.....	5,577 0 0	95 7 7	.....	95 7 7	5,672 7 7	278 6 0	3,818 10 9	12,382 8 6	7,042 3 5	5,340 5 3
5 12 9	161 8 9	.....	3,008 15 3	.....	3,008 15 3	3,170 8 0	160 3 6	1,873 2 6	31,756 1 8	14,481 1 0	17,275 0 8
0 0 9	233 0 0 9	.....	508 0 0	775 0 0	1,283 0 0	2,739 15 0	.....	.....	13,869 2 6	7,599 1 3	6,270 1 3
5 13 6	394 9 6	5,577 0 0	3,612 6 10	775 0 0	4,387 6 10	11,582 14 7	438 9 6	5,691 13 3	58,007 12 10	29,122 5 8	28,885 7 2
5 13 6	7,196 0 0	14,238 11 2	13,162 13 6	1,271 0 0	14,433 13 6	1,18,511 13 10	648 9 6	16,764 8 4	2,21,832 15 3	1,07,764 15 5	1,14,067 15 10

URE.

	Total.	Irrigation. Canal toll establishment and contingencies.	Miscellaneous. Staging-bungalow establishment and contingencies.	Staging-bungalow, petty construction and repairs.	Miscellaneous.	Total.	Contribution to Provincial Government.	Suspense Account. Advance.	Deposit.	Total.	Total expenditure.	Balance of imprest in hands of Engineers and others, increased.	Balance of unpaid cheques, decreased.	Total outlay.
Works.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.
	9,983 10 0	.....	.....	.....	.....	.....	...	2,494 2 6	.....	2,494 2 6	13,193 14 6	.....	.....	13,192 14 6
	18,846 15 2	.....	.....	.....	.....	.....	...	1,605 7 9	37 0 0	1,642 7 9	22,882 10 1	.....	.....	22,882 10 1
	24,443 8 3	.....	44 0 0	44 13 11	.....	88 13 11	...	579 4 0	.....	579 4 0	28,407 10 3	50 0 0	.....	28,547 10 3
	11,883 6 5	.....	61 8 0	737 3 11	56 12 0	855 7 11	...	605 0 0	200 0 0	805 0 0	14,005 7 4	13 15 7	.....	14,019 6 11
			.....	444 3 8	.....	444 3 8	...							
	65,156 7 10	.....	105 8 0	1,216 5 6	56 12 0	1,378 9 6	...	5,283 14 3	237 0 0	5,520 14 3	78,578 10 2	63 15 7	.....	78,642 9 9
	6,950 5 8	.....	.....	.....	.....	.....	...	.....	.....	.....	7,042 3 5	.....	.....	7,042 3 5
	10,911 10 0	.....	76 1 6	67 6 0	.....	143 7 0	...	3,176 0 0	.....	3,176 0 0	14,481 1 0	.....	.....	14,481 1 0
	6,877 2 6	.....	75 0 0	106 3 3	1 8 6	182 11 9	...	250 0 0	170 0 0	420 0 0	7,599 1 3	.....	.....	7,599 1 3
	24,739 2 2	.....	151 1 0	173 9 3	1 8 6	326 2 9	...	3,426 0 0	170 0 0	3,596 0 0	29,122 5 8	.....	.....	29,122 5 8
	89,895 10 0	.....	256 9 0	1,389 14 9	58 4 6	1,704 12 3	...	8,709 14 3	407 0 0	9,116 14 3	1,07,700 15 10	63 15 7	.....	1,07,764 15 5

E. T. ATKINSON,
Accountant-General, Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 12th July, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN. 1	Burdwan July 12, '90	6·14	Weather—rainy. Transplantation of paddy going on. Prospects of sugarcane good. Prices of common rice:— Srs. Burdwan ... ... 17 Culna ... ... 13 Ranigunge ... ... 16 } per rupee.
	Culna ...	2·24	
	Ranigunge ...	4·77	
2	Bankoora „ 12, '90	3·75	Weather—rainy with sunshine at close of week. Transplanting of *amun* rice going on. Standing crops thriving. It is reported that the late high flood in the Damooda has caused some damage to sugarcane in the northern part of thana Sonamookhi. Common rice sells at 18 seers per rupee at Sudder and 17½ seers at Bishenpore.
3	Birbhum „ 12, '90	9·01	Unusually heavy rain throughout the southern area of the district. Elsewhere good rain. Cultivation going on actively. Transplanting has begun. Prospects very good so far. Price of common rice still 16 to 20 seers per rupee.
	Rampore Haut ...	3·63	
4	Midnapur „ 12, '90	1·42	Rain fell on most days. Paddy cultivation progressing well. Dry weather now would be good for indigo. Prices of common rice:— Srs. Ch. Sudder ... ... 15 0 Contai ... ... 19 0 Tumlook ... ... 14 8 Ghatal ... ... 15 3½ } per rupee.
5	Hooghly „ 12, '90	1·40	Weather—fair with light showers. All crops doing well. Prices of common rice:— Srs. Sudder ... ... 13½ Serampore ... ... 16 Jehanabad ... ... 16 } per rupee.
	Serampore ...	1·49	
	Jehanabad ...	1·95	
	Howrah „ 12, '90	4·68	Weather—showery. Paddy crops and sugarcane doing well. Transplanting of *amun* going on. Some damage to jute crop reported from the Uluberia subdivision. Price of coarse rice 14 to 15 seers per rupee.
	Uluberia ...	1·73	
	Central Districts.		
PRESIDENCY DIVN. 6	24-Perghs. July 12, '90	6·35	Weather—seasonable. Transplantation of *amun* going on. Prospects fair. Price of rice stationary.
7	Nuddea „ 12, '90	1·96	Weather—seasonable. Prospects of crops on the ground promising. Flood water has receded a little in the Kushtea subdivision.
	Kushtea ...	3·01	
	Meherpore ...	2·43	
	Chuadanga ...	4·60	
	Ranaghat ...	2·45	
8	Khoolna „ 12, '90	3·93	Weather—rainy. Prospects of all crops continue good. Some slight injury appears to have been caused in the Sudder on account of excessive rainfall.
	Bagirhat ...	2·60	
	Satkhira ...	1·22	
9	Jessore „ 12, '90	2·84	Weather—cloudy and rainy. State and prospects of standing crops generally good, but some damage to paddy crops sown late on the low lands is apprehended in the Jhenidah and Narail subdivisions.
	Jhenidah ...	6·02	
	Magura ...	2·91	
	Narail ...	1·48	
	Bongong ...	1 3	
10	Moorshedabad „ 12, '90	2·88	Weather—seasonable. *Aus* and *amun* doing well. *Aus* is being weeded and *amun* transplanted.
RAJSHAHYE DIVN. 11	Dinagepur „ 12, '90	4·91	Weather—fairly cool with heavy showers nearly every day. Transplantation of *haimanti* paddy going on. Outturn of *bhadoi* rice and jute may now be estimated at 18 annas each. Price of rice as before.
	Thakurgaon ...	2·35	
12	Rajshahye „ 12, '90	6·45	Weather—rainy and clouds gathering. Reaping of jute going on. Condition of standing crops (sugarcane, *bhadoi*, &c.) good. Transplanting of winter paddy (*amun*) commenced in Borind, and sowing going on elsewhere. More rain wanted in Borind.
	Nattore ...	3·61	
	Nowgong ...	2·33	
13	Rungpur „ 12, '90	1·28	A break in the rains. Temperature high, but the effect is modified by cool easterly winds. Transplantation of *amun* rice proceeding. *Aus* harvest drawing to a close with excellent results. Much damage has been done by floods in the Brahmaputra churs owing to the sudden rise of that river.
	Kurigram ...	1·32	
	Gaibanda ...	1·85	
	Nilphamari ...	4·23	
14	Bogra „ 12, '90	1·84	Weather—seasonable. Jute is being cut and steeped in some places. The crop is likely to be a bumper one. The harvest of *aus* rice has begun, with good outturn. The transplantation of *amun* is going on. Common rice is selling at 18 seers per rupee.
	Sherpur ...	2·27	
	Nowkhilla ...	2·21	
15	Pubna „ 12, '90	2·33	Weather—cloudy and rainy. Jute, *amun*, and *aus* doing well. Jute and *aus* are being harvested at Serajgunge. Prices slightly lower.
16	Darjeeling „ 12, '90	17·11	Weather—rainy with occasional breaks in the hills. Too much rain in the Terai. The excessive rain in the Terai is likely to injure the jute and *bhadoi* crops. *Bhutta*, *bhadoi*, *marua*, and *haimanti* progressing well. Potatoes being harvested in some places in the hills. Prospects good.
17	Julpigoree „ 12, '90	11·30	Weather—cloudy and sultry. *Bhadoi* paddy and jute growing well. In some of the thanas the condition of these crops is bad owing to heavy rain. Prices stationary.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
		Eastern Districts.		
Dacca Divn.	18	Dacca ...	.....	Report not received.
	19	Furreedpur July 12, '90	0·95	Weather—seasonable. Some portions of thanas Furreedpur and Ainpur have been overflooded and some damage done to the crops. Elsewhere prospects are favourable. Price of rice stationary.
	20	Backergunge „ 12, '90	3·16	Weather—seasonable. Prospects of *aus* crop fair, but the *amun* seedlings have been injured in some places by the sudden rise of water. Common rice selling at about 13 seers per rupee.
	21	Mymensingh „ 12, '90	4·41	Weather—seasonable. Rain falls every day. Prospects of standing crops very good. Harvesting of *aus* rice has commenced. *Amun* rice is being transplanted. Common rice sells at 13½ seers per rupee.
Chittagong Divn.	22	Chittagong „ 12, '90	17·59	Weather—seasonable. *Pania aus* being harvested. Common rice selling at 17 seers per rupee.
	23	Noakholly „ 12, '90	5·46	Weather—seasonable. State of *aus* crop good. Sowing of *amun* progressing. Price of rice stationary.
	24	Tipperah „ 12, '90	4·59	Weather—cloudy, cool and damp. *Amun* and jute thriving. *Aus* being harvested. Prospects favourable. Prices stationary.
	25	Chittagong Hill Tracts. „ 11, '90	4·13	Showers daily. Strong south-west wind throughout the week. *Jum* paddy and cotton plants progressing. Lands are being ploughed for late rice crop. Common rice is being sold at 11 seers 6¾ chittacks per rupee.
		Hill Tipperah „ 11, '90	1·73	Weather—rainy and cool. Harvesting of *aus* paddy continues. Transplanting of *amun* going on. Prospects of jute favourable. Common rice selling at 15 seers per rupee.
BEHAR.				
Patna Divn.	26	Patna „ 12, '90	2·81	Weather—hot. Alternate rain and sunshine during the week. Sowing of paddy and *bhadoi* crops still going on. *Makai*, *kauni*, and paddy previously sown are growing well. Prices of food-grains slightly rising.
		Dinapore ...	1·45	
	27	Gya „ 12, '90	10·06	Weather—hot and cloudy. Transplanting of *marua* and sowing of *makai* and paddy going on. Sugarcane doing well. Sufficient rain for *bhadoi*. Prices of food-grains stationary.
	28	Shahabad „ 12, '90	5·94	Weather—cloudy and rainy with occasional breaks. Sowing of *bhadoi* and transplanting of paddy in progress. Sugarcane doing well. Prospects hopeful.
		Buxar ...	1·04	
		Bhabuah ...	1·70	
		Sasseram ...	1·34	
	29	Durbhunga „ 12, '90	4·91	Weather—cloudy and rainy. Prospects of *bhadoi* very favourable. Transplanting of *marua* is rapidly progressing. Paddy seedlings doing well. Indigo manufacture in progress. Price of common rice varies from 14 to 15½ seers per rupee.
		Madhubani ...	2·23	
		Somastipur ...	1·21	
	30	Muzufferpur „ 12, '90	3·76	Weather—rainy on most days of the week. Temperature moderate. Transplantation of *marua* and rice has commenced. Prospects of all crops good.
		Hajipur ...	6·45	
		Sitamarhi ...	2·87	
	31	Sarun „ 12, '90	1·55	Weather—wet and stormy. Rain almost daily. Prospects promising, but a few days' sun required for all crops.
	32	Chumparun „ 12, '90	5·59	Weather—very hot; fair and cloudy alternately. Sufficient rain all over the district. Transplantation of rice progressing. *Bhadoi* crops thriving. Indigo manufacture going on. Prices almost stationary.
		Bettiah ...	6·09	
Bhagulpur Divn.	33	Monghyr „ 12, '90	0·53	Weather—cloudy and warm with easterly wind. *Bhadoi* sowings doing well, also indigo and *makai*. The area submerged in Jamui has been resown.
		Begusserai ...	0·66	
		Jamui ...	0·30	
	34	Bhagulpur „ 12, '90	5·01	Weather—rainy. Transplanting in progress. In Soopool the late heavy rain has facilitated transplanting of *bhadoi*, which was backward. In Banka half the area under *makai* has been sown already.
		Banka ..	0·91	
		Mudhepura ...	5·20	
		Soopool ...	5·63	
	35	Purneah „ 12, '90	5·58	Weather—showery and sultry. *Bhadoi* rice is being weeded; it is everywhere a good crop. Indigo is being manufactured. Transplantation of *aghani* rice going on. *Kauni* is being harvested.
		Kishengunge ...	6·62	
		Arrareah ...	7·12	
	36	Maldah „ 12, '90	2·13	Weather—rainy and cloudy; high east wind at times. *Bhadoi* sowings completed. Transplantation of winter paddy begun, but some more rain is wanted for it at Bumangola. Indigo manufacture continues. Common rice selling at from 13 to 17 seers per rupee.
		Chanchal ...	1·83	
		Shibgunge ...	4·32	
		Gajole ...	1·29	
	37	Sonthal Perghs. „ 12, '90	5·14	Very heavy rain at the Sudder; good rain everywhere. Prospects of crops excellent.
		Deoghur ...	1·53	
		Godda ...	2·63	
		Jamtara ...	1·90	
		Pakour ...	2·78	
		Rajmehal ...	2·76	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
Orissa Dtn. 38	Cuttack July 12, '90	2·55	Weather—seasonable. Extent of the cultivation of *satika* is as follows:— Annas. Sudder ... ... 16 Jajpur ... ... 14·4 Kendrapara ... ... 14 Banki ... ... 16 *Satika* is being weeded and is in excellent condition. General prospects good.
Orissa Dtn. 39	Pooree ,, 10, '90 Khoorda ...	2·44 2·15	Weather—seasonable. Puddling and transplanting of *sarad* crop going on. *Beali* crop is being weeded. Prospects good. Price of common rice stationary.
Orissa Dtn. 40	Balasore ,, 12, '90	0·55	Weather—cool and cloudy. Transplanting and puddling of rice crop in progress. Prospects generally good. Number of coolies on relief-works 40.
CHOTA NAGPORE.			
	South-West Frontier Agency.		
Chota Nagpore Dtn. 41	Hazaribagh July 12, '90	2·81	Weather—seasonable. Sowings of paddy and *bhadoi* crops still in progress, but nearing completion. Prospects good. Prices stationary.
Chota Nagpore Dtn. 42	Lohardugga ,, 12, '90 Palamow (up to 9th July)	1·78 2·21	Weather—warm and cloudy. Rain daily during the week. Sowing of winter rice continues. Prospect of *bhadoi* good. Outturn of mango at Palamow estimated at 12 annas, and at head-quarters 16 annas.
Chota Nagpore Dtn. 43	Singbhoom July 12, '90	2·80	Weather—favourable All crops doing well.
Chota Nagpore Dtn. 44	Manbhoom ,, 12, '90 Govindpore ...	1·38 1·56	Weather—seasonable. Paddy sowing is being carried on vigorously. The late heavy rain has done some harm to the *bhadoi* crops. A break for a few days is desirable.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 15th July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 6th to 12th July 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
July	6th	139·7	1·1	29·537	81·8	85·4	9·7	75·7	78·8	0·948	77·6	87	SSW and calm ...	62	0·09	Chiefly cloudy, o, d.
,,	7th	146·1	3·5	·514	82·8	85·5	9·1	76·4	78·3	·916	76·6	83	SSW and SW ...	153	Nil	Chiefly cloudy, o.
,,	8th	146·8	3·2	·527	82·1	86·8	10·1	76·7	78·2	·916	76·6	84	SW by S and SSW	156	0·05	Chiefly cloudy, o, g, d.
,,	9th	153·5	2·7	·492	82·0	88·8	11·3	77·5	78·8	·941	77·4	86	SW by S and variable.	52	1·30	Chiefly cloudy, o, g, d, p. t.
,,	10th	137·3	3·6	·506	80·9	83·8	7·2	76·6	78·5	·944	77·5	90	SSW, SSE and calm	101	1·82	Chiefly cloudy, o, d, p.
,,	11th	131·7	0·4	·537	80·4	83·8	8·2	75·6	78·1	·933	77·1	90	SE by S, SW and SSW.	108	0·28	Chiefly cloudy, o, g, d, p.
,,	12th	150·7	6·5	·521	83·4	88·5	11·2	77·3	78·7	·919	76·7	80	SSW and SW ...	88	Nil	Partially cloudy.

	Inches.
The mean pressure of the seven days	29·519
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·551
	Hours.
The total number of hours of bright sunshine	21·0
The maximum possible number of hours of sunshine	93·9
	°
The mean temperature of the seven days	81·8
The average temperature of the corresponding period for 24 years, S.-G.'s Office	84·0
The extreme variation of temperature	13·2
The maximum temperature	88·8
	Miles.
The highest velocity of the wind in one hour	13
	lbs.
The highest pressure of wind on one square foot ... ... Approximately	2
	%
The mean relative humidity	86
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	·85
	Inches.
The total fall of rain from 6th to 12th July 1890	3·54
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	2·17
The total fall from 1st January to 12th July 1890	26·58
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	26·22

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables compputed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; d, drizzling rain; g, gloomy; p, passing temporary showers; t, thunder.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 14th July 1890.

Meteorological Report of the Provin

Meteorological Division.	District.	Representative stations.	STATION OBSERVATIONS.														
			Air Pressure.					Temperature.						Humidity.		Cloud.	
			Highest, 9 A.M., barometer reading of month.	Lowest, 9 A.M., barometer reading of month.	Mean, 9 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 9 A.M., humidity.	Variation from normal mean.	Mean amount, 9 A.M.	Variation from normal mean, 9 A.M.
Orissa.	Pooree	Pooree	29·714	29·400	29·594	29·606		94·2	75·1	90·0	81·5	85·8		87		6·6	
		Gopalpore	29·697	29·462	29·588	29·609	+·015	91·2	78·3	88·1	82·1	85·1	+0·8	82		7·4	
		False Point	29·700	29·394	29·589	29·610	—·008	94·0	78·1	89·3	79·9	84·6	—1·0	81	—5	7·4	+0·2
	Cuttack	Cuttack	29·658	29·348	29·534	29·615	+·009	103·4	76·8	93·7	79·7	86·7	—1·5	77	+3	7·1	+0·7
	Balasore	Balasore	29·680	29·383	29·552	29·611	+·013	96·5	73·8	90·9	77·8	84·3	—1·5	86	—	3·8	—
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs	Saugor Island	29·710	29·432	29·586	29·612	+·005	93·2	75·0	90·3	81·7	86·0	—0·4	84	—3	8·0	+1
	Midnapore	Midnapore	29·577	29·317	29·450	29·599	—·001	100·5	72·2	92·7	78·5	85·6	—1·9	80	—	3·9	—
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	29·714	29·431	29·582	29·604	+·008	95·5	71·2	90·0	78·2	84·1	—1·0	85	+2	7·0	—0·1
	Burdwan	Burdwan	29·609	29·288	29·486	29·586	—·012	99·7	74·4	92·7	78·0	85·8	—1·1	83	+3	8·9	+1·7
	Bankoora	Bankoora	29·390	29·112	29·273	29·371	—·004	100·6	72·1	95·9	81·0	88·5	—	84	—	6·4	—
	West Burdwan and Beerbhoom	Ranigunge	29·391	29·091	29·262	29·593	+·004	104·5	75·0*	94·0	78·0*	86·0*	—1·5	85	—	5·0	—
	Moorshedabad	Berhampore	29·635	29·299	29·532	29·589	—·014	100·7	73·3	92·9	78·2	85·6	0	89	+7	8·5	+0·1
	Nuddea	Krishnagore	29·677	29·327	29·551	29·612	+·004	97·3	71·8	91·8	77·0	84·9	—1·2	83	—	7·1	—
	Jessore and Khoolna	Jessore	29·695	29·299	29·580	29·614	—·008	99·8	74·9	91·6	79·0	85·3	0	89	+2	8·0	—0·1
East Bengal.	Chittagong	Chittagong	29·718	29·464	29·595	29·084	—·003	99·1	72·5	86·8	77·0	81·9	+0·6	85	—5	6·6	—1·4
	Chittagong Hill Tracts	Demagri						Observations not received.									
	Backergunge	Barrisal	29·752	29·490	29·637	29·639	+·004	91·8	74·4	87·8	78·6	83·2	+0·4	87	—	6·6	—
	Noakholly	Noakholly	29·760	29·508	29·632	29·676	+·016	89·5	69·8	86·0	77·7	81·9	+0·2	88	—	3·6	—
	Furreedpore	Furreedpore	29·728	29·459	29·600	29·639	+·009	94·5	73·9	88·5	78·2	83·4	+0·5	90	—	5·8	—
	Dacca	Dacca	29·742	29·462	29·613	29·636	—·001	92·6	70·2	88·7	77·0	82·9	—0·8	90	+1	8·5	+0·4
	Tipperah	Commillah	29·739	29·473	29·624	29·660	+·007	92·3	71·3	87·8	77·2	82·3	—0·1	87	—	6·0	—
	Mymensingh	Mymensingh	29·706	29·439	29·583	29·641	—·004	90·7	71·1	86·3	76·7	81·5	—0·9	93	—	8·1	—
North Bengal.	Bogra	Bogra	29·661	29·381	29·544	29·607	+·008	93·3	68·6	89·1	76·8	82·9	—0·7	88	—	7·5	—
	Pubna	Serajgunge	29·697	29·414	29·572	29·619	—·008	93·1	70·7	88·4	76·8	82·6	—0·4	91	—	8·1	—
	Rajshahye	Rampore Beauleah.	29·648	29·310	29·531	29·601	+·009	97·8	73·2	90·6	78·1	84·4	+0·8	86	—	3·4	—
	Maldah	Maldah	29·649	29·323	29·515	29·596	+·002	96·9	73·3	91·2	77·9‡	84·6‡	—	89	—	5·4	—
	Dinagepore	Dinagepore	29·640	29·3.2	29·485	29·606	—·027	93·1	69·6	87·6	77·6	82·6	—0·3	91	—	7·60	—
	Rungpore	Rungpore	29·673	29·396	29·519	29·644	—·009	92·8	70·7	87·0	76·8	81·9	—0·5	89	—	5·8	—
	Julpigoree and Cooch Behar.	Julpigoree	29·469	29·199	29·344	29·633	—·017	90·4	70·1	85·0	73·7	79·4	—1·3	94	—	5·0	—
North Behar.	Darjeeling	Darjeeling	22·928	22·741	22·855	—	—·030	67·0	53·6	64·1†	56·0§	60·1‖	+0·1	97	+4	9·3	+0·3
	Purneah and North Bhagulpore.	Purneah	29·587	29·218	29·468	29·595	—·008	93·7	70·4	88·4	76·7	82·6	—2·2	89	+3	7·0	+0·4
	Mozufferpore	Mozufferpore	29·470	29·272	29·390	29·570	—	102·4	73·2	93·9	78·5	86·2	—	85	—	4·4	—
	Durbhunga	Durbhunga	29·523	29·246	29·425	29·591	—·006	99·4	?	92·3	?	?	?	86	+6	5·9	+0·1
	Chumparun	Motihari	29·455	29·214	29·363	29·590	+·007	98·2	71·5	91·6	76·8	84·2	—1·5	84	—	7·4	—
	Sarun	Chupra	29·463	29·244	29·369	29·561	—0·33	104·3	74·6	94·7	78·9	86·8	—1·3	81	—	4·1	—
South Behar.	Shahabad	Dehree	29·826	29·574	29·229	29·573	+·004	110·4	70·6	98·0	80·7	89·4	+1·3	72	—	4·6	—
		Buxar	29·416	29·176	29·317	29·558	—·017	107·9	74·3	95·6	79·5	87·6	—1·6	76	—	6·5	—
		Arrah	29·445	29·240	29·360	29·554	—·013	107·9	76·6	96·5	79·9	88·2	—0·9	78	—	6·3	—
	Gya	Gya	29·290	29·095	29·197	29·572	0	110·6	73·8	98·8	81·8	90·3	+0·6	72	+6	6·2	—0·1
	Patna	Bankipore	29·456	29·244	29·377	29·560	—·024	104·5	74·7	95·5	79·0	87·2	—1·4	80	+7	6·2	0
	South Bhagulpore and Monghyr.	Bhagulpore	29·522	29·188	29·408	29·565	—·018	100·8	76·0	91·2	78·6	84·9	—0·4	85	—	7·4	—
	Sonthal Pergunnahs	Naya Doomka	29·221	28·880	29·061	29·574	—·003	102·7	71·8	92·3	78·4	85·4	—1·2	81	—	4·5	—
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·714	27·456	27·599	29·583	—·006	103·5	70·2	91·1	75·6	83·4	—1·0	75	+7	8·2	+1·5
	Lohardugga Manbhoom	Ranchee	27·601	27·324	27·461	29·585	—·006	101·0	70·9	89·1	75·6	81·4	—2·1	76	—	7·7	—
	Singbhoom	Chyebassa	28·853	28·672	28·826	29·585	+·016	105·3	74·7	94·7	79·0	86·8	—2·0	74	—	6·8	—
Assam	Assam	Sibsagar	29·460	29·258	29·353	29·586	+·005	93·6	71·2	88·1	76·2	82·2	—1·1	93	+7	10·2	+1·4
		Dhubri	29·656	29·381	29·522	29·589	—·006	90·2	70·3	82·6	75·0	78·9	—2·9	92	+5	9·5	+1·5
		Silchar	29·661	29·435	29·580	29·646	0	93·4	73·6	84·9	76·7	80·4	+0·5	90	+6	8·3	+0·4

* Mean of 26 days.
† " " 27 "
‡ " " 28 "
§ " " 29 "

gal for the month of June 1890.

DISTRICT OBSERVATIONS.										Representative station.	District.	Meteorological Division.
Rainfall.												
Of month.					Since 15th May 1890.							
District.	Normal mean.	Variation from mean.	Number of rainy days.	Normal number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.			
0·99	8·42	+1·57	16·0	11·4	12·09	10·13	+1·96	20·8	14·5	Pooree Gopalpore False Point	Pooree	Orissa.
9·29	9·53	—0·23	14·6	13·1	12·38	11·50	+0·79	20·2	16·2	Cuttack	Cuttack	
12·80	8·40	+4·40	15·2	12·0	17·03	10·97	+6·06	24·0	16·2	Balasore	Balasore	
9·91	9·81	+0·10	15·7	14·1	16·88	12·06	+4·82	24·7	18·2	Saugor Island	South-West Midnapore and South 24-Pergunnahs.	South-West Bengal.
14·23	9·44	+4·79	17·3	12·5	20·43	11·57	+8·86	25·3	16·5	Midnapore	Midnapore	
14·64	9·86	+4·78	16·4	15·4	19·28	12·40	+6·79	23·8	20·3	Calcutta	24-Pergunnahs, Howrah, and Hooghly.	
20·29	8·88	+11·41	18·7	13·5	23·12	11·50	+11·62	24·0	17·8	Burdwan	Burdwan	
14·62	9·98	+4·64	16·3	14·0	18·67	12·69	+6·58	22·5	18·1	Bankoora	Bankoora	
17·22	10·07	+7·15	17·3	14·3	18·99	12·07	+6·92	22·1	18·7	Ranigunge	West Burdwan and Beerbhoom.	
11·72	9·13	+2·59	13·8	13·5	14·30	12·28	+2·02	17·8	18·3	Berhampore	Moorshedabad	
12·21	9·72	+2·49	16·8	14·6	16·00	13·23	+3·77	23·6	19·8	Krishnagore	Nuddea	
14·65	12·32	+2·33	17·8	16·5	19·31	15·69	+3·62	24·3	22·0	Jessore	Jessore and Khoolna	
25·29	29·63	—4·34	18·5	21·6	29·78	34·91	—5·13	26·0	27·5	Chittagong	Chittagong	East Bengal.
14·56	19·40	—4·84	19·0	21·6	20·65	23·66	—3·01	26·5	28·0	Demagri	Chittagong Hill Tracts	
16·29	19·20	—2·91	19·5	20·4	22·36	23·09	—0·73	26·5	26·6	Barrisal	Backergunge	
19·79	27·32	—7·53	19·0	20·0	27·80	32·09	—4·29	27·0	26·4	Noakholly	Noakholly	
9·07	12·55	—3·45	13·7	17·5	12·61	16·89	—4·28	22·0	23·3	Furreedpore	Furreedpore	
13·29	13·29	0	18·7	18·4	21·96	17·34	+4·62	27·5	24·4	Dacca	Dacca	
14·70	16·45	—1·75	17·3	19·0	20·05	20·70	—0·65	25·3	25·4	Commillah	Tipperah	
19·78	17·48	+2·30	20·2	18·2	27·34	22·45	+4·89	28·2	24·7	Mymensingh	Mymensingh	
16·34	12·77	+3·57	17·3	15·5	20·72	17·37	+3·35	24·8	21·2	Bogra	Bogra	North Bengal.
10·50	11·15	—0·65	16·5	16·4	10·66	14·95	+1·71	23·5	22·0	Serajgunge	Pubna	
18·07	11·09	+6·98	18·0	14·1	22·77	11·60	+8·17	23·3	19·1	Rampore Beauleah.	Rajshahye	
11·26	11·86	—0·60	19·0	15·4	13·68	14·65	—0·97	24·0	19·4	Maldah	Maldah	
16·53	13·52	+3·01	17·4	14·8	20·01	17·69	+2·32	23·0	19·3	Dinagepore	Dinagepore	
28·01	21·30	+6·71	23·5	17·2	32·43	28·70	+3·73	32·5	23·9	Rungpore	Rungpore	
44·13	31·08	+13·05	26·6	22·0	47·08	39·83	+7·85	37·2	30·7	Julpigoree	Julpigoree and Cooch Behar.	
32·39	28·42	+3·97	29·5	22·8	36·82	35·20	+1·62	40·0	31·8	Darjeeling	Darjeeling Hill Tracts.	North Behar.
16·25	11·50	+4·75	17·2	12·1	18·45	14·55	+3·89	22·0	15·3	Purneah	Purneah and North Bhagulpore.	
8·36	7·43	+0·94	14·0	8·9	10·14	8·78	+1·36	17·0	11·0	Mozufferpore	Mozufferpore	
10·97	8·03	+2·94	15·0	9·9	12·09	9·39	+2·70	18·0	11·0	Durbhunga	Durbhunga	
12·65	8·19	+4·46	13·5	9·5	16·37	9·54	+6·83	17·5	11·8	Motihari	Chumparun	
10·53	6·42	+4·11	13·0	8·8	12·20	7·54	+4·66	14·7	10·4	Chupra	Sarun	
10·32	5·01	+5·31	13·2	8·6	10·91	5·87	+5·04	14·4	10·2	Dehree Buxar Arrah	Shahabad	South Behar.
13·15	5·63	+7·52	12·5	8·3	14·09	6·99	+7·10	14·3	10·2	Gya	Gya	
18·46	6·24	+2·22	11·3	9·1	9·76	7·69	+2·07	13·1	11·1	Bankipore	Patna	
12·64	6·95	+5·69	14·4	10·6	14·81	8·57	+6·24	13·0	12·8	Bhagulpore	South Bhagulpore and Monghyr.	
15·60	8·96	+6·65	15·7	13·2	17·97	11·57	+6·60	20·7	16·5	Naya Doomka	Sonthal Pergunnahs	
11·53	8·08	+3·45	14·3	13·6	12·17	9·04	+3·53	17·3	15·6	Hazaribagh	Hazaribagh	Chutia Nagpur.
7·87 12·35	7·46 8·08	+0·39 +4·28	13·0 15·5	12·7 14·4	9·23 13·85	9·22 9·74	0 +4·11	17·3 19·5	16·1 18·0	Ranchee	Lohardugga Manbhoom	
9·04	8·30	+0·74	15·0	15·8	12·13	10·37	+1·76	23·0	20·7	Chyebassa	Singbhoom	
										Sibsagar Dhubri Silchar	Assam	Assam.

Table of Rainfall recorded at Station ... ngal in June 1890.

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	0·61	...	...	...	...	...	...	3·10	0·14	...	0·08	0·15	1·75	1·92
		Khurdah ...	...	...	...	...	0·29	0·03	0·55	0·02	...	0·40	0·11	...	...	3·88	...	1·38	0·09	0·07	1·41	1·96
		Banpur ...	...	0·17	...	0·16	...	0·55	0·03	...	...	...	...	...	0·02	...	0·13	...	0·26	1·76	1·11	...
		False Point ...	...	...	...	...	...	...	2·98	...	...	0·04	0·05	...	...	0·94	2·54	0·43	0·09	0·02	0·07	0·51
		Gop ...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·90	...	...	...	...	0·90	0·51
		Satpara ...	...	...	...	...	...	...	...	...	...	0·55	...	...	0·15	...	...	0·30	...	2·50	1·50	...
		Pipli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack ...	Jagatsingpore	...	...	...	...	...	1·93	...	...	0·10	...	...	...	0·94	...	1·10	1·00	0·30	0·99	0·37	0·4[illegible]
		Banki ...	...	...	...	...	...	0·03	0·70	0·02	...	0·59	...	...	...	0·55	0·10	2·60	...	0·37	0·77	1·9[illegible]
		Cuttack ...	...	...	0·57	...	...	...	0·20	3·50	...	0·16	...	...	...	0·23	4·75	0·12	...	0·36	0·61	0·2[illegible]
		Kendrapara ...	...	...	...	...	...	...	1·83	...	...	0·13	0·22	...	...	1·10	0·05	0·37	...	...	0·09	0·2[illegible]
		Jajpore ...	...	0·04	...	...	...	...	0·10	...	...	1·08	...	...	...	3·55	0·44	0·62	...	0·08	...	0·17
		Dharmsalla ...	0·20	0·10	...	...	...	0·70	0·20	...	1·30	...	...	...	4·90	0·57	0·38	...	...	0·35	0·13	0·40
		Salipore ...	...	...	0·60	...	...	...	0·23	1·56	...	...	0·55	...	...	1·90	0·10	1·50	...	0·50	0·60	0·20
	Balasore ...	Chandbali ...	...	...	...	...	...	...	0·32	...	...	1·21	0·39	...	1·21	...	1·00	0·90	...	...	0·20	0·80
		Bhuddruck ...	...	...	...	...	...	...	0·50	0·09	...	1·30	...	...	...	1·45	2·90	0·50	0·20	0·02	0·70	0·8[illegible]
		Sorah ...	...	...	...	...	...	0·15	...	...	1·40	...	0·70	...	5·00	...	0·10	...	...	0·80	...	1·40
		Balasore ...	...	0·10	...	...	1·80	...	...	...	...	1·60	...	1·27	...	0·63	...	0·14	...	...	1·15	0·0[illegible]
		Jellasore ...	...	...	...	...	...	0·10	...	...	...	1·65	...	...	1·80	...	...	0·50	0·21	...	0·50	0·10
		Baripodah ...	0·03	...	...	0·20	1·17	...	...	...	0·21	...	...	...	0·50	0·76	1·00	...	...	1·37	0·36	0·40
SOUTH-WEST BENGAL.	Midnapore ..	Contai ...	...	...	...	...	0·17	0·12	...	1·13	...	0·53	...	0·32	...	0·39	...	0·82	0·14	0·13	0·35	0·3[illegible]
		Saugor Island	...	...	...	...	...	1·27	...	...	...	0·21	...	0·03	...	0·15	0·14	...	0·12	0·17	0·65	1·1[illegible]
		Tumlook ...	...	0·10	...	...	0·10	0·60	...	...	...	0·10	...	0·20	...	3·40	...	...	0·10	2·10	0·50	1·10
		Midnap re ...	...	...	...	...	0·40	0·10	...	...	...	1·48	...	...	...	0·38	0·17	...	0·27	...	0·69	0·58
		Ghatal ...	...	0·10	...	...	...	0·44	...	...	...	1·20	...	...	...	1·31	0·10	0·09	...	0·02	0·09	0·57
		Kukrahaty ...	...	...	...	...	...	0·98	...	...	...	...	...	0·09	...	0·19	0·05	...	0·45	...	0·24	0·61
		Garbeta ...	...	...	...	...	0·42	0·07	...	...	...	1·34	...	...	0·58	0·10	...	0·40	...	...	0·28	1·16
	24-Pergunnahs	Diamond Harbour.	...	...	...	...	...	1·05	...	...	...	...	...	...	...	...	0·18	0·12	0·72	0·04	0·25	2·60
		Canning Town	...	...	...	...	0·05	1·43	...	...	0·17	1·00	1·10	0·07	0·02	...	0·29	0·10	0·28	...	0·52	0·37
		Alipore Jail ...	...	0·04	...	...	0·20	2·48	...	...	...	0·02	1·07	0·18	...	0·44	0·03	0·40	0·04	0·26	0·23	0·53
		Barrackpore...	...	...	...	...	0·05	1·19	...	...	...	...	0·67	...	...	0·61	...	...	0·49	0·35	0·06	0·44
		Dum-Dum ...	...	...	...	...	...	1·34	0·06	...	...	...	0·07	...	...	4·06	0·10	...	...	0·13	0·25	0·65
		Baraset ...	...	...	...	...	0·18	1·40	...	...	...	...	0·42	...	...	0·26	...	0·18	...	...	...	0·80
		Busserhat ...	...	0·46	...	...	...	2·18	...	0·34	0·06	1·08	0·14	0·23	0·55	1·41	...	0·11	...	0·26	0·35	0·14
	Howrah ...	Howrah ...	...	...	...	...	0·19	1·80	...	...	...	...	0·03	0·36	...	1·70	...	0·69	0·23	0·08	...	0·59
		Mohesreka (*Oolooberiah*).	...	0·59	...	...	...	3·75	...	...	...	0·26	0·39	1·39	...	4·45	0·08	0·23	0·38	0·11	0·77	1·43
	Hooghly ...	Serampore ...	...	0·01	...	...	...	1·52	...	...	...	...	0·94	0·23	...	0·51	0·02	...	0·23	0·45	...	0·52
		Hooghly ...	...	...	...	...	0·31	2·21	...	...	...	...	0·87	...	...	0·23	...	...	...	0·52	0·18	0·29
		Jehanabad ...	...	0·19	...	...	0·04	0·92	...	...	...	0·59	...	...	...	0·08	...	0·38	0·04	...	0·75	0·17
	Burdwan ...	Culna ..	...	0·40	...	...	1·18	1·54	...	...	0·85	0·25	...	...	...	0·92	...	0·70	...	...	0·20	0·22
		Burdwan ...	...	0·16	...	...	0·20	0·70	...	...	...	2·40	...	1·10	0·38	0·07	0·05	0·14	...	...	0·19	0·15
		Cutwa ...	0·04	...	0·03	...	0·18	0·10	...	...	1·05	...	0·87	0·50	3·03	...	...	...	0·28	...	...	0·36
		Ranee-gunge ..	...	0·23	...	...	...	0·40	0·02	...	...	1·19	...	0·52	0·05	0·05	...	...	0·04	...	0·02	0·50
		Mankur ...	...	...	...	...	...	0·80	...	...	...	...	...	0·29	0·58	...	...	...	...	0·18	...	1·42
	Bankoora ...	Bankoora ...	...	0·33	...	...	...	1·12	...	...	...	0·68	...	0·07	1·00	0·30	...	0·12	...	0·11	0·06	0·63
		Bishenpore ...	...	...	...	...	...	1·42	...	...	0·14	1·03	...	...	0·71	0·36	...	0·21	0·11	...	0·67	0·64
		Maliara ...	...	0·38	...	...	...	1·19	...	...	...	0·80	...	1·03	2·20	0·06	...	0·72	...	...	...	0·60
		Khatra ...	...	...	...	...	0·64	0·10	...	...	...	...	...	0·55	...	0·80	...	0·20	...	...	...	0·12
		Indas ...	...	...	...	...	0·12	1·54	...	...	...	0·64	...	...	...	0·07	...	0·53	0·10	...	0·10	0·68
		Kotalpore ...	...	...	...	...	0·75	1·62	...	...	...	0·41	...	...	...	...	0·11	1·02	0·39	...	0·76	0·51
		Anda ...	...	...	...	...	[illegible]	0·90	...	...	...	0·40	...	0·21	0·05	...	...	...	0·50	...	0·50	0·48
		Gangajalghati	...	2·08	...	...	...	0·68	...	...	...	1·59	...	1·12	8·56	0·17	...	0·61	...	...	...	0·76
		Raipore ...	...	...	...	...	0·94	...	...	...	...	...	...	0·67	...	0·19	...	...	0·25	...	0·21	0·29
		Sonamukhi ...	...	...	...	...	...	0·78	...	...	...	0·24	...	...	...	0·40	...	0·09	0·08	...	0·80	0·78
	Beerbhoom ...	Bh. Soory ...	...	0·43	...	...	0·58	1·01	...	...	...	0·61	...	0·41	0·21	0·03	...	...	...	...	...	1·18
		Hetampore ...	...	2·15	...	0·10	0·64	...	...	0·12	0·24	...	0·21	1·30	0·10	...	...	...	...	...	1·25	0·21
		Rampore Haut	...	1·80	...	...	0·21	...	...	0·52	0·34	...	0·63	0·40	0·70	...	...	...	...	...	1·20	0·50
		Bolpur ...	...	1·60	...	...	0·75	...	...	...	...	1·50	...	0·11	1·04	0·04	...	...	...	...	0·48	...
		Murarai ...	0·20	...	...	...	0·20	...	...	0·60	0·50	...	0·16	1·00	0·60	...	...	...	...	...	1·17	0·03
	Nuddea ...	Ranaghat ...	...	0·03	...	...	0·06	0·88	...	...	...	0·30	3·06	...	...	0·00	...	0·28	...	0·15	...	0·03
		Kishnaghur ...	...	0·11	...	...	0·26	0·85	...	...	0·06	0·12	0·03	...	...	0·41	...	0·06	...	...	0·34	0·06
		Chooadanga ..	...	...	0·63	0·35	0·03	0·24	...	...	0·17	1·64	0·32	...	...	0·33	...	0·35	...	...	0·25	0·19
		Meherpore ...	...	...	...	0·20	...	0·77	...	...	1·15	1·70	...	...	0·10	2·35	...	0·46	...	...	0·05	...
		Kooshtea ...	...	...	...	...	...	0·13	...	...	1·18	3·03	0·11	0·14	0·17	0·75	...	...	...	0·23	0·29	0·33
	Khoolna ...	Satkhira ...	...	0·05	...	...	0·51	0·64	0·01	0·53	...	0·51	0·04	1·06	0·45	0·03	0·01	...	0·18	...	0·19	0·09
		Bagirhat ...	...	0·15	0·48	...	0·30	0·51	...	...	0·10	0·57	0·33	...	0·28	0·12	...	...	0·15	...	0·50	0·98
		Khoolna ...	...	...	...	...	0·04	0·41	0·03	...	...	0·93	...	1·18	0·10	...	...	...	...	2·09	...	0·83
		Nakipur ...	...	...	...	...	1·15	1·18	...	...	...	0·65	1·24	...	...	0·35	1·13	...	0·17	0·20	0·21	0·38
		Rampal ...	0·08	1·56	...	0·07	...	0·09	...	0·26	...	1·21	...	...	0·43	0·51	...	...	...	0·30	0·12	0·53
	Jessore ...	Narail ...	...	...	...	0·43	...	0·21	...	0·83	...	1·70	...	...	0·18	...	...	...	0·06	0·06	0·15	0·21
		Jessore ...	...	0·03	0·02	...	0·08	0·64	...	...	0·04	1·60	0·11	0·06	0·02	0·90	...	0·04	0·10	...	0·80	0·06
		Jhenidah ...	...	...	...	...	...	0·26	...	...	0·52	0·92	1·65	...	...	...	...	0·74	...	0·18	0·20	0·12
		Magoorah ...	...	...	...	0·03	0·04	0·48	...	0·13	2·00	1·86	0·20	...	0·13	0·80	0·21	0·80	...	...	0·37	0·15
		Bongoug ...	...	...	...	...	0·32	0·21	...	...	...	0·88	0·65	...	...	0·98	0·20	0·25	...	0·10	0·45	...
	Moorshedabad	Kandi ...	...	...	...	0·12	...	0·27	...	...	...	1·97	...	...	0·11	1·95	...	...	0·08	...	...	0·60
		Berhampore...	...	2·06	...	...	...	...	...	...	0·09	0·75	...	...	0·11	1·34	...	...	...	...	...	0·36
		Lalbagh ...	...	...	...	...	...	...	...	...	1·03	1·60	...	...	...	1·55	...	...	...	...	...	0·60
		Azimgunge ...	...	...	...	...	...	...	...	...	1·36	0·75	...	...	...	1·90	...	...	0·85	...	...	0·65
		Jungipore ...	...	0·97	...	0·06	...	0·05	...	...	0·09	1·98	...	0·57	...	0·05	...	...	0·75	...	...	0·48
		Lalgola ...	...	1·30	...	...	...	0·15	...	...	2·15	0·55	...	...	0·15	0·45	...	...	0·14	...	...	0·55
		Jiagunge ...	...	...	...	...	...	...	...	...	1·35	0·73	...	0·35	...	1·02	...	...	...	...	...	0·64
		Akhrigunj ...	...	0·05	...	0·23	...	0·50	...	...	3·42	0·41	...	0·06	...	0·50	...	...	...	...	...	0·11
		Patkabari ...	...	...	...	...	0·30	...	...	0·10	1·20	...	1·10	...	1·80	...	...	...	...	0·60	...	...
EAST BENGAL	Chittagong ...	Cox's Bazar ...	1·50	...	...	...	...	...	...	0·90	0·60	0·40	0·20	0·22	1·53	2·35	0·37	0·04	0·11	...	0·71	0·07
		Chittagong ...	1·53	...	...	...	...	...	...	...	...	0·45	0·24	...	0·83	0·04	...	...	0·48	...	...	0·23
		Kutubdia ...	0·20	...	...	...	0·04	...	...	...	0·44	0·29	0·11	0·34	0·33	0·03	0·08	...	0·06	...	0·15	0·14
		Satkanya ...	0·31	...	...	...	...	...	...	...	[illegible]	0·50	0·50	0·20	0·01	0·40	0·25	0·14	...	...	0·10	0·35
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	...	0·36	0·16	0·60	0·27	0·40	0·22	0·02	0·61	0·27	0·35	1·10	...	...	0·54	0·06
		Ruma ...	0·61	...	...	...	...	...	...	...	0·21	0·07	0·59	...	0·15	0·44	0·14	...	...	0·13	...	...

22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th June 1890.	Average rainfall from 1st January up to 30th June.	Station.	District.	Meteorological division.
0·68	0·04	0·32	...	...	...	...	0·20	0·88	18	11·5	9·29	7·56	3·10	12·53	13·01	Pooree ...	Pooree ...	ORISSA.
...	0·38	6·02	...	...	...	0·30	0·29	1·70	18	13·8	13·74	9·10	3·88	22·01	14·91	Khurdah.		
...	0·61	...	...	0·88	0·10	0·00	0·04	0·60	15	9·1	6·52	7·11	1·76	12·20	11·71	Banpur.		
0·19	0·26	0·08	0·02	...	0·11	...	1·37	0·28	18	11·3	10·40	8·92	2·98	13·49	17·36	False Point.		
										?		?			?	*Gop.*		
...	...	0·45	...	...	0·05	0·05	0·20	0·10	10	?	5·85	?	2·50		?	*Satpara.*		
										?		?			?	*Pipli.*		
0·20	...	...	...	...	...	...	0·10	2·10	12	8·6	9·48	7·54	2·10	12·75	12·79	Jagatsingpore	Cuttack.	
...	0·14	...	...	...	0·33	1·25	0·87	0·16	16	16·0	11·40	10·28	2·60	18·79	15·41	Banki.		
...	0·15	0·18	...	...	0·36	0·20	0·25	...	16	15·6	12·24	10·54	4·75	18·47	17·38	Cuttack.		
0·02	0·18	0·05	...	...	0·05	0·03	0·22	0·05	16	9·6	4·72	8·52	1·83	9·04	15·56	Kendrapara.		
...	1·10	0·32	...	0·32	...	...	0·43	...	13	10·8	8·62	9·52	3·55	10·82	18·55	Jajpore.		
1·00	0·55	...	0·55	...	...	0·25	...	1·82	16	?	13·40	?	4·90	20·25	?	*Dharmsala.*		
0·03	0·21	...	...	0·10	0·09	0·72	...	3·20	17	?	12·44	?	3·20	15·66	?	*Salipore.*		
...	0·74	0·16	...	...	0·22	...	1·21	0·23	14	10·5	8·81	7·33	1·21	18·92	15·83	Chandbali	Balasore.	
...	0·18	0·95	0·30	0·03	...	0·12	3·65	...	17	11·3	14·36	8·68	3·65	22·98	18·94	Bhuddruck.		
0·70	...	...	...	...	0·22	0·40	0·70	0·31	12	11·2	11·88	6·89	5·00	19·44	16·13	Sorah.		
...	0·84	0·28	...	0·03	...	0·01	5·36	0·29	15	13·2	14·76	9·87	5·36	25·23	21·54	Balasore.		
0·60	1·15	0·70	0·05	...	...	...	0·36	...	13	10·4	12·22	7·71	4·50	23·07	15·49	Jellasore.		
0·70	2·26	0·47	0·04	0·45	0·3[illegible]	2·45	0·61	0·76	20	15·4	14·77	10·55	2·45	21·67	19·00	Baripodah.		
0·60	1·00	0·26	0·05	...	...	...	0·26	...	17	12·0	10·18	10·32	3·56	22·64	19·11	Contai	Midnapore ...	SOUTH-WEST BENGAL.
0·85	2·34	0·99	0·10	0·10	...	...	0·27	...	16	14·3	9·80	10·86	2·34	16·41	19·50	Saugor Island		
1·50	1·70	0·60	0·10	0·20	...	...	0·10	...	17	10·6	12·70	8·92	3·40	23·10	18·67	Tumlook.		
7·14	2·55	0·66	0·58	0·97	0·48	0·06	0·27	0·06	18	13·2	17·50	9·52	7·14	24·88	15·45	Midnapore.		
3·52	2·46	0·18	0·26	0·12	0·36	...	1·05	...	17	13·8	12·48	9·79	3·52	19·18	19·76	Ghatal.		
0·93	1·13	0·46	0·23	0·09	...	...	0·34	0·25	15	?	7·16	?	1·13	13·68	?	*Kukrahaty.*		
1·08	1·85	0·22	0·38	1·36	...	...	...	...	14	?	11·06	7·80	1·85	19·64	17·09	*Garbeta.*		
1·34	1·42	0·18	0·34	0·06	...	...	...	0·20	14	15·9	9·76	9·35	2·60	17·61	20·42	Diamond Harbour.	24-Pergunnahs.	
2·36	1·32	0·76	2·54	...	...	...	0·10	1·85	19	?	14·59		2·54	19·54	?	*Canning Town.*		
3·04	2·03	1·37	0·63	0·07	...	...	...	0·04	20	16·5	13·93	9·79	3·04	21·03	20·76	Alipore Jail.		
1·70	3·35	0·83	0·03	1·55	...	...	0·10	...	15	13·7	11·82	8·89	3·35	19·20	19·31	Barrackpore.		
2·80	2·00	0·82	0·31	0·06	...	...	0·30	0·02	16	16·0	13·28	9·60	4·06	18·82	20·75	Dum-Dum.		
1·88	3·14	0·49	0·40	0·06	...	...	0·19	...	13	15·0	10·59	9·69	3·14	19·43	21·02	Baraset.		
...	3·25	1·01	2·50	0·08	...	...	...	...	18	15·1	14·25	10·69	3·25	27·40	22·85	Busserhat.		
3·25	1·36	0·80	0·36	0·13	...	...	0·17	0·41	17	17·4	13·44	10·67	3·25	18·33	21·51	Howrah ...	Howrah.	
3·75	2·10	0·62	0·19	0·25	...	...	0·11	1·40	20	14·8	24·86	8·64	4·15	31·34	19·27	Mohesreka (*Oolooberiah*)		
1·66	3·40	0·75	0·06	1·54	...	...	0·11	...	16	16·3	12·67	9·52	3·40	19·61	10·53	Serampore ...	Hooghly.	
3·47	3·95	2·68	0·09	0·13	...	...	...	...	13	14·6	15·47	10·39	3·95	[illegible]	22·34	Hooghly.		
2·02	8·40	0·08	1·27	0·22	...	...	0·85	...	16	14·2	16·04	9·29	8·40	24·12	19·08	Johanabad.		
0·65	8·20	0·70	0·89	0·13	0·52	...	0·25	...	17	11·4	18·07	8·36	8·20	24·13	18·46	Culna ...	Burdwan.	
1·30	7·24	0·63	0·75	0·83	1·12	2·45	0·70	0·02	21	15·7	21·02	9·37	7·24	26·15	19·06	Burdwan.		
4·62	0·55	1·15	0·45	1·51	0·95	1·11	...	...	18	13·4	21·78	9·90	5·00	27·76	19·97	Cutwa.		
2·25	8·05	2·65	0·07	0·17	...	0·64	0·50	0·24	19	14·1	17·89	8·43	8·05	22·11	14·95	Raneegunge.		
0·58	9·77	0·42	0·73	0·66	...	0·10	0·65	0·03	14	?	16·90	?	9·77	23·02	?	*Mankur.*		
0·30	3·72	2·01	0·16	0·50	...	0·09	0·54	0·01	19	15·3	12·16	9·68	3·72	19·02	17·57	Bankoora	Bankoora.	
1·36	4·00	0·94	0·83	0·47	...	...	1·32	...	16	13·7	15·44	10·50	4·00	24·18	19·42	Bishenpore.		
0·57	7·00	1·95	0·10	...	...	0·08	1·71	0·11	16	12·6	21·94	10·30	7·00	24·77	15·81	Maliara.		
0·40	1·20	1·31	0·24	0·39	...	...	1·67	0·06	14	14·5	8·95	11·19	1·67	13·47	17·45	Khatra.		
0·32	5·30	0·92	0·71	1·36	0·08	1·64	1·90	0·03	18	?	16·26	?	5·30	20·97	?	Indas.		
4·40	3·90	0·71	0·02	0·95	...	1·12	0·50	0·33	17	?	18·54	?	4·40	27·00	?	Kotalpore.		
2·60	0·40	1·55	0·52	...	...	0·60	0·70	...	15	?	12·51	?	2·60	16·71	?	Anda.		
0·72	4·12	3·97	...	...	...	...	3·27	0·30	14	?	23·18	?	4·12	27·84	?	Gangajalghati		
1·19	1·69	0·72	0·79	0·42	...	0·09	1·96	...	14	?	10·24	8·85	1·96	18·14	16·10	*Raipore.*		
0·31	6·07	1·79	0·52	...	...	...	2·01	0·17	14	?	14·25	?	6·07	18·36	?	*Sonamukhi.*		
0·85	5·84	3·06	0·26	0·11	0·03	...	1·07	0·14	17	15·7	16·36	10·10	5·84	19·31	16·39	Bh. Soory ...	Beerbhoom.	
6·80	2·35	0·19	0·80	0·04	...	0·44	0·64	...	18	13·4	17·62	10·92	6·80	21·79	17·26	Hetampore.		
3·55	3·25	1·74	0·91	...	...	1·15	...	...	15	14·1	17·00	9·35	3·25	20·48	16·42	Rampore Haut.		
1·02	5·31	1·08	0·75	0·04	...	...	...	1·66	14	?	16·59	?	5·31	21·91	?	*Bolpur.*		
1·05	0·15	1·10	...	1·70	...	0·25	1·20	...	10	?	10·21	?	1·70	15·67	?	*Murarai.*		
2·41	4·43	1·27	0·44	0·07	...	...	...	...	15	12·7	15·04	9·40	4·43	20·20	20·18	Ranaghat ...	Nuddea.	
0·97	8·17	1·06	0·09	0·11	0·39	...	...	0·10	18	15·1	14·31	9·52	8·17	21·18	21·12	Kishnaghar.		
1·75	0·55	1·15	0·29	0·20	...	...	0·19	1·00	19	14·0	10·17	8·96	1·75	17·67	22·94	Choodanga.		
0·08	0·30	3·00	0·98	...	...	...	0·58	0·05	15	14·4	11·07	9·36	3·00	16·87	[illegible]	Meherpore.		
0·17	1·00	1·28	0·31	0·04	...	...	...	0·29	17	16·9	9·58	10·56	3·03	21·58	23·99	Kooshtea.		
1·78	2·39	[illegible]	2·03	0·03	...	...	...	0·02	21	16·4	13·82	12·05	2·39	28·16	24·80	Satkhira	Khoolna	
4·50	1·42	4·30	3·10	2·15	...	...	...	0·15	19	16·2	20·84	12·73	4·50	30·77	26·51	Bagirhat.		
2·88	2·52	3·05	2·09	0·16	...	...	...	0·18	15	17·6	15·74	12·54	2·88	25·09	26·11	Khoolna.		
1·02	2·07	2·92	2·61	...	...	...	...	0·17	16	?	15·58	?	2·92	30·44	?	*Nakipur.*		
1·84	1·39	3·56	2·67	...	0·27	...	...	...	17	?	15·54	?	3·56	25·09	?	*Rampal.*		
1·22	2·90	9·85	0·31	0·01	...	2·02	...	...	16	16·9	[illegible]	10·82	3·85	29·75	24·38	Narail ...	Jessore.	
4·10	9·92	0·96	0·10	0·05	0·06	0·04	...	0·36	23	18·3	[illegible]	13·13	9·92	[illegible]	28·47	Jessore.		
0·80	2·68	0·85	0·82	...	...	...	...	...	14	10·4	10·54	12·45	2·68	17·19	25·91	Jheudah.		
0·90	2·33	0·82	0·27	...	0·02	0·52	...	0·16	20	17·9	11·88	11·65	2·33	23·15	27·25	Magoorah.		
0·63	4·50	0·95	0·15	...	...	...	...	...	14	12·6	10·52	9·62	4·50	19·00	21·23	Bongoug.		
0·60	2·50	0·53	2·10	0·62	...	0·31	0·54	0·18	14	14·7	19·40	9·38	2·50	17·32	17·66	Kandi ...	Moorshedabad.	
0·56	1·52	0·86	3·97	0·11	...	...	0·10	0·59	15	13·3	10·79	9·48	3·97	13·28	18·81	Berhampore.		
0·95	1·43	0·73	2·39	0·04	...	0·20	0·04	0·01	13	12·1	10·85	8·80	2·39	13·15	17·01	Lalbagh.		
1·35	1·19	2·30	1·75	...	0·85	0·20	...	...	12	13·6	13·80	8·90	2·30	19·42	17·13	Azimgunge.		
0·81	2·31	1·46	1·12	...	0·64	0·83	0·42	0·26	17	13·6	12·48	8·53	2·31	15·86	16·35	Jungipore.		
...	0·90	2·00	1·66	...	...	0·45	...	0·15	12	13·7	10·45	9·04	2·15	21·97	17·93	Lalgola.		
2·16	1·37	1·31	1·80	...	0·90	0·23	0·09	...	14	?	12·22	?	1·92	17·90	?	Jiagunge.		
0·24	1·14	1·67	2·35	0·05	0·11	...	...	0·24	16	?	12·03	?	3·42	17·73	?	*Akhrigunj.*		
2·50	2·20	0·80	0·80	0·20	...	1·00	0·10	...	14	?	13·60	?	2·30	18·44	?	*Patkabari.*		
3·46	4·24	2·85	0·72	1·22	1·35	0·02	1·32	...	22	22·4	34·10	33·09	9·35	47·83	49·08	Cox's Bazar ...	Chittagong ...	EAST BENGAL.
3·33	3·60	2·69	1·40	1·13	0·60	0·02	...	...	15	20·8	16·48	22·93	3·68	26·93	40·38	Chittagong.		
3·50	1·75	4·85	0·57	1·06	0·10	0·03	0·51	...	21	?	[illegible]	?	4·85	26·85	?	*Kutubdia.*		
1·00	3·00	3·00	0·80	0·73	0·80	0·60	0·48	...	20	?	[illegible]	?	3·00	22·32	?	*Satkanya.*		
1·12	2·30	1·40	0·98	2·70	...	0·45	0·18	...	21	22·5	14·11	18·02	2·70	31·87	36·56	Rangamati ...	Chittagong Hill Tracts.	
0·96	1·27	5·65	0·58	3·20	0·57	0·47	0·05	0·42	18	20·6	15·43	19·38	5·65	31·86	35·40	Ruma.		

Table of Rainfall recorded at Sta[tions] ... l in June 1890—*continued.*

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
EAST BENGAL —*concld.*	Backergunge...	Patuakhally ...	...	...	0·25	...	...	0·03	...	...	0·72	...	0·25	0·35	...	0·52	1·05	0·37	0·15	0·10
		Perozepore ...	0·11	...	...	...	0·44	0·03	...	...	0·50	0·51	1·07	0·67	...	2·33	...	0·09	0·65	0·31
		Burrisal ...	...	...	0·40	...	...	...	...	...	...	0·25	0·88	0·14	...	0·52	2·45	0·32	0·53	0·24
		Bhola ...	...	...	...	...	...	...	...	...	...	0·14	0·08	0·25	...	0·07	0·45	0·08	0·07	0·14
		Gournaddi ...	...	...	...	...	...	...	0·50	...	...				...	...	...	0·75	...	...
		Bamphal ...	0·06	...	...	...	...	...	...	0·15	...	0·33	0·27	0·77	...	0·72	0·05	...	...	...
	Noakholly ...	Noakholly ...	0·05	...	...	...	...	...	...	...	2·24	0·11	0·74	0·29	...	...	1·27	0·47	0·25	0·22
		Fenny ...	...	...	...	0·24	...	...	...	...	0·10	1·50	0·60	1·27	...	1·35	1·75	1·50	0·57	...
		Harishpore ...	...	...	...	...	...	...	...	...	1·75	1·20	3·10	2·40	0·40	1·89	1·09	...	0·35	...
		Ramganj ...	0·10	...	...	1·42	...	...	...	1·00	1·30	2·10	...	0·34	...	0·20	0·22	...	...	...
	Furreedpore...	Madaripore ...	...	...	...	...	...	0·08	...	...	0·21	...	...	0·12	0·13	...	...	...	...	...
		Furreedpore...	...	...	...	...	...	...	1·20	0·95	2·10	...	...	0·37	0·13	...	...	...	0·32	0·52
		Goalundo ...	0·52	...	...	0·05	...	0·06	...	...	0·17	3·65	...	0·15	0·69	...	...	...	0·11	...
	Dacca ...	Munshigunge	...	0·17	...	1·13	...	...	...	...	...	0·35	...	0·17	0·60	...	0·77	...	0·26	...
		Dacca ...	0·13	0·04	...	0·11	...	1·12	...	0·61	1·54	0·12	...	...	0·04	0·02	0·17	...	0·25	0·42
		Narainganj ...	...	...	...	0·04	...	0·62	...	0·42	0·06	0·28	...	0·34	1·41	0·07	...	...	1·54	...
		Manickgunge	0·26	...	...	0·40	...	1·07	...	1·00	0·75	2·45	...	...	0·25	...	...	0·10	0·10	0·15
		Joydebpore ...	0·25	...	...	1·01	...	0·29	...	1·21	0·66	2·71	...	0·25	0·11	1·15	0·03	0·35	0·04	0·03
	Hill Tipperah	Agartola ...	...	...	...	1·62	0·48	1·12	...	...	0·25	0·30	...	0·32	...	0·90	2·35	0·95	...	0·65
	Tipperah ...	Comilla ...	0·16	...	...	0·43	0·08	...	0·38	0·15	0·98	0·59	...	0·18	0·04	0·10	2·84	0·24	0·48	...
		Chandpore ...	...	...	1·27	...	...	...	...	0·80	...	...	...	0·90	1·30	...	2·00	...	...	1·36
		Brahmunberia	0·07	...	...	0·96	...	0·18	...	1·04	0·64	...	0·68	1·20	0·16	0·65	2·61	0·20	...	0·15
		Ramchandra-pore.	0·30	0·59	...	0·62	0·04	0·19	...	...	0·23	...	...	0·63	0·48	...	0·78	1·73	0·21	0·09
		Nasirnagar ...	...	...	0·70	...	0·50	1·30	...	0·90	0·20	0·95	0·85	...	...	0·58	0·90	0·30	...	0·55
		Daudkandi ...	...	0·21	...	0·91	...	0·10	...	...	...	...	1·21	0·20	0·43	...	0·81	...	...	...
		Kasba ...	...	...	2·40	...	...	...	0·06	...	...	...	1·25	2·60	2·40	1·50	0·26	...	1·18	...
		Laksham ...	...	...	...	1·50	...	...	...	...	1·35	...	...	...	1·50	...	...	0·72	...	...
	Mymensingh..	Kishoregunge	0·28	...	...	2·03	0·05	0·65	...	0·97	0·69	1·95	...	1·23	0·10	4·55	0·29	...	...	...
		Atia (*Tangail*)	0·33	0·11	...	0·09	...	...	...	...	0·27	2·77	...	0·39	...	0·23	...	...	...	...
		Mymensingh	0·27	0·38	...	2·08	0·02	0·38	...	0·75	1·75	1·83	...	1·50	...	0·28	0·40	0·06	0·15	0·19
		Jamalpore ...	1·08	0·10	...	1·70	...	0·87	...	1·35	0·20	0·05	...	1·39	...	...	...	1·37	...	0·95
		Netrokona ...	0·16	0·26	...	1·96	...	1·57	...	2·70	0·54	0·53	...	1·80	...	4·00	0·20	0·50	1·59	0·04
		Subornakhally	...	...	...	...	...	...	...	1·40	...	0·43	...	0·85	...	...	...	...	...	...
		Durgapore ...	1·20	...	...	3·70	1·00	2·40	0·10	0·99	1·20	1·41	0·25	2·30	...	1·60	...	...	1·20	...
		Sherpore Town	0·52	0·14	...	1·02	...	0·73	...	1·50	1·21	1·12	...	1·04	...	...	...	2·50	0·35	0·34
		Dewanganj ...	...	...	...	1·14	...	2·70	...	0·40	0·35	...	1·10	...	...	...	0·80	...	...	0·60
NORTH BENGAL	Pubna ...	Pubna ...	0·90	...	...	0·62	...	...	...	...	0·95	3·81	0·05	0·71	0·05	0·35	...	...	...	0·34
		Serajgunge ...	0·30	0·24	...	0·85	...	...	...	...	...	0·34	...	0·73	...	0·58	...	...	...	...
	Bogra ...	Sherpore ...	0·83	0·36	...	1·11	...	...	...	...	0·31	0·51	0·19	1·14	0·23	...	...	...	...	...
		Nowkhilla ...	0·96	0·07	...	1·02	...	...	...	0·66	0·33	0·52	...	0·80	...	...	...	...	...	...
		Bogra ...	0·92	...	...	1·00	...	...	...	1·30	0·12	0·58	0·06	0·32	0·03	0·07	...	...	...	...
		Panchbibi ...	1·25	...	...	1·60	0·65	...	...	0·18	1·84	1·35	...	3·38	0·10	2·30	...	...	0·40	0·55
	Rajshahye ...	Beauleah ...	0·01	0·28	...	...	...	...	...	...	3·28	1·25	...	0·14	0·01	0·68	...	...	...	...
		Nattore ...	1·40	...	...	0·40	...	1·03	...	...	0·85	1·12	0·04	1·50	...	0·83	...	...	0·10	0·05
		Naogaon ...	0·79	...	...	1·30	0·20	...	0·42	1·15	1·05	0·12	0·20	...	0·17	0·87	...	...	...	0·23
		Lalpore ...	...	0·18	...	...	...	...	...	1·12	0·75	...	0·37	...	0·70	...	...	...	...	...
		Manda ...	...	...	0·30	...	...	...	...	0·80	0·50	0·12	1·40	...	0·20	...	...	...	...	...
	Maldah ...	Maldah ...	...	0·03	...	...	...	...	0·01	...	4·07	0·57	...	0·04	...	...	...	...	0·60	0·08
		Chanchal ...	...	0·19	...	[illegible]	0·07	...	...	...	3·20	0·65	0·17	0·20	...	...	...	...	0·05	0·21
		Gajol ...	0·35	...	...	...	...	...	...	...	4·20	1·10	0·40	0·10	0·30	...	...	...	1·85	...
		Sibganj ...	1·30	...	...	...	...	0·02	...	...	1·87	1·07	...	1·75	...	...	...	...	0·40	...
	Dinagepore ...	Mohadebpore	0·43	...	...	1·65	...	...	...	0·04	0·98	1·04	0·00	0·11	...	...	...	...	...	...
		Churamon ...	0·16	...	...	0·74	...	0·08	...	...	4·38	1·84	0·54	0·34	0·14	...	...	...	...	0·19
		Raigunge ...	0·48	...	0·40	1·02	...	...	...	...	3·35	0·70	...	1·71	...	...	...	...	...	...
		Dinagepore ...	3·10	...	1·04	3·58	...	...	...	...	1·81	0·31	0·40	2·15	0·04	...	...	...	...	0·48
		Baloorghat ..	1·06	...	...	1·74	...	...	...	0·23	1·26	1·54	...	2·20	0·31	0·78	...	...	0·16	0·26
		Thakurgaon...	2·16	0·31	2·74	1·50	1·16	0·57	1·80	0·46	...	1·72	0·28	...	...	...	0·43	...	0·24	1·56
	Rungpore ...	Bhawanigunge (*Gyabanda*).	1·90	...	1·70	4·75	0·13	1·15	0·18	...	0·60	0·50	0·05	0·50	0·66	1·15	...	0·95	0·20	...
		Rungpore ...	0·25	0·06	2·31	3·75	1·57	1·10	0·42	0·95	1·00	0·52	0·02	2·81	0·21	0·30	0·03	...	0·28	0·21
		Kurigram ...	0·11	0·04	1·26	4·49	2·51	1·57	1·79	4·04	4·00	0·03	0·98	0·99	0·51	...	...	...	0·04	...
		Bagdogra (*Nilphamari*).	...	0·76	1·87	4·58	0·91	1·20	2·93	0·67	2·13	0·15	3·36	0·58	0·04	0·10	...	0·50	0·10	1·20
		Ulipore ...	0·75	..	3·11	3·75	...	0·84	0·48	1·16	1·12	...	...	2·64	0·46	...	...	1·16	...	...
	Julpigoree ...	Julpigoree ..	0·82	0·07	0·63	1·12	3·95	1·66	5·15	2·00	2·81	1·26	1·77	0·09	1·79	0·03	1·96	...	0·45	0·47
		Alipore Doar	2·40	1·06	0·54	0·69	7·23	2·55	5·84	2·81	0·61	1·79	5·58	1·17	0·65	2·29	2·57	...	0·14	0·84
		Falacotta ...	1·05	0·08	1·72	0·48	5·63	3·35	4·92	1·38	0·66	1·16	7·55	0·10	1·25	0·10	3·25	...	0·85	0·34
		Debiganj ...	0·17	1·75	0·33	2·50	2·08	2·10	4·80	2·48	3·85	0·12	0·22	0·18	...	...	0·50	...	...	0·24
		Bhogotpore (Nagrakatta).	0·07	0·56	0·11	1·67	0·87	0·57	3·04	1·63	0·65	2·65	0·46	0·29	0·35	2·02	0·08	...	1·27	0·27
	Cooch Behar...	Dinhatta ...	0·45	0·55	0·38	2·52	4·91	5·18	4·84	[illegible]	0·95	1·25	1·00	1·76	0·40	...	...	...	0·12	0·88
		Cooch Behar...	0·06	0·45	0·60	1·93	3·75	5·63	5·78	1·25	2·41	0·10	4·46	1·48	5·42	...	0·38	...	2·36	2·07
		Mickligunge...	0·18	0·02	0·15	0·21	3·04	7·32	4·00	2·32	2·20	1·19	5·42	0·72	1·20	0·04	0·07	...	...	6·22
		Matabhanga...	0·10	0·11	1·10	2·71	7·91	4·72	1·80	1·66	0·68	3·78	2·45	1·84	0·53	0·47	...	0·27	1·38	2·40
	Darjeeling Hill	Buxa ...	2·47	0·86	0·57	1·67	6·86	2·28	3·07	1·67	0·60	0·45	0·94	0·50	1·05	1·12	1·52	0·47	3·24	0·24
		Siliguri ...	1·64	0·04	0·18	0·80	1·98	0·72	6·21	1·00	0·52	1·81	0·84	0·18	0·58	0·05	0·56	0·89	0·09	2·52
		Darjeeling ...	0·17	...	0·96	0·28	0·11	0·63	1·51	0·51	0·57	0·50	0·33	0·34	0·12	0·05	0·85	0·03	0·24	0·33
		Kalimpong ..	0·22	0·02	0·05	0·26	0·36	0·56	1·47	0·63	0·28	0·75	0·20	0·15	0·13	0·30	0·03	...	0·29	0·26
		Kurseong ...	0·21	...	0·17	0·48	0·85	0·05	2·73	0·40	0·61	0·80	1·14	0·40	1·00	2·00	0·17	0·02	0·86	0·60
NORTH BEHAR	Purneah ..	Kissengunge	0·55	0·18	3·25	0·33	...	0·07	1·70	...	2·72	...	3·20	0·54	...	...	0·47	...	0·25	0·58
		Arrareah ...	...	...	...	0·82	...	...	0·14	0·53	1·60	0·14	3·08	...	...	...	...	...	...	0·23
		Purneah ...	0·63	...	...	1·16	...	...	0·01	0·62	5·98	0·42	0·02	...	...	...	...	...	...	1·30
		Gondwara ...	...	...	...	...	...	...	...	...	0·60	...	0·60	...	...	...	...	...	...	...
		Balarampore	...	...	0·15	1·00	...	...	...	1·20	2·20	0·20	...	...	...	...	...	...	1·10	0·05
		Matiari ...	...	...	0·46	...	...	...	0·44	1·09	...	...	...	...	...	...	0·50	...	...	...
		Kaliaganj ..	0·17	...	0·20	0·63	3·47	2·10	4·50	[illegible]	0·50	0·20	...	...	...	...	1·95	...	...	0·56
	North Bhagul-pore.	Maddapore ...	...	...	...	...	...	...	0·10	0·60	4·05	...	0·08	...	...	...	...	...	...	...
		Soopoul ...	...	...	...	0·54	...	...	0·15	0·80	0·90	...	...	...	...	...	...	...	...	...
		Protabganj ...	...	...	0·38	...	...	...	0·18	1·85	...	...	...	...	...	...	0·14	...	0·65	...

23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th June 1890.	Average rainfall from 1st January up to 30th June.	District.	Station.	Meteorological division.
1·35	6·00	1·75	0·23	...	0·45	0·05	0·18	21	20·1	17·28	21·44	6·00	27·93	36·16	Patuakhally	Backergunge.	EAST BENGAL—*concld.*
2·89	4·77	1·45	0·94	...	0·26	...	0·46	21	18·8	17·94	15·08	4·77	26·41	29·01	Perozepore.		
0·95	6·25	0·88	0·67	...	0·10	...	...	18	21·3	18·34	16·51	6·25	30·93	31·75	Burrisal.		
0·62	2·79	1·06	1·36	0·37	1·49	...	...	18	21·5	11·61	20·19	2·79	26·64	34·62	Bhola.		
1·88	6·15	0·13	...	...	...	0·11	...	8?	?	43·78?	?	6·15		?	*Gournaddi.*		
0·60	3·85	1·32	0·11	...	1·80	0·04	...	17	?	12·78	?	3·85	21·83	?	*Bamphal.*		
1·01	3·99	1·86	1·04	0·03	0·27	0·03	...	20	20·7	16·77	23·67	3·99	30·76	41·68	Noakholly ...	Noakholly.	
0·78	5·15	3·75	1·10	1·25	0·20	0·70	...	18	19·2	22·80	26·23	5·15	42·72	47·47	Fenny.		
3·25	5·15	0·10	0·90	2·50	...	0·50	...	18	?	27·68	?	5·15	43·24	?	*Harishpore.*		
0·27	2·90	3·15	0·22	...	3·60	...	...	17	?	17·77	?	3·60	33·82	?	*Ramganj.*		
1·68	2·85	...	...	...	...	...	0·57	11	18·1	7·62	13·09	2·85	22·41	29·94	Madaripore ..	Furreedpore.	
2·00	0·47	0·48	0·03	...	...	0·25	...	15	17·5	10·87	12·85	2·10	22·10	29·76	Furreedpore.		
1·13	0·97	0·50	...	...	0·35	...	...	15	17·0	8·72	11·07	3·65	24·46	26·38	Goalundo.		
0·62	1·04	1·35	...	2·20	3·00	...	...	16	18·9	13·80	16·17	3·00	33·80	35·87	Munshigunge.	Dacca.	
1·09	2·40	1·70	...	0·18	0·14	...	...	21	17·9	11·08	13·00	2·40	30·15	31·78	Dacca.		
0·48	1·46	1·46	...	1·84	1·70	...	...	18	19·6	12·82	13·96	1·84	32·98	31·85	Narainganj.		
2·77	2·03	1·30	0·15	1·47	...	...	0·08	20	17·0	15·47	9·62	2·77	31·39	25·83	Manickgunge.		
0·31	3·82	1·09	0·10	0·31	0·24	...	...	23	?	14·40	?	3·82	36·60	?	*Joydebpore.*		
1·27	3·35	1·12	0·73	0·35	0·12	...	...	17	17·0	16·18	14·21	3·35	39·37	37·30	Agartola ...	Hill Tipperah.	
0·12	1·33	1·38	0·05	2·31	...	0·06	...	21	21·2	13·92	18·34	2·84	27·95	39·80	Comilla.	Tipperah.	
1·42	2·96	1·03	...	...	...	...	...	11?	10·6	15·39	17·21	2·96		34·85	Chandpore.		
0·66	2·25	0·50	...	...	0·96	0·03	0·10	20	18·3	13·30	15·53	2·61	32·57	38·36	Brahmunberia.		
0·25	1·72	2·35	1·02	1·61	1·56	...	...	22	?	14·87	?	2·55	27·80	?	*Ramchandra-pore.*		
0·10	0·50	...	...	0·55	...	...	...	16	?	9·68	?	1·30	46·62	?	*Nasirnagar.*		
0·78	1·04	0·94	...	1·27	...	...	...	13	?	9·83	?	1·27	18·16	?	*Daudkandi.*		
1·50	3·40	1·19	2·02	1·11	...	...	...	15	?	21·94	?	3·40	37·83	?	*Kasba.*		
2·32	...	8·35	...	...	...	...	...	7?	?	10·40	?	8·35	35·51	?	*Laksham.*		
...	2·24	1·36	0·31	0·36	0·22	...	...	18	18·2	18·30	18·86	4·55	38·36	39·15	Kishoregunge.	Mymensingh.	
2·69	1·95	0·41	...	0·22	...	...	...	13	13·8	11·01	12·77	2·77	34·87	26·19	Atia (*Tangail*).		
0·05	2·44	1·57	0·97	2·70	0·07	0·56	0·12	25	22·1	20·96	20·50	2·70	41·06	41·82	Mymensingh.		
0·48	1·27	7·12	1·05	0·50	...	...	0·31	20	15·9	22·80	15·24	7·12	42·05	30·58	Jamalpore.		
0·12	3·70	0·40	0·10	2·40	0·55	0·16	0·56	25	21·0	25·81	21·78	4·00	43·84	40·42	Netrokona.		
...	2·57	3·47	0·03	0·38	...	...	...	8?	?	9·19	?	3·47	26·22	?	*Subornakhally.*		
...	3·50	5·80	1·70	0·30	...	...	1·50	19	?	32·23	?	5·80	52·44	?	*Durgapore.*		
0·21	0·54	4·65	0·22	0·54	0·05	...	...	21	?	18·07	?	4·65	39·28	?	*Sherpore Town.*		
0·30	6·15	...	3·20	0·05	0·20	...	...	14	?	17·59	?	6·15	36·67	?	*Dewanganj.*		
0·93	0·65	0·62	...	0·20	...	...	0·05	17	17·0	11·33	11·54	[illegible]	19·58	24·75	Pubna ...	Pubna ...	NORTH BENGAL.
0·90	2·43	1·46	...	0·56	...	0·24	0·22	10	14·9	9·66	11·10	2·43	29·08	21·50	Serajgunge.		
0·39	1·51	7·09	1·18	0·45	...	...	0·17	18	14·8	16·12	11·71	7·09	24·01	24·45	Sherpore ...	Bogra.	
0·30	0·27	3·27	0·90	0·38	...	0·12	0·06	16	17·3	12·15	12·64	3·27	29·04	24·84	Nowkhilla.		
0·24	0·78	4·18	0·08	2·15	...	...	0·58	17	17·9	13·80	15·09	4·18	23·38	20·48	Bogra.		
0·14	2·56	4·10	0·80	0·50	0·90	...	...	20	12·0	23·27	11·03	4·10	54·09	22·02	Panchbibi.		
0·13	2·87	6·07	...	0·29	...	0·25	0·50	16	15·6	17·03	10·51	6·07	24·21	20·24	Beauleah ...	Rajshahye.	
0·33	2·70	7·62	0·02	2·34	...	0·30	...	19	11·6	21·55	9·98	7·62	37·14	21·36	Nattore.		
0·57	4·91	1·89	0·19	0·76	...	...	0·66	19	15·0	15·64	13·69	4·91	[illegible]	22·01	*Naogaon.*		
1·87	1·16	0·09	...	...	...	0·02	...	12	?	8·41	?	1·87	[illegible]	?	*Lalpore.*		
1·50	2·30	0·50	0·30	...	...	...	...	12	?	8·56	?	2·30	12·09	?	*Manda.*		
0·44	0·94	0·83	0·29	0·13	0·13	0·22	0·34	19	15·3	11·50	9·83	4·07	16·09	17·27	Maldah ...	Maldah.	
0·32	0·13	1·83	0·10	...	2·00	0·44	0·06	19	15·4	11·02	11·65	3·20	15·80	19·08	Chanchal.		
0·55	0·24	0·70	...	...	0·70	0·90	0·06	16	?	13·48	?	4·20	17·35	?	*Gajol.*		
1·25	0·78	0·91	0·04	0·14	0·69	0·73	0·08	18	?	13·75	?	1·87	20·86	?	*Sibganj.*		
1·43	3·70	1·90	0·61	...	0·08	0·42	...	17	14·9	13·91	12·14	3·70	20·76	21·15	Mohadebpore ..	Dinagepore.	
0·90	0·19	2·73	0·13	...	3·45	0·17	...	17	12·5	18·08	12·44	4·38	25·09	19·18	Churamon.		
0·50	0·15	3·25	...	0·26	1·92	1·03	...	16	14·5	17·02	13·74	3·35	22·09	22·94	Raigunge.		
0·11	0·65	0·98	0·14	...	1·18	...	...	17	18·0	17·81	10·84	3·38	33·30	28·08	Dinagepore.		
0·24	1·21	1·64	0·28	0·36	0·90	...	...	20	14·3	15·81	12·84	2·20	[illegible]	21·74	Baloorghat		
...	1·40	4·69	2·28	2·23	2·42	...	...	21	?	30·56	?	4·69	41·84	?	*Thakurgaon.*		
...	0·20	5·50	1·30	1·04	...	0·10	...	22	14·6	23·78	15·69	5·50	40·01	29·84	Bhawanigunge (*Gyabanda*).	Rungpore.	
...	0·65	3·23	1·10	0·19	2·20	...	...	25	18·0	25·09	21·03	3·75	36·93	36·75	Rungpore.		
0·20	2·56	3·64	0·03	0·40	0·04	...	0·08	23	17·0	31·01	24·01	4·49	44·12	45·13	Kurigram.		
0·36	2·80	0·85	...	1·73	1·26	...	...	24	19·3	32·16	25·33	4·58	43·13	42·83	Bagdogra. (*Nilphamari.*)		
...	0·75	3·51	0·26	0·68	...	...	...	16	?	21·63	?	3·75	42·39	?	*Ulipore.*		
0·18	2·42	3·36	0·80	0·23	1·37	0·05	0·04	28	21·0	40·82	29·12	5·49	54·71	47·29	Julpigoree ...	Julpigoree.	
0·59	2·41	2·15	0·05	1·41	7·92	0·02	...	27	?	55·30	?	7·92	71·03	?	*Alipore Doar.*		
0·30	0·43	1·85	0·16	2·19	3·31	...	...	26	?	44·77	?	7·55	57·58	?	*Falacotta.*		
0·33	0·47	2·83	0·22	2·00	3·20	...	0·07	24	?	32·63	?	4·80	[illegible]	?	*Debiganj.*		
0·46	0·91	4·38	0·49	0·92	2·35	0·41	0·03	25	?	29·39	?	4·38	46·81	?	*Bhogotpore (Nagrakatta.)*		
0·21	1·89	2·06	0·21	1·68	1·16	0·03	0·05	27	22·2	40·74	31·23	7·05	55·00	52·77	Dinhatta	Cooch Behar.	
0·30	4·10	0·44	...	0·80	3·86	...	...	23	22·1	47·90	36·62	5·78	66·10	59·30	Cooch Behar...		
0·22	1·58	2·65	0·18	1·75	1·25	0·43	0·21	28	20·9	47·11	27·51	7·32	62·34	47·25	Mickligunge.		
2·58	2·47	0·13	0·35	4·17	...	0·13	...	27	23·8	44·07	32·23	7·91	61·80	52·65	Matabhanga.		
1·36	2·14	3·92	0·65	0·83	4·62	0·50	0·01	30	24·1	44·09	44·19	6·86	63·39	79·11	Buxa.	Darjeeling.	
0·10	1·00	3·90	0·73	0·20	1·97	0·35	0·57	30	21·6	32·57	26·85	6·21	46·64	41·62	Siliguri.		
1·84	3·61	6·44	1·50	0·16	3·66	0·54	0·32	29	24·3	31·32	24·03	6·44	42·97	39·63	Darjeeling.		
2·65	3·62	2·87	1·41	0·09	3·10	0·39	0·05	29	21·3	21·58	19·05	3·62	29·48	31·20	Kalimpong.		
2·96	1·55	7·50	1·46	2·46	4·75	1·35	1·74	29	?	45·87	?	7·50	55·28	?	Kurseong.		
0·48	0·65	1·20	1·41	1·35	2·94	0·80	...	22	15·8	25·42	15·30	3·25	31·60	25·40	Kissengunge ...	Purneah ...	NORTH BEHAR.
0·23	0·11	3·25	...	0·35	0·48	0·25	...	16	11·9	13·40	12·99	3·25	19·06	21·92	Arrareah.		
0·54	0·14	2·85	0·10	0·16	1·22	0·76	0·01	20	13·1	20·18	10·86	5·93	25·22	18·17	Purneah.		
									?		?			?	*Gondwara.*		
...	0·36	2·60	...	1·70	4·05	0·40	...	16	?	16·60	?	4·05	20·45	?	*Balarampore.*		
2·20	0·30	5·00	0·30	...	...	...	...	11	?	12·59	?	5·00	14·33	?	*Matiari.*		
1·00	0·50	6·35	0·09	1·50	2·00	...	...	21	?	29·15	?	6·35	37·87	?	*Kaliaganj.*		
2·40	0·40	0·60	...	0·55	0·75	0·68	...	13	9·9	18·61	8·38	4·05	17·77	15·09	Maddapore ..	North Bhagul-pore.	
1·30	0·70	0·67	0·93	0·32	0·72	0·07	0·17	15	10·7	8·67	8·97	1·30	11·68	16·09	Soopoul.		
...	3·64	0·16	...	0·75	...	0·09	...	11	?	10·79	?	3·20	13·29	?	*Protabganj.*		

Table of Rainfall recorded at Station

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
NORTH BEHAR—*concld.*	Durbhunga ...	Tajpore	...	...	...	...	...	...	0·02	0·30	...	...	...	...	...	...	...	...	...	0·64	...
		Durbhunga	...	...	...	...	...	...	...	1·45	0·40	...	1·23	...	...	1·03	...	...	...	0·11	0·06
		Madhubani	...	...	...	...	...	0·09	...	1·12	2·11	...	0·16	...	...	...	...	...	...	...	0·78
		Bahera	...	...	...	...	...	...	...	0·36	0·54	...	...	0·13	...	0·31	...	...	...	...	...
		Rooshera	...	...	...	...	...	0·80	...	0·20	0·10	...	...	...	...	...	...	...	...	...	1·50
	Mozufferpore	Sitamarhi	...	...	...	0·06	...	...	...	1·07	0·78	0·02	...	...	...	0·02	...	...	...	...	0·35
		Mozufferpore	...	...	...	...	...	...	...	2·04	0·08	...	...	...	0·06	...	...	0·21	...	...	...
		Hajipore	...	...	...	...	...	...	...	0·02	0·41	...	...	...	0·29	...	...	...	0·03	...	...
		Parsa	...	...	...	...	...	...	...	0·97	0·05	...	...	...	...	0·80	...	...	...	...	...
		Mahua	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·02	...	...	...	0·93
		Sishar	...	...	...	...	...	...	...	1·60	0·30	...	...	...	...	0·70	...	...	...	...	...
		Pupri	...	...	0·30	...	...	...	...	1·40	1·06	1·40	...	...	...	0·14	...	...	...	...	...
	Chumparun ...	Motihari	...	...	...	...	...	...	...	1·84	0·62	...	...	...	...	0·57	0·91	0·33	...	...	0·61
		Bettiah	...	...	...	...	...	...	...	2·50	0·07	...	...	...	...	0·29	1·68	...	...	...	0·61
		Bagaha	...	0·15	0·84	...	...	...	0·12	1·56	0·15	...	...	...	...	0·07	1·52	...	...	1·68	1·02
		Burhurwa	...	...	...	...	...	...	...	1·41	...	...	...	...	...	0·32	0·63	1·70	...	...	0·05
	Sarun ...	Gopalgunge	...	...	...	...	...	...	...	0·75	...	...	...	...	...	...	0·25	...	0·15	0·60	...
		Sewan	...	...	...	...	...	...	0·44	0·08	...	...	...	...	0·08	...	...	...	0·04	3·13	...
		Chupra	...	...	...	...	...	...	0·10	0·12	0·09	...	...	0·71	0·47	...	...	...	...	...	0·10
SOUTH BEHAR	Shahabad ...	Buxar	...	...	...	...	...	...	...	...	...	...	...	...	0·30	0·69	...	...	...	...	0·48
		Dehree	...	...	...	...	...	...	0·30	0·12	...	...	...	...	0·40	...	...	...	...	0·76	...
		Bhubooah	...	...	...	...	...	...	0·25	...	...	...	...	...	0·10	...	...	...	0·08	...	0·35
		Sasseram	...	...	...	...	0·02	0·40	0·17	...	...	...	...	...	0·41	...	...	...	...	...	...
		Arrah	...	...	...	...	...	...	0·04	...	0·15	...	...	...	0·14	...	...	...	...	...	...
		Mohaniah	...	...	...	...	...	...	...	...	...	...	...	...	0·70	...	...	...	...	...	2·10
	Gya ...	Aurungabad	...	...	...	...	...	...	0·32	...	...	...	...	...	0·12	...	...	0·17	...	...	...
		Gya	...	...	...	...	...	...	...	...	...	...	0·33	...	0·06	...	...	...	...	...	...
		Nowadah	...	...	...	...	...	...	...	...	...	0·77	...	1·47	...	...	...	...	...	...	0·93
		Jehanabad	...	...	...	...	...	...	0·10	0·06	...	0·10	...	...	0·15	...	...	...	...	...	...
		Arwal	...	...	...	...	...	...	...	...	0·04	...	...	...	0·60	...	...	...	...	...	...
		Daudnagar	...	...	...	...	...	...	...	...	...	...	...	0·85	...	...	...	...	...	...	...
		Sheerghati	...	...	...	...	...	...	...	...	...	...	...	...	0·50	...	...	...	...	...	...
		Rajauli	...	...	...	...	...	...	...	...	...	...	0·03	...	0·46	...	...	...	...	...	...
		Pakri Baracoas.	...	...	...	...	...	...	...	...	...	...	...	...	0·68	...	...	...	...	...	...
	Patna ...	Patna	...	...	...	...	...	...	...	...	0·28	...	...	...	0·25	...	...	...	0·12	...	...
		Dinapore	...	...	...	...	...	...	...	...	0·28	...	...	...	0·41	...	...	...	...	...	...
		Behar	...	...	...	...	...	...	...	...	0·19	...	...	...	0·55	...	...	0·02	...	...	...
		Barrh	...	...	...	...	...	...	...	...	0·65	...	...	...	0·30	...	...	...	...	...	...
		Bickram	...	...	...	...	...	...	0·40	...	0·35	...	...	...	0·05	...	...	0·70	...	...	...
		Hilsa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Monghyr ...	Begoosersi	...	...	...	0·15	...	...	0·04	0·15	1·05	0·05	...	...	0·04	...	...	...	...	...	...
		Monghyr	...	...	...	...	...	...	...	0·20	0·20	1·17	...	...	...	...	...	...	...	...	...
		Jamui	...	...	...	...	...	...	...	...	...	0·36	0·24	...	1·79	...	...	...	...	...	...
		Gogri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·76
		Sheikpura	...	...	...	...	...	...	...	...	...	...	...	...	0·80	...	...	...	...	...	...
	South Bhagulpore,	Bhagulpore	...	...	...	...	0·14	...	...	0·05	0·25	0·81	0·07	...	...	...	...	...	0·15	...	0·30
		Banka	...	0·34	...	...	...	...	...	...	...	0·52	...	...	0·19	...	...	...	...	...	...
		Kolgong	...	...	...	...	...	...	...	...	1·00	0·32	...	...	...	...	...	...	...	...	0·72
		Bangaon	...	...	...	...	...	...	...	0·73	2·42	0·43	...	...	...	...	...	...	...	...	...
	Sonthal Pergunnahs.	Rajmehal	...	0·39	...	...	0·05	...	...	3·05	...	1·01	...	...	0·57	...	...	...	...	...	0·09
		Godda	...	0·95	...	...	...	...	...	...	0·08	1·80	...	0·02	0·22	...	...	...	...	...	...
		Pakour	...	1·45	...	...	...	0·11	0·39	...	1·15	0·86	...	0·35	0·85	0·34	...	...	2·62	...	0·01
		Nya Doomka	...	0·65	...	...	0·05	0·38	...	...	...	0·56	...	0·01	0·26	0·01	...	...	...	...	...
		Deoghur	...	...	0·12	...	...	...	...	...	...	0·08	...	0·08	0·21	...	...	...	...	...	...
		Jamtara	...	0·03	0·26	...	0·05	...	...	...	...	...	...	...	0·58	...	...	...	...	...	...
		Mohagama	...	0·25	...	...	...	...	...	...	0·72	...	...	...	...	...	...	...	...	...	2·15
		Nanihat	...	...	...	...	0·31	...	...	...	0·65	...	...	0·22	...	...	...	...	...	...	...
CHUTIA NAGPORE.	Hazaribagh ...	Pachamba (*Giridi*).	...	...	...	0·78	...	...	...	...	0·11	...	0·81	0·03	0·11	...	0·28	...	...	...	...
		Hazaribagh	...	...	0·02	0·11	...	0·04	0·04	...	...	...	0·95	...	0·12	0·03	...	...	...	...	0·03
		Scuntagurah	...	...	...	...	...	...	...	...	0·23	0·30	...	...	...	0·25	...	...	...	...	0·76
		Mahudi Hills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·25
		Jhoomrah Hills	...	...	...	...	...	...	...	2·20	0·80	...	...	...	...	0·60	...	...	...	...	0·90
		Barhi	...	...	...	...	...	...	...	...	...	...	...	...	0·27	...	...	...	...	...	...
		Chatra	...	...	...	...	...	...	...	...	...	...	...	...	0·30	0·35	...	...	...	...	...
		Karaguha	...	...	...	0·07	...	0·22	0·13	...	...	...	...	0·08	...	...	...	...	...	...	0·04
		Ramghar	...	...	...	...	...	...	...	...	...	...	2·30	...	...	...	...	...	...	...	...
	Lohardugga...	Lohardugga	...	...	0·17	...	...	...	0·45	...	...	...	...	...	0·64	1·21	...	...	0·17	...	...
		Ranchi	...	...	...	...	...	...	...	...	0·43	0·38	...	...	0·28	0·20	0·18	...	...	...	...
		Palamow	...	...	...	...	...	0·04	0·07	...	...	...	0·90	...	0·50	...	...	...	...	...	...
		Sitli	...	...	...	...	...	...	...	...	...	1·10	...	...	...	...	1·00	...	...	...	...
		Balumat	...	...	...	0·04	...	0·02	0·05	...	...	...	...	...	1·50	0·79	...	...	...	...	...
		Hosainabad	...	...	...	...	...	...	0·45	...	...	...	...	...	...	...	...	...	...	...	...
		Garwah	...	...	...	...	...	...	...	...	...	1·34	...	...	...	...	...	...	...	...	1·10
	Singbhoom ...	Chyebassa	...	0·06	...	...	...	...	...	...	0·11	0·03	...	...	1·57	0·06	...	...	...	...	0·55
		Chakradharpore.	...	0·30	...	0·10	...	...	0·15	...	...	0·10	...	0·80	...	0·15	0·80	...	0·10	...	...
		Ghatsila	...	...	0·28	0·45	...	...	...	...	...	...	1·12	2·90	...	0·13	...	...	...	0·05	0·12
		Baharagura	...	...	...	...	0·25	0·15	...	...	0·45	...	0·21	3·15	0·65	...	...	...	...	...	1·01
	Manbhoom ...	Purulia	...	0·54	...	...	...	0·31	...	...	0·29	0·10	...	0·18	1·18	...	...	...	...	...	0·06
		Gobindpore	...	0·03	...	...	0·17	0·03	...	...	...	...	...	...	...	0·16	...	...	...	...	0·03
		Raghunathpore.	...	0·13	...	...	0·01	...	...	...	0·34	...	...	...	...	...	...	...	...	...	0·06
		Barrabhoom	...	...	...	0·15	...	...	...	...	0·11	...	...	1·50	0·35	...	...	...	...	...	0·23
		Jhalda	...	...	0·21	...	...	...	...	...	0·48	...	0·21	0·39	...	...	...	...	...	...	2·06
		Chas	...	...	...	1·47	...	0·03	...	...	...	...	...	...	...	...	...	...	...	...	...

al for the month of June 1890—*concluded.*

23	25	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th June 1890.	Average rainfall from 1st January up to 30th June.	Station.	District.	Meteorological division
2·02	0·22	0·02	2·56	1·02	...	0·82	...	0·18	11	8·7	8·78	7·46	2·56	10·47	11·30	Tajpore ...	Durbhunga ...	NORTH BEHAR—*concld.*
0·15	0·35	0·59	1·54	1·58	0·02	0·55	0·30	0·48	18	10·3	11·20	7·34	1·54	13·96	12·38	Durbhunga.		
0·40	0·84	0·16	1·78	1·37	0·03	3·00	0·61	0·11	16	10·7	12·63	8·45	3·00	16·78	14·06	Madhubani.		
0·70	1·56	0·10	1·00	1·72	1·15	0·74	1·10	...	14	P	12·53	P	2·90	15·51	P	*Bahera.*		
0·90	0·40	1·30	0·20	1·30	1·60	0·10	0·40	...	14	P	10·60	P	1·90	12·36	P	*Rooshera.*		
0·05	0·32	0·20	1·60	0·48	0·22	0·53	0·77	0·68	17	9·1	8·37	7·84	1·67	13·16	13·14	Sitamarhi ...	Mozufferpore.	
.....	1·02	0·20	2·53	0·77	...	0·63	0·07	...	12	8·9	9·12	6·81	2·53	10·76	11·54	Mozufferpore.		
0·21	0·61	0·13	3·05	1·07	0·13	0·17	...	...	13	8·8	7·58	0·54	3·80	11·64	10·25	Hajipore.		
0·60	0·76	0·14	3·25	1·03	...	...	0·80	...	11	P	9·62	P	3·25	11·47	P	*Parsa.*		
.....	0·40	0·15	4·35	1·20	...	...	0·30	...	8	P	10·83	P	4·35	13·36	P	*Mahua.*		
.....	0·45	0·45	3·70	0·90	...	1·35	0·90	...	11	P	11·25	P	3·70	15·09	P	*Sishar.*		
0·30	0·88	0·27	4·27	1·20	...	1·00	0·72	...	14	P	11·69	P	2·27	14·33	P	*Pupri.*		
0·29	...	0·24	4·57	1·24	0·09	0·55	...	0·11	14	10·2	11·40	8·25	4·57	19·31	13·59	Motihari ...	Chumparun.	
.....	...	0·32	4·00	1·39	...	1·09	0·04	0·40	13	8·8	13·90	8·35	4·00	15·79	13·22	Bettiah.		
.....	0·28	0·14	1·31	1·07	0·13	0·17	1·08	0·09	19	P	16·67	P	2·75	19·08	P	*Bagaha.*		
0·17	...	0·41	2·30	2·00	0·03	0·72	3·94	0·24	15	P	14·36	P	3·94	17·57	P	*Burhurwa.*		
.....	...	0·70	3·60	0·70	0·20	1·30	0·15	...	12	9·5	8·85	6·03	3·60	10·74	10·79	Gopalgunge...	Sarun.	
.....	2·13	1·51	2·01	...	0·22	...	0·14	0·50	13	8·7	12·80	6·00	3·13	14·03	10·19	Sewan.		
0·18	1·90	3·57	1·57	...	0·21	...	...	0·33	14	8·2	10·00	6·17	3·57	13·13	9·51	Chuprah.		
0·18	0·01	0·48	1·50	0·35	0·09	0·76	0·00	1·90	15	8·8	9·64	4·70	1·90	11·63	7·29	Buxar ...	Shahabad ...	SOUTH BEHAR.
0·02	2·33	0·93	0·07	1·05	1·12	0·17	...	1·08	18	8·0	10·32	4·05	2·33	10·72	7·42	Dehree.		
.....	0·70	0·70	1·10	0·10	0·10	...	1·08	...	12	7·6	9·76	5·08	3·90	10·21	8·03	Bhubooah.		
0·10	2·59	0·39	0·29	...	0·10	0·28	...	0·50	13	9·2	9·03	5·03	3·02	11·32	7·57	Sasseram.		
0·07	1·80	2·62	1·95	1·85	...	0·12	0·17	0·06	13	9·6	11·94	6·45	2·62	13·01	10·34	Arrah.		
1·30	...	...	...	...	...	0·50	1·30	...	6?	P	7·00	P	2·10	7·23	P	*Mohaniah.*		
2·47	3·23	1·05	0·05	0·43	...	0·45	...	0·11	12	7·9	9·73	5·21	3·23	10·43	8·40	Aurungabad...	Gya.	
0·04	3·08	3·04	1·26	0·01	...	0·01	...	0·04	11	10·1	11·15	6·13	3·04	12·40	9·35	Gya.		
0·30	3·15	1·05	1·35	1·23	0·07	1·52	...	0·70	15	7·3	10·07	5·46	3·15	17·08	9·30	Nowadah.		
0·15	0·08	5·10	4·03	0·37	...	0·42	0·02	0·02	14	7·4	10·15	4·91	5·10	17·87	8·18	Jehanabad.		
3·30	...	...	...	...	3·50	...	...	...	6	P	9·25	P	3·50	11·04	P	*Arwal.*		
0·40	0·50	...	0·30	...	...	...	...	0·20	7	P	3·74	P	0·99	4·01	P	*Daudnagar.*		
0·56	1·50	1·56	0·50	...	...	...	0·30	0·61	8	P	6·99	P	1·92	6·99	P	*Sheerghati.*		
0·30	2·36	0·45	1·45	0·13	0·55	0·32	0·35	0·45	13	P	13·04	P	4·35	13·06	P	*Rajauli.*		
2·40	1·00	5·10	2·35	1·30	0·85	2·80	...	...	9	P	19·13	P	5·10	9·48	P	*Pakri Barawan.*		
0·06	1·02	0·80	2·26	0·89	0·05	0·18	1·00	...	18	10·2	7·80	6·72	2·26	11·30	10·23	Patna ...	Patna.	
0·05	0·72	2·78	0·35	0·84	0·45	0·80	...	...	11	8·0	7·56	6·40	2·76	10·85	9·35	Dinapore.		
0·77	0·06	5·80	1·22	...	0·07	...	...	0·09	11	9·3	11·21	6·17	5·80	12·62	10·08	Behar.		
.....	0·50	3·00	0·80	...	0·10	0·50	...	...	9	8·8	6·25	4·88	3·00	9·38	8·05	Barrh.		
1·08	0·94	3·80	1·70	0·82	...	0·39	...	0·24	13	P	12·82	P	3·80	14·85	P	*Bickram.*		
0·13	3·10	5·17	1·18	0·70	0·20	2·56	...	...	8	P	14·42	P	5·17	17·19	P	*Hilsa.*		
0·36	0·31	0·10	3·00	0·45	...	1·85	0·70	0·10	16	9·6	10·09	6·01	3·00	13·25	10·05	Begoosersi ...	Monghyr.	
4·42	1·92	0·18	0·85	1·98	0·02	0·25	0·38	...	13	10·7	14·60	6·89	4·42	18·79	10·68	Monghyr.		
0·70	1·48	2·47?	2·61	1·60	0·65	1·35	...	...	12	9·8	18·41	6·35	4·52	19·71	10·72	Jamui.		
.....	2·64	...	...	3·52	...	...	...	0·81	6	P	13·11	P	3·78	17·50	P	*Gogri.*		
.....	0·85	2·55	3·00	0·74	0·20	1·62	...	0·10	10	P	14·89	P	3·13	15·19	P	*Sheikpura*		
0·04	1·59	0·12	1·14	2·80	0·14	0·18	0·14	0·25	18	12·1	10·90	8·14	2·80	15·43	13·18	Bhagulpore ...	South Bhagulpore.	
0·10	0·87	1·05	1·06	1·29	...	0·33	0·15	0·88	13	10·8	9·29	7·50	1·42	16·19	12·06	Banka.		
0·74	2·75	0·31	2 40	0·90	...	3·19	0·21	0·38	13	P	14·82	P	3·19	18·73	P	*Kolgong.*		
1·80	1·56	0·84	...	0·60	0·04	1·73	0·84	...	10	P	11·30	P	2·42	14·68	P	*Bangaon.*		
0·06	0·38	0·82	0·98	0·57	0·15	1·26	2·07	...	16	11·3	13·89	10·02	3·05	17·89	16·97	Rajmehal ...	Sonthal Pergunnahs.	
0·35	1·25	1·20	1·05	...	0·04	1·10	0·25	...	14	10·9	10·81	6·79	1·80	16·29	12·03	Godda.		
0·09	2·47	1·85	1·09	0·78	2·78	1·35	3·39	0·49	21	14·4	12·70	10·68	3·39	20·19	17·59	Pakour.		
0·07	2·25	2·11	0·40	0·12	0·14	0·14	0·53	0·11	18	15·3	14·90	8·79	6·11	18·48	15·42	Nya Doomka.		
1·09	0·81	3·95	0·81	...	0·60	0·80	...	0·81	13	13·1	10·05	8·12	3·95	15·38	13·67	Deoghur.		
1·38	5·59	8·05	0·12	...	...	0·19	...	0·21	12	14·2	20·51	7·90	8·59	23·97	13·62	Jamtara.		
1·35	1·88	...	2·55	...	0·24	1·56	...	...	10	P	7·60	P	2·55	16·01	P	*Mohagama.*		
0·30	1·07	1·25	0·12	...	0·76	0·12	...	0·17	12	...	6·07	P	1·25	9·02	P	*Nanihat.*		
0·06	3·13	6·82	1·36	...	0·30	0·58	0·56	0·20	16	14·2	18·20	7·84	6·52	20·07	12·46	Pachamba ... (*Giridi*).	Hazaribagh ...	CHUTIA NAGPUR.
0·03	1·21	2·69	0·32	...	0·08	0·10	0·07	1·12	18	15·3	8·02	7·94	2·69	10·39	11·09	Hazaribagh.		
0·70	1·92	1·40	...	...	0·55	0·18	0·57	1·15	12	11·4	8·06	7·70	1·92	9·87	12·79	Scuntagurah.		
0·21	0·84	1·36	...	...	0·22					10·5						Mahudi Hills.		
0·80	2·50	2·00	...	...	0·60	0·10	...	1·70	13	11·6	14·30	10·33	2·50	15·19	14·41	Jhoomrah Hills		
0·76	...	2·80	0·47	...	...	0·64	...	0·40	8	P	8·17	P	2·80	9·61	P	*Barhi.*		
0·80	3·50	0·60	...	0·35	...	0·15	...	0·70	11	P	7·30	P	2·50	10·05	P	*Chatra.*		
0·79	1·13	3·69	1·05	0·39	0·09	0·30	0·11	...	13	P	15·58	P	3·69	18·30	P	*Karaguha.*		
.....	0·07	2·02	...	...	...	...	...	0·50	5	P	7·96	P	3·05	11·84	P	*Ramghar.*		
1·40	0·20	1·00	0·75	...	0·30	...	...	0·22	13	13·8	8·34	7·97	1·40	10·59	12·55	Lohardugga...	Lohardugga.	
0·27	0·09	2·11	0·36	0·06	...	...	...	0·88	14	15·2	7·99	7·64	2·11	13·88	13·73	Ranchi.		
1·55	0·95	0·87	0·02	...	...	0·37	...	0·45	12	10·0	7·37	5·91	1·55	9·89	9·47	Palamow.		
0·90	1·60	1·40	...	...	...	0·90	...	...	7	P	7·20	P	1·40	10·90	P	*Sitli.*		
0·14	3·45	1·80	0·03	...	0·05	...	...	1·13	11	P	7·13	P	2·45	7·84	P	*Balumat.*		
...	2·21	0·30	...	...	...	...	...	1·70	7	P	7·47	P	2·21	8·01	P	*Hosainabad.*		
0·22	0·46	...	0·10	0·36	...	1·53	1·40	...	10	P	7·85	P	1·53		P	*Garwah.*		
0·03	0·37	2·29	0·11	0·08	...	1·38	1·00	15	15·8	9·04	6·01	2·29	14·41	15·29	Chyebassa ...	Singbhoom.		
0·10	0·50	0·40	0·30	0·20	0·10	0·30	...	0·20	17	P	3·99	P	0·50		P	*Chakradharpore.*		
0·15	0·75	0·35	...	0·07	...	2·53	0·07	0·90	16	P	11·46	P	2·50	19·58	P	*Ghatsila.*		
0·35	0·95	0·35	...	0·15	1·02	3·45	...	0·41	16	P	15·23	P	5·45	24·86	P	*Baharagura.*		
1·30	1·39	4·17	0·15	0·18	...	0·11	0·74	...	16	15·5	12·78	8·77	4·17	17·35	14·59	Purulia ...	Manbhoom.	
0·55	4·07	5·37	0·05	...	...	0·08	0·02	0·03	15	13·4	11·74	7·00	5·37	13·15	11·46	Gobindpore ...		
0·30	3·11	5·41	...	0·49	...	0·07	0·61	0·20	13	P	14·35	P	5·41	17·11	P	*Raghunathpore.*		
0·20	1·01	1·20	0·30	0·05	...	0·20	1·53	0·02	15	P	8·36	P	1·20	14·09	P	*Barrabhoom.*		
0·53	3·00	...	...	...	...	0·37	0·83	...	11	P	10·13	P	3·00	13·03	P	*Jhalda.*		
0·80	2·55	5·18	0·15	...	...	0·81	0·20	0·55	11	P	9·19	P	5·18	17·38	P	*Chas.*		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF JUNE 1890.

DURING the first half of June ordinary hot-weather conditions usually prevail over the greater part of the province, the chief features being clear skies with low humidity and high temperature. But the moist current from the Bay of Bengal beginning in Burmah some time in May and passing northwards is deflected by the Assam hills, so that in the north-east corner, and sometimes in the northern part of East Bengal, heavy rain continues to fall from the beginning of June. The dry hot weather remains unchanged till the commencement of disturbed weather in the Bay, when somewhat suddenly the sky becomes cloudy, and hot moist weather is general in the lower districts, till the disturbance, crossing the coast, moves in a north-westerly direction, giving heavy rain along its course. After its passage the rainfall area gradually extends, and rain becomes general in all districts. Thus as a rule the change from the hot weather to the rains is clearly defined by the commencement of the depression in the north of the Bay.

During the present year heavy rain began to fall in Burmah very early in May, and it will be remembered that during the first two weeks of May intensely hot weather prevailed in Bengal till near the end of the second week, after which cloudy weather with high humidity, low temperature, and scattered showers prevailed till the end of the month. The weather during the first two weeks of June has been similar to that of the latter half of May. Scattered rain fell except in East and North Bengal, where heavy and continuous rain was reported, especially from the former. Pressure was low over Behar, and a steady wind circulation continued for some time, velocity rising at times as the differences of pressure increased over the province. But notwithstanding the cloudy weather, rainfall was generally below the normal except in North Bengal, and though a moist current was undoubtedly blowing over Bengal, heavy rain did not set in till about the end of the third week. During the first week a shallow depression formed in Behar, pressure falling briskly on the 4th, and rapidly on the 5th, in the northern districts, in consequence of which heavy rain fell, not only in North Bengal, but also in North Behar, from the 6th to the 8th, and heavier and more general rain fell in the south-eastern districts. In the western districts, over which westerly winds were blowing from the Central Provinces, the sky was clear with very high temperature, excess in South Behar being 4° and in Chutia Nagpur 2·4°, so that differences of pressure as well as of temperature were large from east to west, and conditions were very favourable for strong easterly winds. After rain commenced to fall in Behar, temperature fell very rapidly at western stations, the largest falls on the 7th being 16° at Dehree, 15·6° at Gya, and 11·5 at Hazaribagh, and from being 4° in excess for the first week, mean temperature fell to 5° below the normal for the second week in South Behar. Rainfall continued to be considerably below the normal in all the southern districts except Orissa, where general rather heavy rain fell on the 7th and 10th, and scattered showers on the 8th and 11th. From the fact that rainfall during this week was largely above the normal in the northern districts, while over a strip of country lying between Orissa and these districts there was considerable defect, this heavier rain in Orissa was probably due to the disturbed conditions which at that time were general over the greater part of the peninsula. From the 13th to 17th only scattered rain fell in the north and east, skies clearing and temperature rising slowly in all districts, but about the 17th pressure began to fall in the north-west corner of the Bay, and the first depression of the season formed.

Shallow depression from 17th to 20th.—A brisk fall of pressure commenced in Orissa and the north-west corner of the Bay on the 17th, and the low-pressure area became more distinct on the 18th, when a narrow trough of low pressure ran from the head of the Bay in the usual north-westerly direction. The intensification of the depression was accompanied by a slight deepening along the length of the trough, while on the 19th there was considerable defect and steep gradients to the south-east behind the centre. After remaining two days close to the Orissa coast, the depression moved over Orissa and Chutia Nagpur, where it filled up on the 20th. The influence of the depression was not wide, light cyclonic winds blowing in its near neighbourhood, while comparatively fine weather prevailed in the north and east of the province. Fairly heavy general rain fell in Orissa on the 18th, in Orissa and South-West Bengal on the 19th, and in all districts on the 20th. Immediately after the filling up of this shallow depression in Chutia Nagpur, and before the unsettled conditions resulting therefrom had passed away, a second depression began to form over the eastern part of South-West Bengal. The combined influence of the two depressions, that is, the after-effects of the first being intensified during the formation of the second, caused very stormy weather with abnormally heavy rain in all parts of Bengal.

Second depression from 21st to 24th.—On the 20th easterly winds were blowing over the whole province except in Orissa, and these directions remained unchanged on the 21st, but velocity was diminishing rapidly. On the 22nd westerly winds had set in over South Behar, Chutia Nagpur, and South-West Bengal. Pressure at first fell briskly, the fall becoming more rapid on the 22nd, when the area of lowest pressure extended from the head of the Bay to Mymensingh and as far east as Silchar. The depression was therefore well to the east, and winds were cyclonic over the whole of Bengal. Heavy rain had begun to

fall, Midnapore reporting 8 inches, and all the southern stations from Calcutta eastwards from 2 to 4 inches. On the following day the depression had moved nearly due west, the centre of lowest pressure and of the cyclonic circulation being between Berhampore and Burdwan. A very perfect circulation obtained with very strong winds at the head of the Bay and in Lower Bengal. Rainfall was heavier than on the 22nd at all stations to the south of the centre, Jessore and Akyab reporting 10, Raneegunge and Krishnagûr 8, Burdwan 7, and several other stations from 3 to 6 inches. Wind velocity averaged more than 30 miles an hour for the day previous to 8 a.m. on the 23rd, at which hour it was 36 miles at Saugor Island and 40 miles an hour at Pooree Up till 8 a.m. on the 24th the stormy weather intensified, the depression moving in a north-westerly direction, but it would appear that it broke up, one portion being near Allahabad and the other near Purneah and Bhagulpore when observations were taken on the 24th. Pressure at Purneah was then 29·344 inches, and at Bhagulpore 29·349 inches, defect at these two stations exceeding a quarter of an inch, while gradients were steep over the province and the Bay, the difference between Purneah and Tavoy exceeding ·6 inch. The average wind velocity at Saugor Island rose to 42 miles an hour, and very strong winds were blowing at all inland stations except those in the extreme north. Heavy rain continued in the southern districts, but in North Behar and the greater part of North Bengal comparatively small amounts were received. The depression had filled up on the 25th, and after that ordinary monsoon weather prevailed in Bengal for some days.

The influence of the depression practically ceased on the 25th, and on the 28th pressure began to fall again in the north-west corner of the Bay and the adjacent districts. The low-pressure area which then began to form developed slowly on the 29th and 30th without much change of position, so that the description of this storm belongs to the meteorology of the month of July. It was not accompanied by heavy rain except in the immediate neighbourhood of the centre, and passed in a westerly direction over False Point into Central India during the night of the 1st July, but it was peculiar in being followed by rapid and large atmospheric oscillations, the waves passing from east to west across Bengal and the nothern half of the Bay. While it retained its position at the head of the Bay, moderately calm weather with light rain prevailed at inland stations.

As the only means of comparing the strength of the monsoon in different years is by means of the wind velocity, the accompanying table has been prepared to show the average wind velocity in June at the coast stations and at a few a short distance inland. It will be seen that the average for the present month is normal or below the normal at the eastern stations, but is considerably above the normal in the north-west corner of the Bay. The only part of Bengal where rainfall is below the normal is that contiguous to the north-east corner of the Bay, so that both wind force and actual rainfall bear out that, so far, a weak monsoon current has been blowing on the east coast, but that in the west of the Bay it has been stronger than usual:—

Stations.	Actual average wind velocity in June 1890.	Normal wind velocity in June.	Variation of actual for June 1890 from normal.
	Miles per day.	Miles per day.	
Diamond Island	186	207	—21
Akyab	100	97	+ 3
Chittagong	154	152	+ 2
Dacca	200	152	+48
Jessore	94	117	—23
Calcutta	145	141	+ 4
Saugor Island	465	428	+35
Cuttack	97	97	0
False Point	327	309	+18
Gopalpur	389	314	+75

Pressure—Was rising in the early part of June, but after the first three days a rapid fall set in in the northern districts, resulting in a depression over Behar. The most rapid fall was ·17 inch at Julpigoree and Dhubri and defect was ·15 inch in South Behar, from which it gradually diminished towards the south till it had almost vanished at the head of the Bay. During the second week it was generally in excess by variable amounts ranging up to ·06 inch, the relatively higher pressure being in Orissa, South-West Bengal, the Sunderbuns, and Singbhoom. During the third week pressure continued high in all districts except Orissa and Chutia Nagpur, where the formation of the depression caused somewhat rapid changes. These were of no importance till the 18th, when a brisk fall commenced at Orissa stations and continuing on the 19th gave defect of ·2 inch at False Point and ·15 inch at the other stations. On the 20th the depression was over Chutia Nagpur and slightly more diffused, defect being ·15

inch at Ranchee only. By the following day it had filled up. Gradients were very steep to the south-east of the depression, the difference between False Point and Tavoy at one time being half an inch. While the second depression was moving over the western districts, changes were large, defect near the centre being ·25 inch, and the rise after the passage of the centre being at some stations about a third of an inch. On the 25th the rise was very rapid over the whole province. The means for the whole month are very nearly normal, differences being generally under a hundredth of an inch.

Temperature—During the first week was high in the western districts and gradually fell towards the east, mean excess in South Behar being 4°, and defect in Assam 2·7°. In the second week it fell rapidly, especially in the western districts, where there was defect ranging up to 4·6° in North Behar. From being 4° above it fell to 3° below the normal in South Behar. Differences from the normal were much smaller for some days in the middle of the month, but on the occasion of the unsettled conditions towards the end of the month very cool weather prevailed, defect in Chutia Nagpur being 4·6°, in South Behar 3·9°, and in South-West Bengal 3·2°. Mean temperature for the month is normal in East Bengal, ·4° below in North Bengal, ·5° in South Behar, about 1° in Orissa, South-West Bengal and Assam, 1·6° in North Behar, and 1·9° in Chutia Nagpur. The highest temperature in South Behar was 110·6°, in South-West Bengal and North Behar slightly above 104°, and in Orissa and Chutia Nagpur above 103°, while in the other districts it was always under 100°.

Rainfall—Was generally deficient, except in North Bengal, during the early part of the month, but between the 20th and 24th unusually heavy rain fell in all districts with the result that the falls for the whole month are above the normal over the whole province except in the south-east corner, including the Sunderbuns, Chittagong, and Tipperah. The falls during the week beginning on the 20th expressed as percentages of the normal for each district give—South Behar 332, South-West Bengal 330, Chutia Nagpur 280, East Bengal 203, North Behar 192, North Bengal 128, and Orissa 74. Some of the heaviest falls in twenty-four hours during these days were—Jessore 9·9, Mankur 9·7, Jamtara and Jhalda 8·6, Jehanabad 8·4, Culna and Krishnagur 8·2, and Raneegunge 8 inches on the 23rd. On the 24th falls were lighter, generally under 4 inches, but Chittagong reported 9·3 and a few subdivisional stations in East Bengal 6 inches.

The falls for the month are very heavy in the neighbourhood of the Assam hills, and especially in the north-east corner of the province, Alipore Duar receiving 55, Cooch Behar 48, Mickilgunge 47, Fallacatta 45, Matabhanga and Buxa 44, Julpigoree and Dinhatta nearly 41 inches. Amounts decrease rapidly towards the south, only a few stations in that neighbourhood reporting more than 20 inches. Over the rest of the province falls are between 10 and 20 inches except in Chutia Nagpur, where they are generally about 8 inches. Over a strip of country stretching from the Hooghly district in a north-westerly direction, and including the western districts of South-West Bengal and part of South Behar along the course taken by the centre of the depression which began to form in the centre of Bengal about the 20th, relatively very heavy falls were received, the actual falls being between 15 and 20 inches, and in some cases above the latter amount. In the Sunderbuns and Chittagong and Tipperah falls were generally between 15 and 20 inches, and in the Chittagong Hill Tracts under 15 inches, but 34 inches fell at Cox's Bazar and 27 at Hurrishpore.

In the north-east districts excess was generally over 10 inches, the largest difference from the normal being 19·6 inches at Mickilgunge. Along the course taken by the centre of the depression excess amounts of about 10 inches are also recorded, these being chiefly in Burdwan, Bankoora, Rajshahye, Gya, Monghyr, and the Sonthal Pergunnahs. In the other districts, except Chutia Nagpur and the south-east corner, falls are from three to four inches above the normal, but small areas of deficient rainfall occur in the following districts:—Cuttack, Midnapore, Pubna, Bogra, and Maldah, the differences, however, being generally small. In Chutia Nagpur the fall is very nearly normal, and in East Bengal below the normal by amounts ranging up to 6 inches.

Meteorological Divisions.	January.	February.	March.	April.	May.	June.	Actual rainfall of first six months of 1890, expressed as a percentage of the normal fall for the period.
Orissa ...	24	5	216	20	99	124	107
South-West Bengal ...	98	Nil	39	75	87	141	104
East Bengal ...	184	4	70	122	102	89	94
North Bengal ...	98	Nil	26	155	81	132	113
North Behar ...	38	2	25	40	95	140	113
South Behar ...	Nil	5	63	80	95	183	139
Chutia Nagpur ...	Nil	Nil	120	1	65	132	100

Percentage table for June 1890.

Division.	District.	Normal district rainfall June.	Actual district rainfall June 1890.	Percentage of actual to normal rainfall.	Percentage excess (+), defect (−).
Orissa ...	Pooree	7·89	10·06	127	+ 27
	Cuttack	9·12	7 80	86	— 14
	Balasore	8·25	13·39	162	+ 62
South-West Bengal	Midnapore	9·59	15·04	157	+ 57
	24-Pergunnahs	9·83	12·09	123	+ 23
	Howrah	9·45	20·29	215	+115
	Hooghly	9·75	14·91	156	+ 56
	Burdwan	9·23	20·49	222	+122
	Bankoora	9·56	13·80	144	+ 44
	Beerbhoom	9·10	17·41	191	+ 91
	Nuddea	9·62	12·15	126	+ 26
	Khoolna	12·44	16·63	135	+ 35
	Jessore	12·10	14·74	122	+ 22
	Moorshedabad	9·05	11·93	132	+ 32
East Bengal ...	Chittagong	26·32	22·35	85	— 15
	Backergunge	18·66	16·79	90	— 10
	Noakholly	24·18	17·98	74	— 26
	Furreedpore	12·61	9·07	72	— 28
	Dacca	12·91	12·56	97	— 3
	Tipperah	17·21	14·07	82	— 18
	Mymensingh	17·42	20·49	118	+ 18
North Bengal ...	Pubna	11·32	10·50	93	— 7
	Bogra	13·11	16·07	123	+ 23
	Rajshahye	10·26	19·16	187	+ 87
	Maldah	10·60	11·26	106	+ 6
	Dinagepore	13·25	16·53	125	+ 25
	Rungpore	21·49	27·71	129	+ 29
	Cooch Behar	32·75	44·50	136	+ 36
	Julpigoree	29·12	40·82	140	+ 40
	Darjeeling	24·02	27·50	114	+ 14
North Behar ...	Purneah	12·98	20·3	156	+ 56
	North Bhagulpore	8·71	10·65	122	+ 22
	Durbhunga	8·00	11·22	140	+ 40
	Mozufferpore	7·98	8·46	119	+ 19
	Chumparun	8·81	12·81	154	+ 54
	Sarun	6·39	10·64	167	+ 67
South Behar ...	Shahabad	5·30	10·30	194	+ 94
	Gya	5·62	12·68	230	+130
	Patna	5·95	8·98	151	+ 51
	Monghyr	6·38	15·18	238	+138
	South Bhagulpore	7·77	9·98	128	+ 28
	Sonthal Pergunnahs	8·59	15·10	176	+ 76
Chutia Nagpur ...	Hazaribagh	7·90	11·03	140	+ 40
	Lohardugga	7·00	7·92	113	+ 13
	Singbhoom	8·01	9·04	113	+ 13
	Manbhoom	8·42	12·73	151	+ 51

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of June 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.							
			Averages for month.				Of month.			Rainy days.			Since 15th May 1890.	
	Highest observed during month.	Lowest observed during month.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of month above or below normal mean of month.	Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	103·4	73·1	90·4	80·2	85·3	—0·8	10·88	8·78	+2·10	15·2	11·9	+3·3	14·22	10 95
South-West Bengal	104·5	71·2	92·4	79·1	85·8	—0·9	14·25	10·11	+4·14	16·6	14·6	+2·0	18·36	13·86
East Bengal	94·5	69·8	87·4	77·5	82·4	0	15·25	18·21	—1·96	18·4	19·3	—0·9	23·15	22·64
North Bengal	97·8	68·6	88·4	76·7	82·6	—0·4	23·14	17·54	+5·60	20·3	16·8	+3·5	27·18	22·99
North Behar	104·3	70·4	92·3	77·7	85·0	—1·6	12·24	8·72	+3·52	14·9	10·2	+4·7	14·27	10·57
South Behar*	110·6	70·0	93·4	79·7	87·6	—0·5	12·29	6·71	+5·58	13·6	10·2	+3·4	13·83	8·30
Chutia Nagpur	103·5*	70·2*	90·1*	74·6*	82·4*	—1·9*	10·46	7·94	+2·52	14·4	13·2	+1·2	11·68	9·65
Assam	93·5	70·3	86·3	76·0	81·2	—1·0								

* Chyebassa not included.

Meteorological Office, Bengal ;
The 15th July 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Beng

he week ending Friday, the 11th of July 1890.

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Mean, 8 A.M.
Orissa.	Pooree	Pooree Gopalpore	29·618 29·605	29·630 29·627	— +·039	NW SW	7 401	89·7 89·2	5th July 5th ,,	75·6 75·6	7 & 8 July 8th ,,	98·8 89·0	79·1 79·1	83·0 86·1	— —0·9	83 81
		False Point ...	29·604	29·626	+·008	WSW & W	322·3	94·5	5th ,,	73·1	8th ,,	85·7	76·6	81·2	—2·3	76
	Cuttack	Cuttack ...	29·544	29·626	+·015	SW	112·0	94·9	5th ,,	74·3	8th ,,	87·3	77·8	82·3	+2·0	80
	Balasore	Balasore ...	29·533	29·592	—·015	SW	212·7	94·3	5th ,,	72·8	7th ,,	85·9	77·3	81·6	—1·6	78
South-West Bengal.	South-West Midnapore South 24-Pergunnahs	Saugor Island	29·567	29·593	—·013	WSW	552·0	88·2	5th ,,	76·0	6th ,,	84·8	79·4	84·1	—2·4	80
	Midnapore	Midnapore ...	29·433	29·583	—·023	S	119·5	90·3	6th ,,	75·1	6th ,,	90·0	76·9	83·5	—1·0	80
	24-Pergunnahs ... ... Howrah ... ... Hooghly	Calcutta ...	29·558	29·580	—·020	SW	99·4	89·5	5th ,,	75·7	6th ,,	86·9	76·6	81·8	—1·0	80
	Burdwan	Burdwan	29·455	29·555	—·043	SSW	109·6	93·7	9th ,,	77·4	6th & 9th July	92 1	78 3	85·2	+0·3	80
	Bankoora	Bankoora ...	29·249	29·546	—·030	W	100·4	95·1	6th ,,	76·1	9th ,,	89·7	77·4	83·6	—0·4	80
	Beerbhoom ... ... West Burdwan	Raneegunge	29·250	29·582	—·011	South-westerly	78·9	95·5	6th ,,	75·9	6th ,,	89·4	76·9	83·2	—0·8	81
	Moorshedabad	Berhampore	29·490	29·557	— ·050	Southerly	123·6	91·7	6th ,,	76·3	6th ,,	89·2	77·7	83·4	—0·6	80
	Nuddea	Krishnaghur...	29·515	29·563	—·029	South-easterly	143·6	91·8	6th ,,	75·3	6th ,,	89·4	77·1	83·3	—0·3	81
	Jessore ... ... Khoolna	Jessore ...	29·558	29·592	—·027	Southerly	82·7	89·7	7th ,,	76·4	11th ,,	87 8	78 0	82·9	—1·4	81
	Chittagong	Chittagong	29·610	29·691	+·017	SSE	163·5	86·1	8th, 9th & 10th July	67·0	11th ,,	85·0	73·5	78·7	—2·1	78
	Chittagong Hill Tracts	Demagiri ...	Observations not received.													
East Bengal.	Backergunge	Barrisal ...	29·602	29·614	—·010	Southerly	134·4	87·3	5th July	75·9	5th & 6th July	85·5	77 0	81·3	—0·1	79
	Noakholly	Noakholly ...	29·610	29·654	—·010	SW	203·8	85·5	5th & 8th July	73·8	5th ,,	84·5	75·7	80·1	—0·8	78
	Furreedpore	Furreedpore	29·566	29·606	—·023	Southerly	155·7	88·0	7th ,,	76·4	6th ,,	85·7	77·8	81·8	—0·9	80
	Dacca	Dacca ...	29·572	29·595	—·041	S	220·3	87·1	9th ,,	74·7	5th & 11th July	85·7	76 2	81·0	—2·8	80
	Commillah	Commillah ...	29·591	29·627	—·023	SE	109·4	87·4	10th ,,	73·8	5th ,,	85·8	75·7	80·8	—0·7	78
	Mymensingh	Mymensingh	29·544	29·602	—·042	SE	147 0	86·7	7th ,,	75·0	5th ,,	85·1	77 4	81·3	—1·1	78
North Bengal.	Bogra	Bogra ...	29·508	29·571	—·024	South-easterly	117·1	90·3	5th ,,	75·6	6th ,,	86·2	77·5	82·9	+0·1	81
	Pubna	Serajgunge ...	29·540	29·587	— ·039	Southerly	115·3	90·1	5th ,,	76·2	5th & 6th July	86·9	77·2	82·1	—0·8	78
	Rajshahye	Rampore Beauleah.	29·404	29·564	—·031	South-easterly	146·5	90·8	5th & 6th July	74 6	6th ,,	87·3	77 5	82·4	—1·2	81
	Maldah	Maldah ...	29·467	29 555	—	E	71·7	97·4	6th ,,	77·7	11th ,,	99·7	78·7	84·2	—	82
	Dinagepore	Dinagepore ...	29·451	29·571	—·068	E	119·6	89·1	6th ,,	78·1	6th ,,	87·7	79·1	83·4	—0·3	80
	Rungpore	Rungpore	29·477	29·602	—·047	ESE	96·6	90 3	10th ,,	74·7	5th ,,	88·1	76·7	82·4	—0·9	80
	Julpigoree ... ... Cooch Behar	Julpigoree ...	29·208	29·586	—·036	F	F	88·4	10th ,,	75·1	7, 8, 10, & 11 July	85·7	75·4	80·6	—1·5	78
	Darjeeling Hill Tracts ...	Darjeeling ...	22·837	—	—·045	ENE	74·7	68·1*	6th ,,	56·1	10th ,,	64·4	67·5	61·0	—0·7	61
North Behar.	Purneah ... ... North Bhagulpore	Purneah ..	29·425	29·552	—·048	ESE	103·2	89·2	5th & 7th July	70·4	11th ,,	88·3	78·3	83·8	—0·9	81
	Mozufferpore	Mozufferpore	29·339	29·519	—	E	196·8	92·3	7th ,,	76·2	9th ,,	85·2	79·7	84·0	—	81
	Durbhunga	Durbhunga ...	29·378	29 544	—·053	Easterly	179·7	91·9	7th ,,	77·3	11th ,,	85·5	78·3	83·4	—0·8	81
	Chumparun	Motihari ...	29·317	29·544	—·040	ESE	243·0	92·2	5th & 7th July	76·9	8th & 10th July	89·5	76·0	83·8	+0·1	80
	Sarun	Chupra ...	29·329	29·519	—·055	Variable	167·5*	92·3	5th ,,	72·7	8th ,,	87·9	78·0	83·0	—1·7	81
South Behar.	Shahabad	Dehree Buxar Arrah	29·252 29·291 29·327	29·557 29·634 29·632	—·018 —·040 —·041	WSW W Variable	129·8 245·1 87·4	92 8 94·0 93·4	5th ,, 5th ,, 5th ,,	70·9 70·7 77·6	10th ,, 6th ,, 6th, 8th & 9th July	86·7 89·1 86·6	76·9 74·1 78·0	81·8 82·1 84·6	—1·7 —1·7 —1·5	82 82 85
	Gya	Gya ...	29·166	29·543	—·039	W	115·1	99·0	5th ,,	75·8	8th ,,	92·8	77·8	82·8	—2·2	76
	Patna	Bankipore ...	29·336	29·510	— 070	E & W	104·0*	88·2	7th ,,	78·2	6th, 8th & 9th July	86 2	79·3	83·8	—1·3	81
	South Bhagulpore ... Monghyr	Bhagulpore ...	29·371	29·533	—·051	Calm & W	63·7	91·7	6th ,,	77·0	11th ,,	86·5	76·7	83·6	—0·4	82
	Sonthal Pergunnahs ..	Deoomka ...	29·051	29·546	—·042	S	121·3	92·6	6th ,,	75·0	5th ,,	88·1	76·7	82·4	—0·6	81
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·506	29·567	—·037	W	278·8	86·5	5th & 6th July	71·7	6th ,,	81·8	73·9	77·4	—3·1	78
	Lohardugga ... ... Manbhoom	Ranchee ...	27·451	29 568	—·030	Variable	137·1	87·5	5th ,,	70·9	8th ,,	82·8	71·8	77·3	—1·1	78
	Singbhoom	Chyebassa ...	28·812*	29·577	—·002	WSW	75·6	93·4	6th ,,	74·2	10th ,,	88·2	76·8	82·5	—1·8	78
Assam.	Assam	Sibsagar ...	29·316	29 580	—·030	SE		90·6	5th & 9th July	75·5	10th ,,	85·4	77·4	83·8	—1·0	78
		Dhubri ...	29·482	29·600	—·042	SW	150·9	88 2	5th ,,	76·8	8th ,,	85·8	77·8	81·8	—1·0	78
		Silchar ...	29·349	29·554	—·024	Calm		90·5	9th & 10th July	75·5	7th & 8th July	87·4	76·1	81·8	—1·8	78

Meteorological Division.	District.	Representative station.	DISTRICT OBSERVATIONS. Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Rainfall. Of week. Mean for district.	Rainfall. Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Rainfall. Since 1st of month. Normal mean.	Rainfall. Since 1st of month. Variation.	Rainfall. Since 15th May 1890. Mean for district.	Rainfall. Since 15th May 1890. Normal mean.	Rainfall. Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.
Orissa.	Pooree	Pooree Gopalpore	9·3 6·7	2·50 0·77		2·52		3·75			13·88			4·1
		False Point ...	10·0	3·11										
	Cuttack	Cuttack ...	10·0	1·73		2·03		4·15			15·52			4·0
	Balasore	Balasore ...	9·1	0·61	1·59	2·42	3.41	3·73	—0·32	20·48	14·71	—5·77	5·7	4·1
South-West Bengal.	South-West Midnapore South 24-Pergunnahs	Saugor Island	9·9	5·22	3·31	2·88	3·96	4·70	—0·74	20·85	16·73	+4·12	5·3	4·4
	Midnapore	Midnapore ...	9·9	1·54	2·07	2·92	3·57	4·50	—0·93	24·02	15 91	+8·08	4·3	4·1
	24-Pergunnahs ... ... Howrah ... ... Hooghly	Calcutta ...	8·3	4·56	2·93	2·50	6·07	3·81	—0·14	22·96	16 35	+6·61	4·9	4·7
	Burdwan	Burdwan	9·0	6·14	4·64	3·58	4·17	3·49	+0·68	27·29	15·01	+12·28	4·7	4·3
	Bankoora	Bankoora ...	7·9	3·76	3·76	2·85	4·57	4·72	—0·15	23·25	16·83	+6·42	6·3	4·7
	Beerbhoom ... ... West Burdwan	Raneegunge ...	8·3	5·72	5·0	3·16	6·21	4·27	+1·94	25·21	16·34	+8·87	6·8	5·0
	Moorshedabad	Berhampore ...	9·1	1·68	3·70	2·76	4·09	4·42	—0·33	18·38	16·69	+1·69	5·7	4·2
	Nuddea	Krishnaghur ...	8·4	1·93	3·31	3·01	3·74	4·16	—0·42	19 75	17·40	+2·35	5·4	4·1
	Jessore ... ... Khoolna	Jessore ...	9·7	2·90	3·16	2·50	3·85	3·74	+0·11	23·17	19·43	+3·74	5·8	4·8
	Chittagong	Chittagong ...	6·9	16·97	12·46	6 85	13·98	10·06	+3·92	43·78	44·98	—1·20	6·5	5·6
	Chittagong Hill Tracts	Demagiri ...				3 84		5·92			29·63			5·2
East Bengal.	Backergunge	Barrisal ...	9·4	3·12	3·75	3·98	5·06	6·17	—1·11	27·42	29·29	—1·87	6·8	5·5
	Noakholly	Noakholly ...	4·1	5·80	6 08	5·09	7·87	8 08	—0·71	35·17	40·15	—4·98	7·0	5·5
	Furreedpore	Furreedpore ...	6·7	1·20	2·00	2·79	2·60	3·84	—1·24	15·21	20·74	—5·53	5·0	4·5
	Dacca	Dacca ...	9·0	6·22	6·36	2·77	6·53	4·48	+2·35	28·59	21·76	+6·83	6·8	4·5
	Commillah	Commillah ...	7·4	4·47	3·28	3·01	5·55	4·52	+1·03	26·44	25·21	+1·23	5·8	4·8
	Tipperah	Mymensingh ...	6·1	4·36	3·92	3·53	4·38	4·91	—0·53	31·56	27·36	+4·20	5·8	4 2
North Bengal.	Mymensingh	Bogra ...	6·4	2·30	2·30	3·70	2·46	5·08	—2·62	23·18	22·58	+0·60	6·0	4·0
	Bogra	Serajgunge ...	7·6	2·08	2·52	3 01	2·75	4·32	—1·57	19·41	19·29	+0·12	5·5	4 0
	Pubna	Rampore Beauleah	3·9	6 42	4·48	3·12	4·64	4·58	+0·06	27·32	19·19	+8·13	6·0	4·1
	Rajshahye	Maldah ...	5·4	2·13	1·98	3·44	2·14	5·10	—2·96	15·83	19·75	—3·92	5·5	4·4
	Maldah	Dinagepore ...	9·4	5·81	3·55	3·20	3·65	5·15	—1·50	23·05	22·84	+0·81	5·8	4·2
	Dinagepore	Rungpore ...	4·3	1·78	2·21	4·51	2·98	6·34	—3·36	35·23	35·27	—0·04	6·0	4·4
	Rungpore	Julpigoree ...	3·7	11·03	9·81	6·13	11·59	9·16	+2·43	59·26	49·00	+10·26	6·6	4·9
	Julpigoree ... ... Cooch Behar	Darjeeling ...	9·9	17·11	15·95	9·85	19·78	15·47	+4·31	56·61	50·53	+6·08	7·0	5·8
	Darjeeling Hill Tracts	Purneah ...	8·7	5·58	6·58	3·48	6·96	5·93	+1·03	25·38	20·46	+4·92	4·6	4·0
North Behar.	Purneah ... ... North Bhagulpore	Mozufferpore ...	6·9	3·32	4·43	2·89	4·43	4·88	—0·45	14·57	13·69	+0·88	5·7	3·1
	Mozufferpore	Durbhunga ...	8·1	4 91	3·17	3·26	3·48	5·27	—1·79	15·54	14·65	+0·89	5·0	3·2
	Durbhunga	Chumparun ...	8·9	5·86	5·54	3·93	5·87	5·68	+0·19	22·24	15·72	+6·52	5·5	3·1
	Chumparun	Sarun ...	8·9	5·86	5·54	3·93	5·87	5·68	+0·19	22·24	15·72	+6·52	5·5	3·1
	Motihari	Chupra ...	8·3	1·60	2·75	3·44	2·93	5·20	—2·28	15·13	12·75	+2·37	4·0	3·7
	Sarun	Dehree Buxar Arrah	9·7 9·3 9·9	1·85 1·23 3·94	3·43	2·89	3·03	4·02	—0·40	14·[illegible]	9·88	+4·66	5·8	3·8
South Behar.	Shahabad	Gya ...	9·4	10·06	7·61	2·47	8·08	4·16	+3·92	22·18	11·18	+11·00	5·5	3·5
	Gya	Bankipore ...	10·0	2·81	2·91	2·74	3·03	4·63	—1·60	12·82	13·31	+0·51	4·5	3·8
	Patna	Bhagulpore ...	9·3	3·60	1·44	2·44	1·68	4·15	—2·47	16·49	13·85	+3·64	4·4	4·1
	South Bhagulpore ... Monghyr	Deoomka ...	8·7	5·14	3·19	2·83	3·36	4·68	—1·32	21·34	16·20	+5·14	5·7	4·4
	Sonthal Pergunnahs...	Hazaribagh ...	10·0	3·39	2·89	2·74	3·73	4·91	—1·18	16·07	14·54	+1·53	5·2	4·3
Chutia Nagpur.	Hazaribagh	Lohardugga	9·1	1·94	2·96	2·60	3·42	4·39	—0·96	12·64	13·62	—0·98	5·3	5·1
	Lohardugga ... ... Manbhoom	Ranchi ...			1·73	2·75	3·25	4·18	—0·93	16·99	13·98	+3·01	6·5	4·7
	Singbhoom	Chyebassa ...	9·1	2·63	2·80	2·96	4·87	3·80	+1·17	17·10	14·69	+2·41	4·0	4·1
Assam.	Assam	Sibsagar ...	9·7	7·47										
		Dhubri ...	9·7	2·04										
		Silchar ...	9·6	1·35										

* Mean of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the ti
The humidity of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbe
The numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the ye
stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
sening cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
years. The means of the districts are the numerical average of the gainfall return received in the districts, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of July 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 5th July.	Sunday, 6th July.	Monday, 7th July.	Tuesday, 8th July.	Wednesday, 9th July.	Thursday, 10th July.	Friday, 11th July.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	.....	.....	0·32	0·30	.....	1·39	0·04	4	2·14	10·64	2·98	21·77	12·44
		Khurdah ...	.....	0·65	0·98	0·39	0·13	0·62	1·59	6	4·36	13·74	3·62	29·79	15·53
		Banpur ...	.....	0·11	0·04	0·03	1·36	.....	.....				3·79		11·81
		False Point ...	.....	0·05	0·70	0·73	.....	1·03	0·60	5	3·11	6·13	4·31	18·84	15·73
		Gop ...											?		?
		Satpara ...	.....	.....	0·05	0·40	0 05						?		?
		Pipli ...											?		?
	Cuttack ..	Jagatsingpore ...	... ..	.....	0.65	1·30	1·10	0·50	0·70	5	4·25	8·25	3·59	18·43	12·25
		Banki ...	.....	... ..	0·28	0 50	.....	0·88					4·71		15·31
		Cuttack ...	... ...	.....		0·96	0·03	0·71	0·20	4	1·90	9·28	3·97	24·74	18·28
		Kendrapara ...	.....	.....	0·04	0·63	.....	0·47	0·53	5	1·71	6·19	3·75	14·83	14·53
		Jajpore ...	... ..	.....	... ..	0·77	0·43	0·47	0·23	4	1·90	6·12	4·78	20·60	17·14
		Dharmsala ...	.....	.... .	1·15	0·15	0·40	0·35					?		?
		Salepore ...	.....	.....	... ..	1·40	.....	0 80	0·15	3	2·35	6·99	?	20·94	?
	Balasore ...	Chandbali ...	.....	0·07	.....	0·20	0·22	0·72	0·50	5	1·71	4·54	2·90	17·09	13·26
		Bhuddruck ...	.....	.....	.....	0·30	... .	.....	1·67	2	1·97	4·23	3 53	22·65	15·52
		Sorah ...	.....	.....	.....	0·60	.....	0·60	... ..	2	1·20	3·00	3·39	19·18	13 32
		Balasore ..	0·03	0·15	0·08	.....	.....	0·04	0·25	5	0·55	2·88	3·77	22·87	15·30
		Jellasore ..	.....	1·30	... ..	.....	.....	... .	0·18	2	1·48	2·59	4·39	20·55	14·08
		Baripodah ...	0·20	0 20	0·22	.....	0·45	1·35	0·12	6	2·60	3·20	4 36	20·54	16·08
South-West Bengal.	Midnapore ...	Contai ...	... .	0·39	1·98	.....	.....	.....	0·09	3	2·46	2·93	4·38	22·99	16·18
		Saugor Island	0·05	1·73	2·71	0·03	.....	0·18	0·52	6	5·22	6·24	4·54	21·62	17·06
		Tumlook ...	0·20	0·50	.....	... ..	... ..	1·00	0·30	4	2·00	3·50	2·01	25·20	14·57
		Midnapore ...	.....	1·20	... ..	0·03	.....	... ..	0·19	3	1·42	3·11	4·77	25·92	15·49
		Ghattal ...	0·02	0·89	0·09	0·06	.....	1·68	0 04	6	2·78	4·09	5·81	29·05	17·76
		Kukrahaty ...	0·12	0·64	... ..	...	0·26	0·53	0·38	5	1·93	2·34	?	14·65	?
		Garbetta ...	0·04	0·13	0·82	0·12	0·45	0·18	0·19	7	1 93	2·37	?	17·67	?
	24-Pergunnahs	Diamond Harbour ...	0·02	0·02	0·06	.....	0·22	0·15	0·57	6	1·94	2·70	4·98	17 89	16·97
		Canning Town	0·15	1·15	.....	.....	0·20	1·10	1·14	5	3·74	4·49	?	22·94	?
		Alipore Jail ..	0·14	1·88	0·15	..	0·04	3·82	0·39	6	6·42	6·63	4·16	24·65	16·96
		Barrackpore...	.....	1 05	0·40	.....	.....	1 30	0·05	4	2·80	3·53	3·24	19·83	16·02
		Dum-Dum ...	... ..	0·56	0·02	... ..	.....	1·82	0·42	4	2·82	3·16	3 60	19·60	16·38
		Baraset ...	... ..	0·10	0·91	. ...	.....	1·12	0·81	4	2·94	3·58	3·30	20·77	15·78
		Busseerhat ...	0·40	.....	0·40	... ..	.....	0·68	0·64	4	2·07	4·27	3·81	21·67	18 72
	Howrah ...	Howrah ...	0·07	1·42	0·10	... ..	0·10	2·70	0·35	6	4·74	4·06	3·85	21·41	15·99
		Ooloberiah ...	0·03	1·23	0·19	....	0·10	0·13	0·21	6	1·94	2·40	4·73	32 82	16·36
	Hooghly ..	Serampore ...	.....	0·80	0·35	.....	0·09	1·05	0·12	5	2·50	3·40	3·40	20·30	15·29
		Hooghly ...	.....	0·42	0·03	... ..	0·11	0·43	0·05	5	1·04	1·55	3·38	21·01	15·23
		Jehanabad ...	0·10	0·07	.....	....	0 10	1·68	0·25	5	2·20	3 27	4 55	24·36	16·65
	Burdwan ...	Culna ...	.....	.....	1·17	.....	0·78	0·07	0·22	4	2·24	2·43	3·53	23·15	14·20
		Burdwan ...	... ..	0·14	0·57	..	2·80	2·10	0·53	5	6·14	6·19	3·47	20·98	14·58
		Cutwa ...	2·78	0·26	... ..	0 39	0·17	0·14	....	5	3 74	3·90	3·48	28·75	16·21
		Raneegunge ..	0·16	0·57	0·53	0·01	1·13	2·37	0·95	7	5·72	6·78	4·33	26·15	14·83
		Mankur ...	0·29	0·42	. ....	0·07	1·58	1·26	1·15	6	4·37	4·75	?	25 88	?
	Bankoora ...	Bankoora ...	.....	0·76	0·02	0·22	0·14	1·30	0·31	6	3·75	4·70	4 16	21·47	15·79
		Bishenpore ...	0·20	0·33	0·05	1·19	0 84	0·49	0 29	7	3 48	3·73	4·08	25·74	16·88
		Mahara ...	0·20	0·76	0·29	0·04	3·38	0·90	0·83	7	6·37	7·08	5·18	30·52	16·21
		Khatra ...	0·15	0·12	0·10	.....	...	0·25	0·30	5	1·42	2·76	4·84	15·23	18·35
		Indas ...	0·04	2·18	1·60	0·11	3·69	1·16	1·73	7	9·91	10 20	?	29·19	?
		Kotalpore ...	...	0·60	0·33	0·27	3·15	2·11	0·43	6	6·99	7·20	?	30·01	?
		Anda ...	0·60	0·50	.	2·00	1·14	0·60	0·40	6	5·24	6·54	?	22 35	?
		Gangajalghati	..	2·25	0·49	..	3·79	0·30	0·12	5	7·25	7·25	?	33·44	?
		Kaipore ...	0·82	2·15	0·93	0·45		0·85	... ..	5	5·50	7·05	?	23·72	?
		Sonamukhi ...	....	1·18	.....	.....	0·79	3·00	1·62	4	6·68	7·16	?	23·87	?
	Beerbhoom ..	Bh. Soory ...	0·16	3·17	0·05	2·97	0·29	2·16	0·21	7	9·01	9·16	4 89	20·61	17·04
		Hetampore ...	0·54	0·60	0·87	0·15	0 40	0 80	0·05	7	4·11	5·19	4 49	23·84	17·52
		Rampore Haut	0·45	0·50	.....	0·30	2·34	0·15	0 30	6	4·31	4·68	3·85	24·14	15 89
		Bolpore ...	0·35	0·22	0·22	... ..	.. ..	2 30	0 35	5	3·00	3·89	?	23·24	?
		Murarai ...	1·02	.....	1·80	0·80	1·75	0·65	.....	5	6·02	7·21	?	19·25	?
	Nuddea ...	Ranaghat ..	1·30	0·40	.....	.....	0·10	0·05	0·16	5	2·61	3·34	3·82	20 79	16·29
		Kishnaghur ...	..	0·56	0·15	0·02	0·90	0·22	0·11	6	1·96	2·44	4·15	21·92	16·67
		Chooadanga ...	.. ..	1·80	.....	0·03	2·22	0·75	0·21	5	4·81	4·86	4 48	18 00	18·27
		Meherpore ...	.....	0·73	.....	... ..	1·40	0·30	0·42	4	2 85	3 30	3·95	17·42	16·94
		Kooshtea ..	0·17	2·32	0·04	0·28	0·25	0·74	0·50	7	4·30	4·73	4·39	19·99	19·75
	Khoolna ..	Satkhira ..	0·39	0 09	0·06	0·37	0·22	0·08	0·33	7	1·54	2·02	4·31	23·94	20·61
		Bagirhat ...	0·32	0·43	0·09	.. ...	0·05	0·81	.....	5	2·60	3·60	4·68	29·99	22·19
		Khoolna ...	0·35	0 28	1·20	0 16	1·70	0·96	0·36	7	5·07	5·04	3·67	25·01	19·39
		Nakipore ...	0 81	0·22	0·56	.. ...	.....	0·83	... .	4	2·42	2·92	?	20·21	?
		Ramalp ...	0·51	0·27	0·46	.....	2·18	1·07	0·21	6	4·70	6·06	?	27·11	?
	Jessore ...	Narail ..	0·45	... ..	0·19	0·23	0·49	0·[illegible]	0·65	6	2·07	3·16	2 80	24·45	16·98
		Jessore ...	0·12	...	.....	0·03	2·50	0·[illegible]	0·12	5	2·90	3 53	3·56	25·47	19·77
		Jhenidah ...	.. ...	1·62	0·76	0·11	3·32	0·21	0·22	6	6·24	6·24	3·33	18·50	19·03
		Magoorah ...	0·15	0·09	... ..	0·10	2·45	0·05	0·61	6	3·45	4·02	3·41	20·23	19·31
		Bongong ...	0·70	.....	0·08	.....	.....	0·35	0·30	4	1·43	1·98	4·13	17·10	17·52
	Moorshedabad	Kandi ...	....	1·10	.....	.....	.....	0·40	0·40	3	1·90	2·20	4·78	16·82	16·89
		Berhampore ...	... ..	0·63	0·06	0·25	0·15	0·33	0·28	6	1·68	1·82	4·19	15·12	16·57
		Lalbagh ...	.....	0·62	0·05	0·10	0·96	0·70	1·20	6	3·73	3·82	4·01	16·31	15 54
		Azimgunge ...	.....	0·50	0·07	.....	1·70	0·95	1·15	5	4·37	4·73	3·86	22·76	16·70
		Jungipore ...	0·47	0·09	0·09	0 22	0·18	0·84	0·40	7	2·39	2·84	4·65	15·93	16·38
		Lalgola ...	0·65	4·02	0·20	0·40	0·75	0·50	1·10	7	4·12	9·02	5·03	25·89	18·05
		Jiagunge ...	.....	0·47	0·09	0·13	1·81	0·96	1·11	6	4·06	4·30	?	21·21	?
		Akhriganj ...	0·02	0·49	1·36	0·24	1·85	1·63	1·18	7	6 77	7·00	?	23·43	?
		Patkabari ...	0·65	1·00	0·10	.....	0·20	0·20	1·20	6	3·35	3·90	?	18·40	?
East Bengal	Chittagong ...	Cox's Bazar ...	1·11	0·25	1·80	0·40	1·30	1·44	1·05	7	7·33	9·86	13·45	51·16	53·26
		Chittagong ...	1·38	.....	1·17	2·30	0·70	0·56	2·68	6	17·59	18·09	6·67	30·35	36·96
		Kutubdia ...	1·82	0 53	1·31								?		?
		Sankanya ...	4·15	.....	0·94	0·50	0·50	0·50					?		?
	Chittagong Hill Tracts	Rangamati ...	0·65	0·41	0·46	1·55	.....	0·63	0·12	6	3·86	5·03	6·50	24·30	29·93
		Rama ...	2·40	0·70									5·34		29·49
	Backergunge ...	Patuakhally ...	0·10	1·05	.....	0·73	0·61	0·10	0·42	6	3·01	3·53	7·11	26·86	33·23
		Pirozepore ...	0·44	3·90	0·51	0·21	0·42	1·07	0 24	7	4·59	5·27	5·43	28·82	35·29
		Barrisal ...	0·79	1·50	0·15	0·35	0·20	0·23	0·10	7	3·61	6·51	5·11	30·96	35·75
		Bhola ..	0·72	0·71	0·92	0·27	0·92	0·20	0·05	7	3·79	4·93	7·00	33·43	37·07

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of July 1890 —contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 5th July.	Sunday, 6th July.	Monday, 7th July.	Tuesday, 8th July.	Wednesday, 9th July.	Thursday, 10th July.	Friday, 11th July.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
ST BENGAL —concld.		*Gournaddi* ...	0·38	0·44	0·36	.....	0·27	0·25	0·16	6	1·86	3·85	?	18·73	?
		Bauphal ...	0·12	1·23	0·23	0·23	1·00	0·49	0 07	7	3·37	4·77	?	24·20	?
	Noakholly ...	Noakholly ...	0·85	0·61	0·38	0·93	1·15	0·72	1·03	7	5·67	6 85	7 70	30·03	38·54
		Fenny ...	0·87	0·26	1·15	1·85	1·20	0·50	0·65	7	6·48	7·87	8·36	32·38	40·70
		Harishpore ...	0·15	1·50	0·10	.....	1·10	0·62	0 62	6	5·34	6·77	?	31 62	?
		Ramganj ...	2·00	0·30											
	Furreedpore	Madaripore ..	1·21	.....	.....	0·28	.....	0·66	0·45	4	2·00	3·53	4·03	16·02	21·62
		Furreedpore..	0·03	0·03	0·38	0·07	0·15	0·12	0·25	7	1·03	1·69	3·08	14·28	21·52
		Goalundo ..	.....	0·11	0·42	0·20	.....	1·65	.....	4	2·38	2·60	3·50	15·40	19·06
	Dacca ..	Munshigunge	2·03	.....	3·50	0·32	0·31	0·33	0·45	6	6·94	7·75	4·32	31·98	25 04
		Dacca ..	3·72	2·08	0·12	0·28	0·40	1·57	0·40	7	8·63	8·73	3·81	28·25	21·48
		Narainsunge	3 00	2·46	0·20	0·34	0·28	0·16	1·12	7	7·56	7·81	5·43	30·60	22·96
		Manickgunge	0·37	0·34	0·72	0·18	0·15	0·34	0·21	7	2·31	3 04	3 75	24·35	17·43
		Joydebpore	0·67	0·61	0·15	0·46	0·88	0·02	0 04	7	3·43	4·01	?	27·54	
	Hill Tipperah	Agartola ...	0·28	...	0·60	0·35	0·37	0·14	0·27	6	2·01	5·08	3·78	20·44	23·74
	Tipperah ...	Comilla* ...	1·25	0 21	0·30	0·35	1·05	0·33	1·14	7	4·59	7 15	5·30	27·44	28 97
		Chandpore ...	2·00	.....	0·30	...	1·00	.....	0·15	4	3·45	4·77	5·38	26·25	25 42
		Brahmunberia	1·62	0·25	0·04	0·40	0 44	.....	0·30	6	3·05	4·27	3·60	22·46	23·95
		Ramchandrapore ...	2·70	3·52	0·86	0 28	0·85	0·43	0·42	7	9·06	13·32	?	32·76	?
		Nasirnagar ...	.....	0·55	0·10	.....	.....	.....	.....	2	0·65	1·15	?	17 97	?
		Daudkandi ..	0·70	.....	.....	.....	.....	.....	.....	1	0·70	1·72	?	14·46	?
		Kasba ..	0·26	4·02	2·40	.....	1·45	.....	2·22	3	6·07	10·79	?	34·25	?
		Laksham ..	.....	.....											
	Mymensingh..	Kishoreegunge	0·72	.....	0·47	0·74	.....	0·21	.....	4	2·14	3·48	4·72	29·61	28 68
		Atia (*Tangail*)	0·73	0·46	.....	...	1·54	0·22	0 13	5	3·08	3·23	3·36	25·93	20 15
		Mymensingh	1·06	1·51	0·09	0·25	0·82	0·22	0·06	7	4·41	4·75	5 45	31·72	30·61
		Jamalpore ..	0·12	1·02	0·62	0·26	0·03	...	0·55	6	3·20	3·43	1·60	31·84	28·01
		Netrokona ...	3·80	0·23	1·03	0·38	0·43	0·44	0·14	7	6·75	7·00	6·32	38·08	31·72
		Subornakhally	1·63	1·15	.....	.....	.. ..	.....	0·01	3	2·82	4 45	?	20 19	?
		Durgapore ...	3·20	.....	1·00	0·60	0 20	0·40	0·40	5	1·72	1·85	?	27·34	?
		ShereporeTown	0·34	0·82	.....	0·26	.....	0·10	0·20	3	1·89	1·89	?	28 62	?
		Dewanganj ..	0·90	0·19	.....	... ..	.....	0 80	.....						
NORTH BENGAL.	Pubna ...	Pubna ...	.....	1·06	0·20	0·06	0·22	0·15	0·61	6	2·30	2·62	4·31	17·46	18·87
		Serajgunge ...	1·34	1·15	.....	0·01	. ...	0·11	0·12	5	2·73	2 87	4·53	21·31	19 69
	Bogra ...	Sherepore ...	0·79	0·08	0·09	0·05	0·16	0 50	0·67	7	2·04	3·41	5·31	23·32	22·97
		Nowkhilla ...	0·24	0·74	0·19	....	0·64	0·24	..	5	2·05	2·21	3·99	20·25	20 70
		Bogra ...	0·07	0·59	0·56	0·21	0·16	0·35	0·37	7	2·31	2 31	5·54	20·15	25·18
		Panchbibi ..	.....	0·16	.....	0·21	0·38	0·90	0·24	5	1·89	1·89	5·45	28·92	21·53
	Rajshahye ...	Beauleah ...	0·06	1·68	0·22	0·21	2·59	0·24	1·45	7	6·45	6·81	5·78	27·32	17·56
		Nattore ...	0·35	2·03	0·35	0·02	0 20	0·66	0·65	7	4 26	4·29	5·08	32·37	18·95
		Naogaon ...	0·22	.. ...	.....	....	1·80	0·31	0·39	4	2·72	2·82	3 88	22·29	21·10
		Lalpore ...	1·28	.. ...	.....	.....	1·00	0·30	0·32	4	2·90	3·45	?	11·86	?
		Manda ...	1·07	0·50	1·02	0·53	1·03	0·10	.. ...	6	4 25	4·25	?	14·75	?
	Maldah ..	Maldah ...	.....	0·02	.....	0·94	0·88	0·24	0·05	5	2·13	2·25	5·06	17·00	18 63
		Chanchal ...	0·04	0·07	.....	0·26	1·26	0 05	0·15	6	1·83	2·02	5·15	14·74	20 84
		Gajol ...	... ..	0·07	.....	0·20	0·75	0·27	0·19	5	1 18	1·18	?	17·01	?
		Sibganj ...	.....	0·50	.....	1·98	1·62	0 72	0·55	5	5·37	5·59	?	24 48	?
	Dinagepore ..	Mohadebpore	0·52	0·10	1·44	0·82	0·29	0·20	0·69	7	4·06	4·06	4·06	20·99	20 63
		Churamon ..	.....	0·13	.....	0·66	0·24	0 07	0·97	5	2·04	2·25	5·14	22 74	20·12
		Raigunge ...	... .	0·64	.....	0·18	1·15	0·85	1 96	5	4·78	4·78	5 26	24 54	23·40
		Dinagepore .	0·30	0·84	.....	2·00	0·19	0·10	0·05	6	4·43	4·61	5·65	27·70	27 18
		Baloorchar	0·24	0·17	.....	1·24	0 14	0·23	0·15	6	2·43	2·59	5·61	22·53	22·38
		Thakoorgaon	0·50	0 10	0·13	0·69	0·23	0·08	0·68	7	2·77	3·60	?	36·18	?
	Rungpore ..	Bhawanigunge (*Gyabandi*)	0·65	0·65	0·10	0·20	.....	0·32	0·15	6	2·07	2·32	4·70	30·67	27·18
		Rungpore ...	0·30	0·32	0 36	0·23	0·04	0 07	0·14	7	1·46	2 67	7·05	30·72	34 14
		Kurigram ...	0·27	0·06	0·26	0·03	. ...	0·03	...	5	0·65	1·35	6·22	35·95	38·12
		Nagdogra (*Nilphamari*).	....	0·77	0·51	1·04	1·15	0·25	0·33	6	4·65	5·56	6·71	13·56	11·67
		Ulipore ...	.....	0·48	0·16	. ...	.....	.....	.....	2	0·64	0·87	?	29 81	?
	Julpigoree ...	Julpigoree ...	0·52	0·26	4·31	2·61	1·80	1·74	0·06	7	11·30	13·09	12·15	57·26	48·21
		Alipore Dooar	2·34	2·05	4·70	2·50	0·70	1·57	.. ...	6	11 86	16·80	?	75·16	?
		Fallacotta ...	3·31	4·11	5·78	2·47	1·20	0·72	0·05	7	17·64	20·36	?	67·26	?
		Debiganj ...	.....	0·43	1·66	1·77	0·48	0·19	0·22	6	4·75	5·24	?	44·88	?
	Cooch Behar.	*Bhagatpore (Nayrakatta).*	4·83	0·15	2·19	1·30	0·23	1·99	1·07	7	11·78	21·44	5·73	57·59	46 55
		Dinhatta ..	0·05	0·84	0·45	0·32	0 02	0 43	0·01	7	2·37	3·90	9 08	46 55	45·63
		Cooch Behar..	0·35	5·71	1·66	0·53	0·13	0·78	... ..	6	9·32	11·85	8·01	64 47	57·70
		Mekliganje...	0·53	1·20	1·89	3·85	3·57	0 13	... ..	6	11·17	12·84	0·91	62·39	44·94
		Matabhanga...	7·57	4·19	2 78	0·05	0·24	0·03	0·02	7	14·88	17·06	22·65	45·65	59 71
			0·31	3·32	4·33	3·22	2·04	2·57	0·20	7	10·08	24·12	15·96	74·61	81 55
	Darjeeling Hill.	Buxa ...	1·80	2·65	1 42	1·67	3·19	5·10	0·15	7	15·98	20·69	12·21	59·57	49 16
		Silliguri ...	1·87	1·15	1·77	3·10	2·74	4·00	2·48	7	17·11	18·19	11·07	52·96	40·12
		Darjeeling ...	0·74	0·64	1·45	2·53	4·24	3·54	1·50	7	14·04	10·14	?	30·40	51·28
		Kalimpong ..	1·02	2·40	1·70	1·30	4·42	4·74	3 50	7	18·98	21·38	?	69·15	?
		Kurseong ...													
TH BEHAR.	Purneah ...	Kissengunge...	... ..	.....		0·94	4·21	0·75	0·72	0·20	5	6 82	7·09	8·11	35·45	27·34
		Arrareah ...	.....	.....		1·56	2·97	1·83	0·76	0·33	5	7·45	8·47	6·84	25·00	23 01
		Purneah ...	0·01	.....		0·77	2·13	0·69	0·08	6	5·58	5·70	4·97	28·77	19·51
		Goadwara ...	.....	.....		1·28	2·50	1·58	.....	2	2·86	5·57	?	23·02	?
		Balarampore	.....	0·40		1·06	0·87	1·20	1·00	1·10	6	5·57	?	?	?
		Mataari ...		0·40		1·95	1·20	0·44	0·63				?	37·18	
		Kaliaganj ...	0·29	.....		0·48	3·40	1·61	0·10	0·13	4	6 24	6·91	23·22	15·95
	North Bhagulpore.	Maddapore ...	.....	.....		.....	5·20	.....	1·25	0·36	6	6·81	4·32	16·53	10·39
		Sooposl ...	.....	.....		0·44	3·75	1·44	0·61	... ..	4	6 24	6·74	?	15·34	?
		Protabganj ...	.....	.....		1·82	.....	0·92	0·32	.....	3	●3·06	3·87			
	Darbhunga ...	Tajpore ...	.....	.....		0 03	1·08	0·04	1·02	0·04	5	2·21	2·32	5·18	11·78	13·85
		Durbhunga ...	.....	.....	0·03	0·07	2·24	2 04	0·48	0·05	6	4·91	5·09	5·83	17·02	15·02
		Madhubani ...	0·06	.....		.....	1·90	0·27	0·17	.....	4	2·40	3·04	4·80	17·33	15·97
		Bahera ...	.....	.....		...	3·20	0·10	0·53	0·05	4	3·88	3·88	?	18·61	?
		Rashera ...	.....	.....		0·20	1·80	.....	0·20	.....	3	1·90	2·90	?	12·60	?
	Monufferpore	Sitamarhi ...	0·18	0·08		.....	2·28	0·21	0·08	0·04	6	2·87	2·87	5·34	15·03	14·83
		Monufferpore	.....	0·12	0·05	0·38	2·04	1·12	0·05	6	3·76	3·76	4·78	15·76	13·74
		Hajipore ...	... ..	.....	0·30	0·49	1·73	2·93	0·22	5	6·67	6·67	4·53	14·91	12·45
		Pare ...	.....	.....	1·13	1·02	0·52	3·96	0·11	5	6·74	6·74	?	17·01	?
		Mahua ...	.....	1·17	2·55	0·03	1·85	0·84	0·10	6	6·04	6·09	?	17·75	?
		Sirhar ...	.....	.....	0·80	1·30	.....	0·80	0·03	4	2·03	2·93	?	15·73	?
		Pupri ...	0·24	.....	.....	3·84	.....	.....	0·24	3	4·12	4·12	?	16·02	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of July 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 5th June.	Sunday, 6th June.	Monday, 7th June.	Tuesday, 8th July.	Wednesday, 9th July.	Thursday, 10th July.	Friday, 11th July.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —concluded.	Chumparun...	Motihari ..	0·19	.....	0·63	2·46	0·07	2·10	0·14	6	5·59	5·64	5·28	23·62	14·58
		Bettiah ...	.....	1·70	0·45	1·09	0·80	2·05	.....	5	6·09	6·09	6·08	20·82	15·81
		Bagaha ...	.....	2·59	0·50	1·24	2·45	2·22	0·01	6	9·01	9·39	?	26·67	?
		Burhurwa ...	.....	.....	.....	0·91	0·24	1·64	0·23	4	3·02	3·07	?	18·95	?
	Sarun ...	Gopalgunge ...	.....	.....	0·65	.....	1·32	....	.....	2	1·97	2·47	5·90	12·82	13·58
		Sewan ..	.....	.....	3·81	0·22	0·21	0·38	0·12	5	4·74	4·74	4·83	18·94	12·81
		Chuprah ...	.....	0·63	0·41	0·06	0·32	0·13	.....	5	1·55	1·55	4·88	13·60	11·88
South Behar	Shahabad	Buxar ..	.....	0·02	0·05	0·18	0·02	0·69	1·02	6	1·98	2·08	3·79	12·90	9·39
		Dehree ...	.....	0·60	0·10	0·12	0·17	0·38	0·48	7	1·85	2·09	4·20	12·41	9·07
		Bhabgoah ...	.....	0·45	0·70	0·25	....	1·80	0·30	5	3·50	3·80	4·13	13·56	9·08
		Sasseram ...	0·07	0·83	0·12	.....	0·05	0·27	1·25	6	2·59	2·03	3·56	13·15	9·40
		Arrah ...	.....	.....	3·55	2·60	0 34	0·47	0·20	5	7·16	7·26	4·44	20·04	11·56
		Mohaniah ...	.....	0·50	0·80	... ..	0·50	0·80	.....	4	2·60	2·60	?	9·60	?
	Gya ..	Aurungabad...	.....	0·84	.....	0·50	1·10	1·05	0·20	5	3·69	4·22	3·98	14·29	11·05
		Gya ...	.....	0·80	2·82	4·36	0·44	0·34	1·24	6	10·06	10·80	3·91	21·96	11·48
		Nowadah ...	.....	1·38	4·36	0·54	1 72	0·29	1·28	6	9·57	9·57	4·46	27·27	11·41
		Jehanabad ...	.. ...	0·12	2·63	3·03	1·20	0·13	.....	5	7·11	7·73	4·53	25·14	10 78
		Arwal ...	.....	1·40								?		?	?
		Daudnagar ...	.....	0·50	0·10	0·20	0·10	0·20	0·40	6	1·50	2·00	?	6·01	?
		Sherrghati ...	.....	0·90	.....	0·29	0·40	.....	0·46	4	1·95	3·71	?	10·70	?
		Rajauli ...	.... .	0·08	0·23	0·78	1·76	0·25	0·17	6	3·27	3·45	?	16 47	?
		PakriBarawan	.....	.....	.....	.....	.....	3·25	0·40	2	3·65	4·30	?	23·78	?
	Patna ...	Patna ...	... ...	0·05	0·08	0·38	1·66	0 61	0·03	6	2·81	3·05	4·40	12·82	12·87
		Dinapore ..	.....	.... .	1·10	.....	0·35	0·46	0·35	4	2·26	2·26	4·82	11·76	12·18
		Behar ...	.....	.....	0·20	1·09	0·48	1·71	0·09	5	3·57	3·81	4·86	16·.2	12·70
		Barrh ...	.....	.....	0·80	0·20	2·00	.... .	.....	3	3·00	3·00	4·86	10·95	11·37
		Bickram ...	.....	.....	0·45	4·12	0·32	0·99	0·07	5	5·95	6·07	?	19·97	?
		Hilsa ...	.....	0·90	0·55	0·72	0·70	0·46	0·09	6	2·58	3·50	?	20·17	?
	Monghyr ...	Begoosarai ...	.....	0·01	.....	0·24	0·20	.....	0·25	4	0·70	0·91	4·25	12·43	11·96
		Monghyr .	.....	0·05	.....	0·03	0·20	0·07	0·08	5	0·53	0·88	4·44	17·99	12·07
		Jamui ...	.....	.....	.....	.....	0·30	0·64	0·16	3	1·10	1·54	4·44	21·15	12·93
		Gogri ...	.....	.....	.....	.....	1·37	.....	.....	1	1·37	2·04	?	17·09	?
		Sheikpura ...	.....	.....	... ..	.....	1·20	0·10	.....	2	1·30	1·30	?	10·49	?
	South Bhagulpore	Bhagulpore ...	.....	0·12	0·34	1·00	0·79	1·21	0·13	6	3·59	3·75	3·72	16·98	13·37
		Banka ..	... ..	.....	0·45	0·08	.....	0·38	0·36	4	1·27	1·29	3·90	13 86	13·55
		Kulgong ...	0·60	0·50	7·50	1·42	0·77	0·54	.....	6	11·33	11·73	?	28·50	?
		Bangaon ...	.....	.....	... ..	2·36	.....	0·52	.....	2	2·88	3·16	?	15·05	?
	Sonthal Perguunahs.	Rajmehal ...	0·05	... ..	.....	2·37	0·26	0·08	0·26	5	3·02	3·02	5·35	19·01	18·71
		Godda ...	... ...	0 21	... ..	0·32	....	2·10	0·63	4	3·26	3·34	4·24	17·30	13·44
		Pakour ...	.....	0·27	0·59	1·39	0·29	0·24	0·13	6	2·91	3·15	4·95	20·14	18·44
		Nya Doomka	0·22	0·18	0·08	0·08	0·04	1·53	3·01	7	5·14	5·34	4·52	22·28	16·64
		Deoghur ..	0 39	0·07	0·09	0·48	0·22	0·28	0·23	7	1·76	1·79	4·82	14·35	15·18
		Jamtara ...	0·15	0·19	.....	0·36	0·76	0·44	1·17	5	3·07	3·55	4·17	25·95	14·73
		Mohagama ...	.....	.....	.....	... ..	1·26	0·85	1·12	3	3·23	4·38	?	19·50	?
		Namhat ...	.....	.....	.....	0·07	0·25	0·40	0·53	4	1·25	1·25	?	5·51	?
Chutia Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	.....	0·07	0·03	1·95	0·05	0·56	0·93	6	3·59	4·51	4·22	24·09	13·97
		Hazaribagh ...	0·05	0·90	1·33	0·07	0·02	0·33	0·69	7	3·39	5·87	4·80	15·65	13·46
		Samtagurah	.....	0·40	0·14	... ..	0·10	1·00	0·10	5	1·90	2·27	4·64	10·99	13 72
		Mahudi Hills											4·61		13·73
		Jhoomra Hills	.....	0·80	.....	... ..	0·40	0·70	.....	3	1·90	2·90	6·29	17·20	17·81
		Barhi ...	.....	0·25	0·46	0·10	.....	1·20	0·26	5	2·27	2·88	?	11·59	?
		Chatra ...	.....	0·50	1 30	0·50	.....	0·82	1·00	5	4·12	4·96	?	13·05	?
		Karagdeha ...	... ..	.....	0·70	0·60	0·35	0·20	0·19	5	2·13	2·13	?	19·83	?
		Ramghar ...	.....	... ..	.....	.....	0·50	1·00	1·00	3	2·50	4·30	?	14·89	?
	Lohardugga ...	Lohardugga ...	.....	.... .	0·78	0·12	.....	3·21	0·25	4	4·36	4·63	4·01	13·18	14·46
		Ranchi ...	0·10	0·15	0·24	0·11	0·24	0·40	0·38	7	1·42	2·03	4·39	12·98	15·07
		Palamow ..	.....	0·37	1·70	0·47	0·12	0·25	.....	5	2·91	3·05	4·18	11·80	11·27
		Silli ...	.....	.....	0·90	.....	.....	1·00	.....	2	2·50	2·50	?	12·90	?
		Balumat ...											?		?
		Jossinabad...	.... .	.....	0·40	1·35	.....	0·54	0·95	4	3·24	3·24	?	10·86	?
		Garwah ...	0 23	0·24	0·30	.....	0·70						?		?
	Singbhoom	Chyebassa ...	.....	0·15	2·42	.....	.....	0·11	0·12	4	2·80	4·97	3·80	17·10	14·69
		Chakradharpore.	.....	0·10	.....	.....	.....	... ..	.....	1	0·10	0·25	?	4·80	?
		Ghatsilla ...	2·60	1·50	.....	.....	0·05	1·75					?		?
		Baharagora...	0·32	0·62	0·55								?		?
	Manbhoom ...	Purulia ...	.....	0·49	0·04	0·17	0·11	0·54	0·03	6	1·38	2·68	4·28	19·03	15·01
		Gobindpore ..	0·14	0·17	0·02	0·61	0·07	0·66	0·40	7	2·07	2·82	4·04	14·33	12·85
		Raghunath-pore.	.....	0·45	0·05	0·03	0·33	1·35	0·19	6	2·40	3·76	?	20·21	?
		Barrabhoom	1·05	0·45	0·60	0·10	0·90	1·66	0·20	7	4·90	5·53	?	18·13	?
		Jhalda ...	0·39	0·92	0 31	.....	.....	0·[illegible]	0·09	5	2·42	2·94	?	14·89	?
		Chas ...	.....	0·04	0·08	0·57	.....	0·39	0·22	5	1·25	2·25	?	18·09	?

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 15th July* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 11TH OF JULY 1890.

In the early part of the week a shallow depression lay along the foot of the hills over North Bengal and North Behar, causing westerly winds in all districts. While these winds continued, that is, on Saturday and Sunday, general rain fell in East and North Bengal and the eastern parts of South-West Bengal, but over the western half of the province rain was almost entirely absent. Meanwhile in the Bay strong winds were again developing, velocity at Saugor Island increasing from 10 miles an hour on Sunday to 24 miles on Monday and 31 on Tuesday. These high velocities were not due to any depression over the Bay, as pressure decreased steadily to North Bengal, but gradients were steeper than usual owing to the shallow depression in that district. Pressure remained steady in the north-east corner of Bengal, and fell briskly in Chutia Nagpur and the west of Behar, the low-pressure area becoming more diffused, and ultimately lowest pressure being transferred to the western districts. After this easterly winds recommenced in North Bengal and Behar, and the normal circulation was established by the 8th. General heavy rain then fell in all districts except Orissa and part of South-West Bengal, some heavy falls being reported on the 9th, and this general rainfall continued, though not in such large amounts, till the end of the week. During the last three days very few stations did not receive daily rain. During the latter half of the week pressure changes were of very little importance. On Thursday a brisk fall in Chutia Nagpur caused a very shallow depression to appear there, but within it defect was not more than a twentieth of an inch, and as the distribution was very nearly normal over the Bay, differences of pressure increased very slightly, and only a faint cyclonic circulation was perceptible in its near neighbourhood.

Pressure—Changes have been very unimportant, the largest rarely exceeding a twentieth of an inch. In the early part of the week defect was about a twentieth of an inch in North Bengal, and towards the end in Chutia Nagpur. As, when above the normal it has been by very small amounts, the means for the week are below the normal at nearly all stations, the largest differences being in North Bengal and North Behar, where they are very near a twentieth of an inch, and in one or two cases exceed it. There is a slight excess in Orissa, and defect of about two-hundredths of an inch in Lower Bengal.

Temperature—Fell almost steadily throughout the week, changes being somewhat irregular, from the variable falls of rain. In the early part of week, and again at the end, it rose in the western districts, and about the middle of the week it rose in East and North Bengal, but at other times it has been falling slowly as a rule. The means are hence below the normal in all districts, defect being largest in the west. In Chutia Nagpur it is 1·6°, South Behar 1·4°, East Bengal 1·2,° Assam 1·1°, South-West and North Bengal and Behar rather less than 1°, and Orissa ·5°. The highest temperature recorded during the week was 99° in South Behar, and the lowest 67° in East Bengal.

Rainfall.—Heavy general rain has been falling in East and North Bengal during the greater part of the week, and in the other districts from about the middle of the week. The heaviest falls were on Wednesday the 9th, when many stations reported heavy falls, the largest amount being 9·7 inches at Chittagong. Some other heavy local falls are Matabhanga 7·6 inches on the 5th and Fallacatta 5·8 inches on the 7th. The mean rainfall for the different districts are all above the normal except for Orissa and Chutia Nagpur, there being defect of ·4 inch in the former and ·1 inch in the latter. Excess is slightly over an inch in East Bengal and Behar, ·7 inch in South-West Bengal, and ·2 inch in North Bengal. Falls for the week are uniform and generally under 2 inches in Orissa, between 2 and 4 inches in South-West Bengal, but with a few local falls between 6 and 9 inches. In East Bengal the falls are usually over 3 inches and above 6 inches at Munshigunge, Dacca, Naraingunge, Ramchandrapore, and Netrokona. In Julpigoree, Cooch Behar and the Darjeeling Hills, falls, except at a few stations, are between 10 and 20 inches, the largest being Kurseong 19 inches, Fallacatta and Darjeeling 17 inches, Siliguri and Buxar 16 inches. In Behar and Chutia Nagpur amounts are more variable, but usually lie between 2 and 4 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 11th of July 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.								
			Averages for week.				Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
	Highest observed during week.	Lowest observed during week.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	94·9	72·8	86·1	77·9	82·0	—0·5	2·10	2·51	—0·41	4·0	4·0	0	6·27	5·87	20·55	14·74
South-West Bengal ...	98·7	75·1	88·8	77·6	83·2	—0·9	3·47	2·73	+0·74	5·4	4·4	+1·0	4·11	4·11	22·44	16·98
East Bengal	88·0	67·0	85·3	76·1	80·7	—1·2	4·75	3·69	+1·06	6·2	4·8	+1·4	5·05	5·57	28·53	28·20
North Bengal	90·8*	74·6*	87·3*	77·2*	82·3*	—0·8*	4·30	4·07	+0·23	6·0	4·4	+1·6	4·88	5·09	32·02	29·05
North Behar	92·3	72·7	88·5	78·5	83·5	—0·8	4·73	3·35	+1·35	4·9	3·5	+1·4	4·94	5·44	19·21	
South Behar	99·0	70·0	87·5	76·0	82·8	—1·4	3·66	2·64	+1·02	5·2	3·9	+1·3	3·89	4·34	17·76	12·69
Chutia Nagpur	87·5†	70·9†	82·3†	72·4†	77·4†	—1·67†	2·55	2·67	—0·12	5·4	4·6	+0·8	3·72	4·53	14·84	14·20
Assam	90·6	75·3	87·1	77·1	82·1	—1·1										

* Maldah not included. † Chyebassa not included.

Meteorological Office, Bengal;
The 15th July 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 6th to 12th July 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches
July 1890...	6th ...	29·575	81·8	87·2	10·9	76·3	85·9	82·5	1·066	81·2	86	0·8
,, ,, ...	7th ...	·562	82·2	87·5	10·7	76·8	82·6	78·5	·921	76·7	83	0·1
,, ,, ...	8th ...	·577	82·8	89·0	12·4	76·6	83·6	79·5	·954	77·8	83	...
,, ,, ...	9th ...	·535	84·4	90·0	11·2	78·8	87·1	83·0	1·075	81·5	84	0·0
,, ,, ...	10th ...	·557	81·1	84·9	7·6	77·3	82·6	79·5	·968	78·2	87	4·1
,, ,, ...	11th ...	·583	81·1	86·0	9·8	76·2	81·1	78·5	·942	77·4	89	0·3
,, ,, ...	12th ...	·564	84·4	90·0	11·2	78·8	85·6	80·5	·974	78·4	79	...

	Inches.
The mean 10 A.M. pressure of the seven days	29·565
	°
The mean temperature of the seven days	82·5
The extreme variation of temperature	13·8
The maximum temperature	90·0
	%
The mean 10 A.M. relative humidity of the seven days	84
	Inches.
The total fall of rain from 6th to 12th July 1890	5·53

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India

Meteorological Office, India;
The 14th July 1890.

MEMORANDUM.

Quarterly review of births and deaths registered in twenty-seven of the principal towns of Bengal for the Quarter ending 31st March 1890.

BIRTHS.

THE births registered in twenty-seven of the principal towns of Bengal during the three months ending with March 1890 were 5,691, and correspond to an annual rate of 21·44 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is ·68 lower than the mean rate of the corresponding quarters of the past five years (1885—89) but higher than the rate of the corresponding periods of any of the past five years except 1885 and 1889, *vide* the figures below :—

	Quarter ending 31st March—						
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	24·88	21·12	20·52	20·72	23·40	22·12	21·44

The births registered in each of the twenty-seven principal towns during the first quarters of 1890, 1889 and the average of the five years 1885—89 correspond to the following rates per 1,000 of the population of those towns :—

Towns.	Ratio per mille. Quarter ending 31st March of—			Towns.	Ratio per mille. Quarter ending 31st March of—		
	1890.	1889.	Average of five years 1885—89.		1890.	1889.	Average of five years 1885—89.
Burdwan	20·28	32·88	23·44	Naraingani	31·84	33·18	30·56
Midnapore	17·28	14·76	16·20	Chittagong	14·80	11·16	18·30
Hughli and Chinsurah	23·44	31·68	29·40	Comillah	32·96	35·80	33·16
Serampore	31·68	34·04	29·56	Patna	11·72	13·84	20·68
Utterpara	27·92	28·28	23·20	Gya	22·40	20·96	24·32
Howrah	21·12	23·52	22·96	Arrah	33·28	15·60	11·68
Bali	19·40	25·08	19·68	Mozufferpore	19·08	11·32	15·60
Kishnagar	18·76	22·40	21·24	Durbhanga	30·48	35·68	31·80
Ranaghat	20·24	7·36	6·44	Chupra	26·32	24·52	15·60
Santipore	16·16	21·40	13·44	Bhagulpore	25·04	29·24	30·12
Jessore	9·40	19·28	15·32	Monghyr	31·28	36·28	31·20
Rampore Beauleah	30·08	42·00	31·32	Purneah	14·88	24·20	17·56
Darjiling	30·20	20·40	11·96	Poori	17·08	29·36	16·60
Dacca	16·89	10·04	16·96				

The above statement shows that birth registration is still extremely imperfect. The supposed standard in India is 40 per thousand, and it is probably even higher than this, but it will be seen that in not one of the twenty-seven principal towns of Bengal was this standard reached during the quarter under review. The nearest approach to it was attained in the town of Arrah, where the ratio was 33·28. In only eight, however, out of the twenty-seven principal towns of the province, viz., Arrah, Comillah, Naraingani, Serampore, Monghyr, Durbhanga, Darjiling, and Rampore Beauleah, did the statistics of birth registration exceed 30 per thousand. In all the rest the rate was very low, especially in the towns of Jessore, Patna, Chittagong, and Purneah, where the statistics are so imperfectly recorded that the ratio was less than 15 per thousand. This result is very discouraging, and shows that the Municipal Commissioners do not pay attention to this elementary and very necessary portion of their duties.

DEATHS.

The deaths registered in the twenty-seven principal towns of Bengal during the quarter ending with March 1890 were 5,948, and correspond to an annual rate of 22·40 per 1,000 of the aggregate population of those towns. This rate is ·44 higher than the mean rate of corresponding periods of the five years 1885—89, and is also higher than the recorded mortality of the first quarters of 1887, 1888 and 1889, *vide* the figures below :—

	Quarter ending 31st March of—						
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	24·00	22·40	21·84	21·00	20·48	21·96	22·40

The deaths registered in each of the twenty-seven principal towns during the first quarters of 1890, 1889, and the average of the five years 1885—89 correspond to the following rates per 1,000 of the population of those towns :—

Towns.	Ratio per mille. Quarter ending 31st March of— 1890.	1889.	Average of five years 1885—89.	Towns.	Ratio per mille. Quarter ending 31st March of— 1890.	1889.	Average of five years 1885—89.
Burdwan	25·60	36·24	30·48	Narainganj	31·20	35·64	27·36
Midnapore	27·64	21·68	24·40	Chittagong	18·91	11·92	18·24
Hughli and Chinsurah	36·60	29·28	30·48	Comillah	37·60	25·08	28·12
Serampore	37·88	34·72	30·96	Patna City	10·56	12·20	14·32
Utterpara	36·28	24·92	27·56	Gya	36·92	26·32	32·04
Howrah	21·52	25·12	24·92	Arrah	18·00	9·70	7·36
Bali	20·76	23·72	22·64	Mozufferpore	12·44	9·88	15·04
Kishnagar	11·64	17·60	20·36	Darbhanga	22·00	23·40	23·48
Ranaghat	22·08	3·68	5·04	Chupra	11·84	12·44	10·04
Santipore	10·36	10·76	13·44	Bhagulpore	19·84	16·48	22·32
Jessore	41·88	24·92	29·64	Monghyr	19·80	16·88	18·48
Rampore Beauleah	25 24	25·44	30 08	Purneah	21·04	50·84	36·20
Darjiling	33·60	26·76	17·64	Poori	84·24	46·80	42·60
Dacca	18·08	20·12	21·72				

The registration of deaths in most of the principal towns of Bengal is also unfortunately extremely imperfect. The total registered mortality of the quarter under review is a trifle higher, it is true, than that of the corresponding periods with which it is compared, but in individual cases it is deplorably defective and supplies very little scope for any observations on the comparative health of municipalities. It will be seen that the statistics vary very widely in different municipalities the natural climatic and other conditions of which are similar; for instance, Gya, Patna, and Arrah; Serampore, Uttarpara, Ranaghat, Santipore and Kishnagar. There can be no reason why under proper administrative arrangement the registration should not be as complete at Patna and Arrah as at Gya or in Ranaghat, Santipore and Kishnagar as in Serampore and Utterpara. The Municipal Commissioners of those five towns, as well as the Municipal Commissioners of Howrah, Bali, Rampore Beauleah, Dacca, Chittagong, Mozufferpore, Chupra, Bhagulpore, and Purneah would do well to enquire into and test the accuracy of registration in their towns which are backward in this respect. The very high rate of mortality in Poori during the quarter under review is due to an epidemic of small-pox and cholera in that town.

The total mortality during the quarter under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding quarters of 1889 and the average of the five years 1885—89 :—

	Ratio per mille during the— Quarter ending 31st March 1890.	Quarter ending 31st March 1889.	Quarterly average of quarter ending 31st March 1885—89.
Cholera	2·64	2·56	2·36
Small-pox	·72	·16	·16
Fever	9·08	8·00	9·24
Bowel-complaints	3·08	2·68	3·24
Injury	·48	·44	·36
Other causes	6·32	6·56	6·52

Compared with the average figures of the past five years it will be seen that the figures of 1890 are pretty even except small-pox. Compared, however, with the first quarter of 1889, there is a noticeable increase in the mortality of the 1st quarter of 1890 under the heads Fever and Small-pox.

The highest annual death-rates from the several registered death-rates occurred in the following towns :—

Cholera.	Ratio per mille.	*Fever.*	Ratio per mille.	*Bowel-complaints.*	Ratio per mille.	*Other causes.*	Ratio per mille.
Poori ...	19·20	Darjiling ...	23·92	Utterpara ...	12·32	Poori ...	16·28
Comillah ...	16·28	Jessore ...	22·12	Poori ...	9 84	Serampore ...	13·88
Narainganj ...	11·76	Gya ...	21·04	Serampore ...	9 20	Midnapore ...	12·72
Jessore ...	9·40					Gya ...	10·64
Utterpara ...	8·68					Utterpore ...	10·16
Hughli and Chinsurah ...	4·92					Bhagulpore ...	9·44
Howrah ...	4·84					Narainganj ...	9·20
Gya ...	3·92						
Chittagong ...	3·04						
Ranaghat ...	2·76						
Dacca ...	2·72						
Bali ...	2·68						
Midnapore ...	2·60						
Serampore ...	2·40						

From small-pox high mortality occurred only in the town of Poori, where there were 134 deaths from this cause; ratio 21·60 per 1,000 of the population.

The mortality of the quarter under review according to *Sex*, *Class* and *Age* was distributed as follows:—

According to Sex.

	Ratio per *mille.*
Males	24·60
Females	20·00
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population	123

According to Class.

	Ratio per *mille.*
Christians ...	17·80
Hindus ...	23·12
Mahomedans ...	20·72
Buddhists ...	7·88

According to Age.

	Ratio per *mille.*
Under 1 year ...	147·64
1 year and under 5 years ...	24·04
5 years „ 10 „ ...	11·73
10 „ „ 15 „ ...	8·68
15 „ „ 20 „ ...	13·80
20 „ „ 30 „ ...	13·36
30 „ „ 40 „ ...	16·80
40 „ „ 50 „ ...	19·12
50 „ „ 60 „ ...	24·96
60 years and upwards ...	67·64

Detailed information regarding the vital statistics of the quarter under review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 12th July 1890.

Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the Quarter ending 31st March 1890.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.															Sex.			
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.						Ratio of deaths per 1,000 of population per annum in the corresponding quarter of the previous year.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	91	70	173	11·09	9·21	20·28	119	16	4	111	45	1	67	244	1·84	·44	13·00	5·25	·05	7·84	28·60	36·24	138	106	30·52	26·44	115
Midnapore ...	Midnapore ...	16,927	16,633	33,550	86	59	145	10·21	7·00	17·28	145	22	3	42	37	1	107	232	2·63	·32	5·00	6·76	·08	12·72	27·64	21·08	141	91	33·28	21·88	152
Hughli ...	Hughli and Chinsurah.	15,958	15,529	31,487	97	89	186	12·24	11·20	23·44	109	39	8	130	69	5	53	290	4·92	·36	16·40	7·56	·60	6·68	36·60	29·28	153	137	38·56	34·60	111
Serampore ...	Serampore... ...	13,559	12,937	26,496	112	98	210	16·88	14·76	31·68	114	16	5	70	61	7	92	251	2·40	·72	10·56	9·20	1·04	13·88	37·88	34·72	151	100	44·52	30·88	144
	Utterpara	3,046	2,464	5,510	17	16	33	12·32	11·60	23·92	106	12	...	7	17	...	14	50	8·08	...	5·08	12·32	...	10·16	36·28	23·92	33	17	43·32	27·56	157
Howrah ...	Howrah	53,153	37,660	90,813	251	229	480	11·04	10·08	21·12	109	110	8	142	117	7	105	489	4·84	·32	6·24	5·12	·28	4·60	21·52	25·12	303	186	22·80	19·72	115
	Bali	7,836	6,979	14,815	32	40	72	8·60	10·76	19·40	80	10	1	31	13	1	19	77	2·68	·24	8·36	4·04	·24	5·12	20·76	23·72	53	24	27·04	13·72	197
Nuddea ...	Kishnagar ...	13,263	14,214	27,477	83	46	129	12·08	6·68	18·76	180	3	3	47	4	3	20	80	·40	·40	6·84	·56	·40	2·88	11·64	17·60	47	33	14·16	9·28	152
	Ranaghat	4,028	4,655	8,683	22	22	44	10·12	10·12	20·24	109	6	1	19	6	1	15	48	2·76	·44	8·72	2·76	·44	6·88	22·08	3·68	28	20	27·72	17·16	161
	Santipore	13,708	15,979	29,687	61	59	120	8·20	7·92	16·16	103	6	..	63	3	...	5	77	·80	...	8·48	·40	..	·64	10·36	10·76	46	31	13·40	7·76	172
Jessore ...	Jessore	4,830	3,665	8,495	10	10	20	4·68	4·68	9·40	100	20	1	47	4	8	9	89	9·40	·44	22·12	1·88	3·76	4·20	41·88	24·92	52	37	43·04	40·36	106
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	78	71	149	15·76	14·32	30·08	109	2	..	97	7	2	17	125	·40	...	19·00	1·40	·40	3·40	25·24	25·44	73	52	27·12	23·04	117
Darjiling ...	Darjiling ...	4,579	2,439	7,018	23	30	53	13·08	17·08	30·20	76	...	...	42	4	1	12	59	...	...	23·92	2·28	·56	6·80	33·60	26·76	23	36	20·08	59·04	34
Dacca ...	Dacca	42,782	37,379	80,161	173	164	337	8·60	8·16	16·80	104	55	2	168	51	11	133	363	2·72	·08	5·36	2·68	·52	6·60	18·08	20·12	211	152	19·72	16·24	121
	Naraingunj ...	7,605	4,956	12,561	54	46	100	17·16	14·64	31·84	117	37	..	17	12	3	29	98	11·76	...	5·40	3·80	·92	9·20	31·20	35·64	63	35	33·12	28·24	117
Chittagong ...	Chittagong ...	13,340	8,790	22,130	40	42	82	7·20	7·56	14·80	95	17	...	38	19	5	26	105	3·04	...	6·84	3·40	·88	4·08	18·96	11·92	82	23	24·56	10·44	235
Tipperah ...	Comillah	8,153	5,353	13,506	61	47	108	18·04	13·88	31·96	129	55	...	36	7	...	29	127	16·28	..	10·04	2·04	..	8·56	37·60	23·08	65	62	31·88	46·32	68
Patna	Patna City ...	78,762	81,475	160,237	255	215	470	6·36	5·36	11·72	118	29	16	165	61	10	142	424	·72	·36	4·12	1·52	·24	3·52	10·56	12·20	231	193	11·72	9·44	124
Gya	Gya	38,290	37,831	76,121	213	214	427	11·16	11·24	22·40	99	75	1	491	9	14	203	703	3·92	·04	21·04	·44	·72	10·64	36·92	26·32	384	319	40·08	33·72	118
Shahabad ...	Arrah	20,960	22,505	43,465	191	171	362	17·56	15·72	33·28	111	...	11	126	34	11	14	196	..	1·00	11·56	3·12	1·00	1·28	18·00	9·20	104	92	19·84	16·32	121
Monufferpore ..	Monufferpore ...	23,084	19,658	42,742	115	89	204	19·72	8·32	19·08	129	1	...	43	34	14	41	133	·08	...	4·00	3·16	1·28	3·80	12·44	9·88	74	59	12·80	12·00	106
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	249	255	504	15·04	15·40	30·48	97	15	2	200	26	2	119	364	·88	·12	12·08	1·56	·12	7·20	22·00	23·40	190	174	22·48	21·52	104
Saran	Chupra	25,116	26,554	51,670	173	167	340	13·36	12·92	26·32	103	...	6	36	32	7	72	153	...	·44	2·76	2·44	·52	5·52	11·84	12·44	78	75	12·40	11·28	109
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	183	148	331	12·72	10·28	23·04	123	8	...	122	19	...	136	285	·52	...	8·48	1·32	...	9·44	19·84	16·48	166	119	22·40	17·08	131
Monghyr ...	Monghyr	28,154	29,366	57,520	210	240	450	14·60	16·68	31·28	87	28	...	115	43	7	92	285	1·92	...	7·96	2·96	·48	6·36	19·80	16·88	141	144	19·96	19·60	101
Purneah ...	Purneah	8,463	6,553	15,016	23	33	56	6·12	8·76	14·88	69	1	...	60	8	4	6	79	·24	...	15·96	2·12	1·04	1·56	21·04	50·84	46	33	21·72	20·12	107
Pooree	Pooree	13,247	11,537	24,784	56	50	106	9·00	8·04	17·08	112	119	134	102	61	5	101	522	19·20	21·60	16·44	9·84	·80	16·28	84·24	46·80	318	204	96·00	70·72	135
	TOTAL ...	550,986	510,588	1,061,574	2,962	2,729	5,691	11·16	10·28	21·44	108	702	201	2,418	819	130	1,678	5,948	2·61	·72	9·08	3·08	·48	6·32	22·40	20·48	3,394	2,554	24·60	20·00	123

MORTALITY ACCORDING TO—

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class. Deaths among—					Class. Ratio per 1,000 of population per annum.					Age. Deaths.										Age. Ratio per 1,000 of population per annum									
		Christians.	Hindus.	Mahomedans.	Bodhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Bodhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	1	172	71	...	...	29·64	39·04	27·64	...	...	32	17	14	9	7	37	36	38	19	35	193·92	30·12	24·00	14·28	8·92	18·64	29·84	34·40	39·92	94·44
Midnapore ...	Midnapore ...	1	185	46	...	...	17·92	28·53	25·44	...	...	30	8	12	3	7	27	34	41	13	51	161·48	13·60	12·80	3·92	8·54	14·68	24·52	41·00	36·80	111·44
Hughli ...	Hughli and Chinsurah.	2	234	54	...	...	34·76	37·00	35·00	...	...	30	45	16	5	19	40	25	31	23	56	149·40	31·08	22·16	8·04	30·24	25·76	17·48	29·72	35·36	108·04
Serampore ...	Serampore ...	...	230	21	...	...	.....	36·44	89·52	...	...	52	22	12	7	3	30	43	26	13	38	202·92	48·72	19·08	12·00	5·48	22·24	34·56	30·80	37·56	109·24
	Utterpara	...	50	...	...	...	.....	37·52	.....	...	..	9	4	.	1	1	10	9	7	...	9	223·60	38·00	... ..	8·32	9·08	34·72	33·92	39·92	...	138·44
Howrah ...	Howrah	10	359	121	...	...	21·08	21·00	23·56	...	...	67	60	26	13	26	75	81	59	33	58	129·88	43·32	16·52	7·88	14·16	13·20	8·40	17·00	38·60	61·84
	Bali	...	65	12	...	...	.....	19·36	36·60	...	...	8	9	4	6	3	8	9	10	2	18	68·36	36·00	15·00	20·20	8·96	9·52	12·88	20·64	7·60	98·36
Nuddea ...	Kishnagar ...	1	55	24	...	...	7·04	11·80	11·56	...	...	12	4	3	...	3	7	15	4	10	22	90·76	6 48	3·48	.....	5·80	5·80	14·00	4·88	18·88	50·92
	Ranaghat	...	36	12	...	...	.....	19·64	35·16	...	...	6	2	5	2	3	8	5	4	5	8	115·92	10·04	17·92	9 20	19·24	21·20	16·00	15·92	27·60	56·24
	Santipore	...	53	24	...	...	.....	10·24	10·72	...	...	15	6	1	6	6	9	4	2	7	21	71·04	8·28	1·04	8·24	16·76	7·32	3·68	2·24	12·16	42·76
Jessore ...	Jessore	1	44	44	...	...	24·68	38·00	46·04	...	...	20	10	1	2	5	8	13	13	11	6	422·36	30·96	5·04	12·00	27·32	15·88	33·36	49·52	78·12	53·40
Rajshahye ...	Rampore Beauleah	...	57	68	...	...	... ..	23·00	27·72	...	...	19	11	13	2	7	10	19	11	12	21	187·16	31·00	25·00	4·40	16·84	9·60	21·08	17·92	38·64	87·20
Darjiling ...	Darjiling ...	3	50	6	...	...	75·00	43·52	39·16	...	...	13	8	1	1	1	7	11	5	5	7	429·72	49·76	6·80	8·16	6·24	14·00	30·72	28 88	81·96	165·68
Dacca ...	Dacca	...	215	148	...	...	.....	21·32	15·04	...	...	60	28	23	15	34	65	38	23	22	63	126·44	12·44	9·24	7·52	19·60	16·96	13·04	10·92	18·56	43·64
	Narainganj ...	...	52	46	...	...	.....	32·88	29·84	...	...	21	6	1	8	2	8	20	7	5	20	301·04	21·04	3·40	28·16	7·64	11·96	37·40	26·08	25·52	122·68
Chittagong ..	Chittagong ...	8	18	75	4	...	40·20	12·40	19·00	66·64	...	17	7	4	6	3	15	19	8	13	13	120·76	14·20	6·40	9·28	4·96	12·96	23·76	14·16	47·92	65·32
Tipperah ...	Comillah	1	32	94	...	...	33·04	21·52	50·84	..	..	21	10	7	6	9	18	14	7	8	27	232·80	30·76	17·16	16·44	28·60	26·04	28·08	21·28	39·92	159·28
Patna	Patna City ...	...	318	106	...	...	.....	10·68	10·36	...	...	66	21	31	19	17	50	42	41	50	87	61·24	5·72	7·36	5·24	6·08	6·92	7·20	8·68	14·12	25·16
Gya	Gya	...	569	134	...	...	.. ...	37·88	33·32	...	...	97	58	25	20	17	59	60	102	76	181	216·72	36·48	14·28	11·88	12·96	15·76	21·64	41·72	46·24	140 64
Shahabad ...	Arrah	...	143	53	...	...	.....	18·44	17·08	...	...	37	15	14	11	9	25	22	12	11	40	114·88	13·52	10·88	9·92	11·40	12·72	13·64	10·20	14·20	55·44
Mozufferpore ...	Mozufferpore ...	...	87	46	...	...	.....	11·56	14·72	...	...	34	16	9	9	3	13	11	16	7	16	142·40	15·80	8·00	9·08	3·92	5·56	6·28	12·76	8·60	26·28
Durbhanga ...	Durbhanga ...	...	269	104	...	...	.....	21·48	23·08	...	...	57	40	29	21	15	23	34	27	41	77	146·40	21·00	14·80	15·08	14·88	6·88	12·16	14·48	37 36	96·40
Saran	Chupra	...	124	29	...	...	... ..	12·48	9·72	...	...	45	10	10	3	9	11	9	8	12	36	127·56	7·72	6·08	2 36	10·36	4 76	4·60	5·24	11·60	42·32
Bhagulpore ...	Bhagulpore ...	1	200	84	...	...	10·36	20 08	19·48	...	...	46	24	11	9	22	36	30	26	21	60	154·8	17·08	7·48	5·72	21·04	13·16	12 92	16·16	19·72	66 60
Monghyr ...	Monghyr	1	220	64	...	...	16·90	19·68	20·36	...	...	64	35	11	9	15	28	36	20	3	64	172 36	22·48	6·20	6·28	15·88	10·80	16·12	12·52	3·00	71·36
Purneah ..	Purneah	1	38	40	...	...	23·92	16 56	25·24	..	...	5	7	6	3	5	15	9	10	8	11	79·64	23·16	15·16	19·04	20·68	15·24	12 60	21·56	34·12	54·52
Poori	Poori	...	519	3	...	...	.....	84·60	57·12	...	...	54	81	35	14	29	66	80	50	43	70	712·24	18·72	62·44	21·52	62·36	10·92	78·32	60·16	77·08	155·00
	TOTAL ...	31	4,884	1,129	4	...	17·80	23·12	20·72	7·88	...	987	559	324	210	289	706	737	559	454	1,112	147 64	24·04	11·72	8·68	15·80	13 35	16·80	13·12	24·96	67·64

OFFICE OF SANITARY COMMISSIONER FOR BENGAL;
The 12th July 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 28th June 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 28th June 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 16·9 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is ·6 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1887 and 1889, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	22·6	17·3	13·7	17·6	16·3	17·5	16·9

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 7th June 1890.	14th June 1890.	21st June 1890.	28th June 1890.	Towns.	Weeks ending— 7th June 1890.	14th June 1890.	21st June 1890.	28th June 1890.
Burdwan	21·4	32·0	7·6	19·8					
Midnapore	18·6	13·9	3·1	20·1	Naraingunj	24·8	12·4	58·0	12·4
Hughli and Chinsurah	26·3	19·7	14·8	18·1	Chittagong	11·7	9·4	23·5	21·1
Serampore	23·0	23·6	29·4	27·5	Comillah	15·4	38·5	11·5	38·5
Uttarpara		19·9	9·4	9·4	Patna City	6·2	7·5	7·8	11·4
Howrah	18·9	10·9	15·5	13·2	Gya	19·8	16·4	12·3	21·9
Bali	7·0	10·5	10·5	14·0	Arrah	13·2	8·4	17·9	10·8
Kishnagar	15·1	15·1	9·5	26·5	Mozufferpore	10·9	7·3	18·2	15·8
Ranaghat	6·0	12·0	..	6·0	Durbhanga	11·0	20·5	17·3	28·3
Santipore	10·5	17·5	8·8	17·5	Chupra	9·1	4·0	8·0	8·0
Jessore	...	6·1	..	..	Bhagulpore	10·9	12·7	17·2	21·7
Rampore Beauleah	23·6	31·5	36·8	34·2	Monghyr	17·2	20·8	23·5	24·4
Darjiling	22·2	...	59·3	..	Purneah	17·3	13·9	...	3·5
Dacca	10·4	9·1	7·8	9·7	Poori	18·9	21·0	29·4	14·7

It will be seen that last week the highest birth-rate was returned from Comillah (38·5) and the lowest from Purneah (3·5). No births were registered during the week in Jessore and Darjiling towns.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 25·6 per 1,000 of the population. The rate of the week is ·9 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885 and 1889, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	29·2	22·1	20·3	23·4	28·7	24·7	25·6

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 7th June 1890.	14th June 1890.	21st June 1890.	28th June 1890.	Towns.	Weeks ending— 7th June 1890.	14th June 1890.	21st June 1890.	28th June 1890.
Burdwan	16·8	19·8	15·8	19·8					
Midnapore	20·1	15·5	20·1	26·3	Naraingunj	24·8	24·8	16·6	20·7
Hughli and Chinsurah	32·8	29·5	19·7	27·9	Chittagong	30·5	11·7	16·4	23·5
Serampore	15·7	23·6	15·7	29·4	Comillah	30·8	34·7	11·5	34·6
Uttarpara	47·2	18·9	28·3	...	Patna City	21·4	17·5	15·3	14·3
Howrah	12·6	20·6	19·0	8·6	Gya	42·4	27·3	34·8	27·3
Bali	19·5	14·0	17·5	10·5	Arrah	21·5	18·2	37·1	45·5
Kishnagar	9·5	9·5	...	...	Mozufferpore	26·8	29·9	26·8	36·5
Ranaghat	12·0	6·0	6·0	...	Durbhanga	26·7	38·0	21·2	26·0
Santipore	8·8	14·0	18·8	7·0	Chupra	11·1	12·1	14·1	19·1
Jessore	40·0	12·2	36·7	12·2	Bhagulpore	22·6	24·4	18·1	16·3
Rampore Beauleah	23·6	23·6	23·6	15·8	Monghyr	26·2	18·1	17·2	19·9
Darjiling	59·3	14·8	37·0	59·3	Purneah	27·7	3·5	10·4	27·7
Dacca	30·5	24·0	17·5	19·5	Poori	142·7	125·9	368·0	246·5

It will be seen that last week the highest mortality occurred in the town of Poori (245·5) and the lowest in Santipore (7·). No deaths were registered during the week in Utterpara, Kishnagar and Ranaghat towns.

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per mille.	*Fever.*	Ratio per mille.	*Bowel-complaints.*	Ratio per mille.	*Other causes.*	Ratio per mille.
Poori ...	184·6	Darjiling ...	44·5	Serampore ...	17·6	Poori ...	21·0
Mozufferpore ...	19·5	Comillah ...	30·8			Midnapore ...	12·4
Arrah ...	14·4	Poori ...	29·4			Bhagulpore ...	9 9
Durbhanga ...	11·0	Purneah ...	27·7				
Patna City ...	2·3	Arrah ...	21·5				

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 7·1 from cholera, against 8·3 per 1,000 in the preceding week; ·2 from small-pox, against ·7; 9·3 from fever, against 10·1; 2·9 from bowel-complaints, against 2·2; ·6 from injury, against ·4; and 5·4 from other causes, against 5·2 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.	Ratio per mille.	*According to Class.*	Ratio per mille.	*According to Age.*	Ratio per mille.
Males	27 8	Christians ...	29·9	Under 1 year ...	163·9
Females	23·2	Hindus ...	27·0	1 and under 5 years ...	38·6
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	119	Mahomedans ...	22·2	5 „ 10 „ ...	13·7
				10 „ 15 „ ...	11·9
				15 „ 20 „ ...	11·6
				20 „ 30 „ ...	14·5
				30 „ 40 „ ...	22·5
				40 „ 50 „ ...	23·3
				50 „ 60 „ ...	34·9
				60 years and upwards ...	49·0

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 14th July 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 28th June 1890.

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								Sex.				
																											DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	6	7	13	9·1	10·7	19·8	85	..	...	4	5	...	4	13	...	...	6·1	7·6	...	6·1	19·8	15·3	8	5	23·0	16·2	143
Midnapore ...	Midnapore ...	16,927	16,633	33,560	9	4	13	13·9	6·2	20·1	225	1	...	4	4	...	8	17	1·5	...	6·2	6·2	...	12·4	26·3	20·1	7	10	21·5	31·3	69
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	6	5	11	9·8	8·2	18·1	120	..	...	10	3	...	4	17	..	...	16·4	4·9	...	6·6	27·9	19·7	10	7	32·8	23·0	142
Serampore ...	Serampore ...	13,559	12,937	26,496	10	4	14	19·6	7·9	27·5	250	2	..	1	9	...	3	15	3·9	...	2·0	17·6	...	5·9	29·4	15·7	10	5	38·4	20·1	191
	Utterpara	3,046	2,464	5,510	1	..	1	9·4	...	9·4	No female birth.	...	...	...	...	...	...	...	..	...	...	...	...	...	...	28·3	...	...	...	...	...
Howrah ...	Howrah	53,153	37,660	90,813	16	7	23	9·2	4·0	13·2	228	1	...	6	3	...	5	15	·8	...	3·4	1·7	...	2·9	8·8	12·0	10	5	9·8	6·9	142
	Bali	7,836	6,979	14,815	1	3	4	3·5	10·5	14·0	33	...	..	1	...	.	2	3	...	...	3·5	...	...	7·0	10·5	17·5	...	3	...	23·4	No male death.
Nuddea ...	Kishnagar ...	13,363	14,214	27,477	8	6	14	15·1	11·4	26·5	133	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ranaghat	4,628	4,655	9,283	...	1	1	...	6·0	6·0	No male birth.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6·0	...	...	...	...	...
	Santipore	13,708	15,979	29,687	5	5	10	8·7	8·7	17·5	100	..	..	3	...	..	1	4	...	...	5·3	...	...	1·7	7·0	15·8	2	2	7·6	6·5	117
Jessore ...	Jessore	4,830	3,665	8,495	...	...	...	...	...	...	...	...	..	2	...	...	...	2	...	...	12·2	...	...	...	12·2	36·7	1	1	10·8	14·2	76
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	8	5	13	21·0	13·1	34·2	160	...	...	5	...	1	...	6	...	...	13·1	...	2·6	...	15·8	23·6	3	3	14·5	17·3	83
Darjiling ...	Darjiling	4,579	2,439	7,018	...	...	...	...	...	...	...	...	...	6	1	...	1	8	...	...	44·5	7·4	...	7·4	59·3	37·0	3	5	34·1	106·6	33
Dacca ...	Dacca	42,782	37,379	80,161	10	5	15	6·5	3·2	9·7	200	...	1	13	4	1	11	30	...	·6	8·4	2·6	·6	7·1	19·5	17·5	24	6	29·2	8·3	351
	Narainganj ...	7,605	4,956	12,561	1	2	3	4·1	8·3	12·4	50	...	...	3	1	..	1	5	...	...	12·4	4·1	...	4·1	20·7	16·6	5	...	34·2	...	No female death.
Chittagong ...	Chittagong ...	13,340	8,798	22,138	5	4	9	11·7	9·4	21·1	125	...	...	3	3	...	4	10	...	...	7·0	7·0	...	2·4	23·5	16·4	6	4	23·4	23·7	98
Tipperah ...	Comillah	8,153	5,353	13,506	2	8	10	7·7	30·8	38·5	25	...	..	8	...	...	1	9	...	...	30·8	..	...	3·8	34·6	11·5	3	6	19·1	58·3	33
Patna	Patna City ...	78,762	81,475	160,237	19	16	35	6·2	5·2	11·4	119	7	1	13	5	2	16	44	2·3	·3	4·2	1·6	·6	5·2	14·3	15·3	26	18	17·2	11·5	149
Gya	Gya	38,290	37,831	76,121	13	19	32	8·9	13·0	21·9	68	1	...	23	...	2	9	40	·7	...	19·1	...	1·4	6·1	27·3	24·8	24	16	32·6	22·0	148
Shahabad ...	Arrah	20,960	22,505	43,465	5	4	9	6·0	4·8	10·8	125	12	2	18	1	2	3	38	14·4	2·4	21·5	1·2	2·4	3·6	45·5	37·1	25	13	62·0	30·0	206
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	7	6	13	8·5	7·3	15·8	116	16	...	7	5	1	1	30	19·5	...	8·5	6·1	1·2	1·2	36·5	26·8	20	10	45·1	26·5	170
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	20	16	36	15·7	12·6	28·3	125	14		8	5	1	5	33	11·0	...	6·3	3·9	·8	3·9	26·0	21·2	18	15	27·7	24·1	114
Saran	Chupra	25,116	26,554	51,670	4	4	8	4·0	4·9	8·0	100	2	...	8	4	1	4	19	2·0	...	8·0	4·0	1·0	4·0	19·1	14·1	8	11	16·6	21·5	77
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	13	11	24	11·8	9·9	21·7	118	...	...	6	...	1	11	18	...	...	5·4	...	·9	9·9	16·3	15·1	13	5	22·8	9·3	245
Monghyr ...	Monghyr	28,154	29,366	57,520	18	9	27	16·3	8·1	24·4	201	1	...	11	3	1	6	22	·9	...	9·9	2·7	·9	5·4	19·9	17·2	11	11	20·3	19·5	104
Purneah ...	Purneah	8,463	6,563	15,026	...	1	1	...	3·5	3·5	No male birth.	...	...	8	...	...	...	8	...	...	27·7	...	...	...	27·7	10·4	4	4	24·6	31·7	77
Poori	Poori	13,247	11,537	24,784	2	5	7	4·2	10·5	14·7	40	83	1	14	4	...	10	117	184·6	2·1	29·4	8·4	...	21·0	245·5	363·0	54	63	212·0	284·0	74
	Total																														

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	12	1	...	...	...	26·3	5·1	...	...	2	...	...	1	1	1	1	3	1	3	157·6	...	...	20·7	16·6	6·6	7·5	35·3	21·2	105·3
Midnapore ...	Midnapore ..	...	12	5	...	...	...	24·1	36·0	...	...	2	2	...	1	...	...	5	1	1	5	140·0	44·2	...	17·1	...	...	46·9	14·0	25·2	142·1
Hughli ...	Hughli and Chinsurah	...	15	2	...	...	..	30·9	16·9	...	...	4	2	2	1	1	3	2	1	...	1	259·0	46·9	36·0	21·0	20·5	25·1	18·2	12·5	...	25·1
Serampore ...	Serampore ...	...	13	2	...	...	...	26·8	110·9	...	...	2	1	...	...	1	1	6	2	1	1	146·5	28·8	...	...	23·8	9·7	62·8	30·8	27·2	37·4
	Utterpara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Howrah ...	Howrah	1	10	4	...	...	27·5	7·6	10·1	...	...	4	...	1	...	...	3	2	...	3	2	100·8	...	8·3	...	...	6·9	5·4	...	28·4	27·7
	Bali	...	3	...	...	...	...	11·6	...	...	...	1	...	...	...	...	...	...	...	...	2	143·6	...	...	...	...	...	...	...	...	142·1
Nuddea ...	Kishnagar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ranaghat	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Santipore	...	1	3	...	...	...	2·5	17·4	...	...	...	...	...	...	...	1	...	...	...	3	...	...	...	...	23·4	...	...	...	...	79·4
Jessore ...	Jessore	...	1	1	...	...	...	11·5	13·6	...	...	1	...	...	...	...	1	...	...	...	...	268·0	..	...	...	...	25·8	...	...	...	...
Rajshahye ...	Rampore Beauleah	...	...	6	...	..	...	...	31·8	...	...	3	...	...	...	...	1	...	1	...	1	384·2	...	...	...	...	12·5	...	21·2	...	54·0
Darjiling ...	Darjiling	...	8	...	...	...	...	90·6	...	...	...	...	2	1	...	...	1	3	...	...	1	...	161·7	88·9	...	...	25·0	108·9	...	...	307·7
Dacca	Dacca	...	23	7	...	...	...	29·7	9·3	...	...	4	6	4	...	1	3	1	3	2	6	109·6	42·3	21·0	...	7·1	10·2	4·5	18·6	22·0	56·9
	Naraingani ...	...	2	3	...	...	...	16·4	25·3	...	...	2	1	1	...	...	...	1	...	...	...	372·8	45·6	39·4	...	...	...	24·3	...	...	...
Chittagong ...	Chittagong ..	...	1	9	...	...	...	9·0	30·6	...	...	3	2	...	1	...	1	1	1	1	...	277·1	52·9	...	20·2	...	11·2	15·6	23·0	47·9	...
Tipperah ...	Comillah	...	1	8	...	...	...	8·7	56·3	...	...	2	...	...	1	1	..	...	2	1	2	350·2	...	...	35·6	41·3	...	...	79·1	64·9	153·4
Patna	Patna City ...	...	36	8	...	...	...	15·7	10·2	...	...	8	6	...	5	2	3	5	4	3	8	96·5	21·4	...	19·1	9·3	5·4	11·2	11·0	11·0	30·1
Gya ...	Gya	...	36	4	...	...	...	31·3	12·9	...	...	6	7	4	2	...	4	2	1	10	4	174·3	57·3	29·7	15·5	...	14·1	8·2	5·3	79·1	40·4
Shahabad ...	Arrah	...	26	12	...	...	...	43·6	50·3	...	...	7	14	2	...	...	...	5	4	2	4	282·6	164·2	20·3	...	...	...	40·4	44·4	33·6	72·1
Mozufferpore ...	Mozufferpore ...	...	14	16	...	...	...	24·2	66·7	...	...	1	6	6	4	2	2	3	2	1	3	54·5	77·2	69·3	52·6	34·3	13·1	22·4	30·8	16·9	64·1
Durbhanga ...	Durbhanga ...	...	15	18	...	...	...	16·1	53·3	...	...	5	11	3	1	2	5	4	2	...	167·0	75·2	19·9	9·4	25·9	15·5	13·6	...	23·7	...
Saran	Chupra	1	15	3	...	...	486·0	19·7	13·1	...	...	4	2	2	...	...	7	2	1	...	1	147·4	20·1	17·5	...	...	39·5	13·4	8·6	...	15·3
Bhagulpore ...	Bhagulpore ...	2	13	3	...	...	269·4	17·0	9·1	...	...	9	1	...	1	1	3	...	..	1	2	392·0	9·6	...	8·3	12·4	14·3	...	...	12·2	28·9
Monghyr ...	Monghyr	...	17	5	...	...	...	19·8	26·7	...	...	9	2	1	...	...	2	2	...	4	2	315·2	16·7	7·4	...	...	10·1	11·7	...	52·3	29·0
Purneah ...	Purneah	...	3	5	...	...	...	17·0	45·9	...	...	...	1	1	...	...	1	4	...	...	1	...	43·0	32·9	...	...	15·8	72·9	...	...	64·4
Poori ...	Poori	...	116	1	...	...	...	245·9	247·6	...	...	1	3	1	4	5	17	27	30	19	10	171·6	86·8	23·2	110·9	139·9	167·3	346·4	469·5	442·9	287·9
	TOTAL ...	4	393	126	...	...	29·9	27·0	22·2	...	...	80	69	29	22	18	59	76	56	52	62	163·9	38·6	13·7	11·9	11·6	14·5	22·5	23·3	34·9	49·0

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 14th July 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of May 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual leases.					GRAND TOTAL.	During month.	Up to end of month.	During month.	Up to end of month.	
										Kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot-weather.	Total.						
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.	
ORISSA	Cuttack	Taldunda, 1st reach	1,342	.....	.....	.....	.....	.....	10,011	.....	.....	.....	.....	.....	.....	10,011	2·10	2·10	1·28	1·43	
		Ditto, 2nd „	566	.....		.....	.....	.....		.....	.....	.....	.....	.....	.....						
		Machgong	776	.....	.....	.....	.....	.....	22,264	.....	.....	.....	.....	.....	.....	22,264	1·40	1·40	3·40	3·50	
																	2·00	2·00	1·82	1·82	
		Kendrapara	1,067	.....	.....	103	93	.....	48,450	.....	.....	.....	.....	.....	.....	48,450	2·45	2·45	0·69	0·77	
		Gobri	272·83	.....	.....	21	2	.....	2,287	.....	.....	.....	.....	.....	.....	2,287	3·70	3·70	2·78	3·50	
		Do. extension	648	.....	.....	.....	.....	.....	2,147	.....	.....	.....	.....	.....	.....	2,147	No gauge fixed.				
		Patamoondi	885	.....	.....	.....	5	.....	10,209	.....	.....	.....	.....	.....	.....	10,209	.....	.....	.....	.....	
		High Level, Range I	608	.....	.....	279	270	.....	25,023	.....	.....	.....	.....	.....	.....	25,023	4·25	4·85	3·45	5·15	
		Ditto, ditto II	727·16	.....	.....	.....	.....	.....	2,392	.....	20	.....	.....	.....	20	2,412	.....	.....	.....	.....	
	Balasore	Ditto, ditto III	727·16	.....	.....	136	89	.....	34,400	.....	.....	127	.....	.....	127	34,527	4·09	4·54	2·95	3·23	
		Total	.....	.....	.....	544	459	.....	157,193	.....	20	127	.....	.....	147	157,340	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	134,291	.....	2,974	153	.....	.....	3,127	137,418	.....	.....	.....	.....	
SOUTH-WESTERN.	Midnapore	Midnapore	1,411	3	.....	.....	.....	.....	63,277	.....	.....	.....	.....	.....	.....	63,277	5·71	6·22	2·63	3·63	4 Days discharging.
	Howrah	Panchkoorah	522	5	.....	.....	.....	.....	3,318	.....	.....	.....	.....	.....	.....	3,318	7·41	7·41	0·95	1·88	6 Days discharging.
		Tidal reaches, Ranges I-II	.....	.....	.....	.....	.....	.....	386	.....	.....	.....	.....	.....	.....	386	.....	.....	.....	.....	
		Total	.....	.....	.....	.....	.....	.....	66,981	.....	.....	.....	.....	.....	.....	66,981	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	52,286	.....	.....	.....	.....	.....	.....	52,286	.....	.....	.....	.....	
SORE	Shahabad	Western Main	4,342	1,094	4	527	314	11,464*	.....	.....	.....	204	.....	309	513	11,977	0·83	0·84	0·18	0·18	
		Buxar	1,226	220	134	3,075	4,322	51,521	.....	.....	.....	1,057	.....	2,263	3,320	54,841					
		Arrah	2,000	566	440	17,712	18,229	89 963	.....	.....	.....	2,132	.....	5,518	7,650	97,615	1·67	1·70†	0·89	0·89	
	Patna and Gya.	Eastern Main	1,466	16	12	8	13	1,132	.....	.....	.....	8	.....	.....	8	1,140	3·37	3·37	1·65	1·65	
		Patna				477	296	36,976	.....	.....	.....	390	.....	.....	390	37,366					
		Total	.....	.....	.....	21,799	23,174	191,058	.....	.....	.....	3,791	.....	8,090	11,881	202,939	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	156,348	.....	.....	.....	4,082	.....	10,962	15,044	171,392	.....	.....	.....	.....	
		Grand Total	.....	.....	.....	22,343	23,633	191,058	224,104	.....	20	3,918	.....	8,090	12,028	427,250	.....	.....	.....	.....	
		Grand Total of the corresponding period of last year	.....	.....	.....	.....	.....	156,348	186,577	.....	2,974	4,235	.....	10,962	18,171	361,696	.....	.....	.....	.....	

* Correct area. The area shown in the return of April last was wrong. † Rainfall during April last was 0·03.

CALCUTTA,
The 15th July 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of May 1890.

Date.	River Ganges.																River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beauleah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
	Miles.	66	134	48	90		177	87	287	110	381	94	471	90	591	120						
	Distance.	From Allahabad ...	From Allahabad ...	From Mirzapur ...	From Benares		From Benares	From Buxar ...	From Benares	From Dinapur	From Benares	From Monghyr	From Benares	From Sahebgunge ...	From Benares	From Rampore Beauleah ...						
		Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
		Below zero.		Below zero.						Below zero.		Below zero.		Below zero.									
1st		0·33	205·89	1·61	195·19	0·50	169·55	6·30	140·58	5·09	96·85	2·83	65·17	1·58	40·42	4·75	13·69	1·54	35·28	2·08	6·38	6·60	155·36
2nd		0·33	205·89	1·63	195·17	0·59	169·55	6·65	140·88	4·92	96·93	2·92	65·08	1·50	40·50	4·75	13·69	1·54	35·28	2·13	6·43	7·20	155·96
3rd		0·33	205·89	1·65	195·15	0·50	169·55	6·70	140·93	4·75	97·10	3·08	64·92	1·33	40·67	5·00	13·94	1·54	35·28	2·42	6·72	7·00	155·76
4th		0·42	205·80	1·67	195·13	0·50	169·55	6·60	140·83	4·58	97·27	3·17	64·83	1·25	40·75	5·08	14·02	1·54	35·28	3·08	7·38	6·60	155·76
5th		0·42	205·80	1·69	195·11	0·42	169·47	6·60	140·88	4·71	97·14	3·17	64·83	1·25	40·75	5·33	14·27	1·54	35·28	3·33	7·63	5·00	153·76
6th		0·42	205·80	1·71	195·19	0·42	169·47	6·60	140·83	4·67	97·18	3·00	65 00	1·29	40·71	5·50	14·44	1·54	35·28	3·17	7·47	4·50	153·26
7th		0·50	205·72	1·73	195·07	0·33	169·38	6·60	140·83	4·58	97·27	3·00	65·00	1·36	40·64	5·67	14·61	1·54	35·28	3·00	7·30	4·10	152·86
8th		0·58	205·64	1·75	195·05	0·33	169·38	6·70	140·93	4·63	97·22	2·92	65·08	1·33	40·67	6 00	14·94	1·50	35·24	3·00	7·30	4·00	152·76
9th		0·58	205·64	1·77	195·03	0·33	169·38	6·70	140 93	4·67	97·18	2·92	65·08	1·33	40·67	5·83	14 77	1·46	35·16	3·33	7·63	4·10	152·86
10th		0·67	205·55	1·79	195·01	0·33	169·38	6·65	140·58	4·54	97·27	2·83	65·17	1·29	40·71	5·58	14·52	1·42	35·16	3·17	7·47	5·40	154·16
11th		0·67	205·55	1·81	194·99	0·33	169·38	6·65	140·88	4·42	97·43	2·67	65·33	1·27	40·73	5·42	14·36	1·42	35·16	3·00	7·30	7·00	155·76
12th		0·67	205·55	1·83	194·97	0·25	169·30	6·65	140 88	4·33	97·52	2·75	65·25	1·23	40·77	5·25	14·19	1·42	35·16	2·75	7·05	8·00	156·76
13th		0·67	205·55	1·86	194·94	0·25	169·30	6·65	140·88	4·17	97·68	2·53	65·42	1·19	40 81	5·17	14·11	1·42	35·16	2·67	6·97	9·00	157·76
14th		0·75	205·47	1·83	194·92	0·25	169·30	6·70	140·93	3·92	97·93	2·67	65·33	1·15	40·85	5·08	14·02	1·42	35·20	2·67	6·97	8·80	157·56
15th		0·75	205·47	1·90	194·90	0·25	169·30	6·60	140·83	3·81	98 02	2·67	65·33	0·96	41·04	5·25	14·19	1·50	35·24	2·71	7·01	7·60	156·36
16th		0·58	205·64	1·92	194·88	0·25	169·30	6·60	140·83	3·83	98·02	2·67	65·33	0·86	41·14	5·58	14 52	1·50	35·20	2·75	7·05	7·00	155·76
17th		0·42	205·80	1·94	194·86	0·25	169·30	6·65	140·88	3·75	98·10	2·42	65 58	0·81	41·19	6·00	14·94	1·46	35·20	3·00	7·30	6·70	156·46
18th		0·42	205·80	1·96	194·84	0·25	169·30	6·60	140·83	3·63	98·21	2·42	65·58	0·81	41·19	6·50	15·44	1·46	35·20	3·00	7·30	6·50	156·26
19th		0·42	205·80	1·98	194·82	0·25	169·30	6·70	140·93	3·58	98·27	2·67	65·33	0·79	41·21	7·00	15·94	1·46	35·20	3·00	7·30	6·00	154·76
20th		0·33	205·89	2·00	194·80	0·17	169·22	6·65	140·88	3·54	98·31	2·75	65·25	0·75	41·25	7·00	15·94	1·50	35·24	3·08	7·38	5·90	154·66
21st		0·33	205·89	2·02	194·78	0·17	169·22	6·50	140·73	3·46	98·39	2·83	65·17	0·75	41·25	6·75	15·69	1·50	35·28	3·00	7·30	5·50	154·26
22nd		0·25	205·97	2·04	194·76	0·17	169·22	6·50	140·73	3·42	98·43	2·83	65·17	0·88	41·12	6·42	15 36	1·58	35·32	2·92	7·22	6·00	153·76
23rd		0·25	205·97	2·06	194·74	0·17	169·22	6·55	140·78	3·33	98·52	2·50	65·50	1·00	41·00	5·75	14·69	1·58	35·32	2·79	7·09	4·80	153·56
24th		0·25	205·97	2·08	194·72	0·08	169·13	6·70	140·93	3·25	98 60	2·42	65·58	1·00	41·00	5·67	14·61	1·54	35·28	2·58	6·88	4·70	153·46
25th		0·17	206·05	2·11	194·69	0·08	169·13	6·90	141·13	3·08	98 77	2·42	65·58	1·00	41·00	5·67	14·61	1·54	35·28	2·50	6·80	4·50	153·26
26th		0·17	206·05	2·13	194·67	0·08	169·13	6·90	141·13	3·00	98·55	2·58	65·42	0·92	41·08	5·58	14·52	1·54	35·28	2·25	6·55	4·60	153·36
27th		0·17	206·05	2·15	194·61	0·08	169 13	7·00	141·23	2·83	99·02	2 58	65·42	0·90	41·10	5·42	14·36	1·54	35·28	2·17	6·47	4·60	153·36
28th		0·33	205·89	2·17	194·63	0·08	169·13	7·00	141·23	2·67	99·18	2·58	65·42	0·92	41·08	5·33	14·27	1·54	35·24	2·00	6·30	5·30	154·06
29th		0·25	205·97	2·19	194·61	0·08	169·13	7·10	141·33	2·50	99·35	2·50	65·50	0·94	41·06	5·25	14·19	1·50	35·24	2·08	6·38	5·70	154·46
30th		0·25	205·97	2·21	194·59	0·08	169·13	7·10	141·33	2·25	99·60	2·33	65·67	0·96	41·04	5·17	14·11	1·50	35·32	2·42	6·72	6·00	154·76
31st		0·33	205·89	2·23	194·57	0·08	169·13	7·10	141·33	2·17	99·68	2·25	65·75	0·92	41·08	5·17	14·11	1·58	35·32				

Calcutta,
The 15th July 1890.

G. A. G. Shawe,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 12th July 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 12th July 1890.			Week ending Saturday, the 13th July 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	287	53,950	653	309	65,850	1,042
Jute	7	3,350	57	15	9,125	150
Firewood	70	39,875	548	154	65,425	1,015
Other articles	722	1,53,375	1,869	880	2,09,715	3,276
Total ...	1,086	2,50,550	3,127	1,358	3,50,115	5,483

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of April 1890, as compared with the same month of the previous year.

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	13,662	3,521	11,799	1,692	30,530	13,491	17,039	.....
Cotton, raw	1	872	17	380	873	397	476	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	2,773	50	1,703	217	2,823	1,920	843	.....
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	3,756	6,541	2,023	4,583	10,297	6,606	3,691	.....
5.—Others	1,340	12,719	582	10,252	14,059	10,834	3,225	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	.....	324	3	356	324	359	.....	35
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.....	1,345	.....	1,020	1,345	1,020	325	.....
b.—Unscrewed	3	7,139	.....	2,511	7,142	2,511	4,631	.....
2.—Gunny-bags and cloth	295	1,270	459	955	1,565	1,414	151	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	1,282	110	954	122	1,392	1,076	316	.....
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	424	2	447	26	426	473	.....	47
3.—Others	415	35	190	14	450	204	246	.....
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	100	4,192	109	6,064	4,292	6,173	.....	1,881
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	121	975	113	220	1,096	368	728	.....
3.—Others	782	679	647	734	1,461	1,381	80	.....
Railway plant and rolling-stock	.....	.....	4,431	4,053	8,050	8,484	.....	2,434
Salt	6,471	10	3,263	9	6,481	3,272	3,209	.....
Sugar—								
1.—Drained	1,947	954	549	2,936	2,901	3,444	.....	1,243
2.—Undrained								
Tea—								
1.—Foreign	1	97	2	158	98	160	.....	62
2.—Indian								
Wood—								
1.—Timber	50	35	38	134	85	172	.....	87
2.—Firewood	2,225	.....	1,544	.....	2,225	1,544	681	.....
Tobacco	32	1,358	43	2,169	1,390	2,212	.....	822
All other articles of merchandise—								
1.—Unmanufactured	4,725	3,888	3,605	1,565	8,613	5,170	3,443	.....
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Section) ...	407	1	425	8	408	433	.....	25
Total ...	40,093	46,617	35,011	40,127	1,06,076	75,148	39,064	6,136

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of April 1890.

INCREASES.

	Tons.
Coal	17,039
For railway and flotilla consumption principally.	
Cotton piece-goods	843
Ordinary fluctuation.	
Rice	3,691
Principally from Forbesganj (49,000 maunds) and from Hilli (40,000 maunds). The period with which the comparison is made was one of partial failure of the rice crop.	
Jute, unscrewed	4,631
Goalundo, Serajganj, Narayanganj, and Mymensing contributed this increase; a considerable percentage of last season's crop was withheld in hopes of a rise in prices.	
Betel-nuts	728
Almost exclusively in receipts from the B. C. Flotilla.	
Salt	3,209
The increase was in despatches from Chitpore.	
Firewood	681
From the Southern Section.	

DECREASES.

Oil-seeds	1,881
Decreases in despatches from the Eastern Section generally; also from Serajganj. The crop was late, and the market is dull.	
Railway plant, &c.	2,434
Completion of work on Behar Section.	
Sugar	1,243
Falling off in despatches from Choondanga, Alamdanga, Jagati, and Goalundo. There has been no demand in Calcutta for raw sugar produced in Eastern and Central Bengal.	

CALCUTTA, *the 12th July* 1890.

F. P. QUINLAN,
Examiner of Accounts.

Weekly Return of Traffic Receipts on Indian Railways.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for last 9 days of June 1890, *on 767 miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for last 9 days ...	193,100	84,060 0 0	5,75,550 0	90,560 0 0	*20,200 0 0	2,04,420 0 0	29,000	37,000	66,000
Or per mile of railway	252	110 0 0	750 0	118 0 0	†13 0 0	241 0 0	.....	.....	.....
For previous 25 weeks of half-year	4,075,251	18,65,586 0 0	1,37,94,208 0	24,78,683 0 0	4,73,988 0 0	*38,18,257 0 0	561,808	774,798	1,336,606
Total for 26 weeks ...	4,268,351	19,50,246 0 0	1,43,69,758 0	25,09,243 0 0	5,03,188 0 0	50,22,677 0 0	590,808	811,798	a1,402,606
COMPARISON.									
Total for corresponding 8 days of previous year	154,995	67,184 0 0	6,18,599 0	89,711 0 0	29,514 0 0	1,86,409 0 0	26,072	27,143	53,215
Per mile of railway corresponding period of previous year ...	230	100 0 0	919 0	133 0 0	†31 0 0	264 0 0	.....	.....	.....
Total to corresponding date of previous year	3,871,699	18,88,491 0 0	1,32,76,563 0	21,59,059 0 0	4,93,400 0 0	45,40,950 0 0	564,423	628,089	1,192,512

* Audited up to week ending 17th May 1890.
† Excluding steamer earnings.
a Audited up to 7th June 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR LAST 8 DAYS OF JUNE 1889.			RECEIPTS FOR LAST 9 DAYS OF JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
676	1,86,409	277	767	2,04,420	267	673	21,35,442	244	756	*22,77,670	231	1,42,228	.....

* Audited up to week ending 17th May 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for last 9 days of June 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for last 9 days ...	31,990	12,320 0 0	38,440 0	2,580 0 0	50 0 0	14,950 0 0	4,880	2,720	7,600
Or per mile of railway	256	99 0 0	308 0	21 0 0	.....	120 0 0	.....	.....	.....
For previous 25 weeks of half-year	712,490	2,45,821 0 0	12,47,207 0	73,745 0 0	1,070 0 0	*3,21,236 0 0	88,855	50,751	139,606
Total for 26 weeks ...	744,480	2,58,141 0 0	12,85,647 0	76,325 0 0	1,120 0 0	3,36,186 0 0	93,735	53,471	147,206
Comparison.									
Total for corresponding 8 days of previous year	30,405	a6,325 0 0	43,280 0	2,622 0 0	408 0 0	9,445 0 0	4,209	2,231	6,440
Per mile of railway corresponding period of previous year ...	243	51 0 0	346 0	21 0 0	4 0 0	76 0 0	.....	.....	.....
Total to corresponding date of previous year	768,179	2,69,614 0 0	14,30,526 0	82,427 0 0	5,547 0 0	3,57,588 0 0	†93,428	†53,763	147,191

* Audited up to week ending 17th May 1890.
a Exclusive of Rs. 10,011 on account of eight miles minimum charge during the half-year paid to Eastern Bengal State Railway.
† Corrected, as per half-yearly accounts.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for last 8 days of June 1889.			Receipts for last 9 days of June 1890.			Total receipts from 1st April 1889 to 30th June 1889.			Total receipts from 1st April 1890 to 30th June 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	9,445	76	125	14,950	120	125	1,79,847	111	125	*1,65,727	102	.....	14,120

* Audited up to week ending 17th May 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for last 9 days of June 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for last 9 days ...	20,830	6,370 0 0	36,830 0	1,130 0 0	150 0 0	7,650 0 0	3,280	920	4,200
Or per mile of railway	242	74 0 0	428 0	13 0 0	2 0 0	89 0 0	.....	.....	.....
For previous 25 weeks of half-year	427,843	1,30,231 0 0	5,56,703 0	51,914 0 0	4,179 0 0	*1,86,324 0 0	59,669	19,378	79,047
Total for 26 weeks ...	448,673	1,36,601 0 0	5,93,533 0	53,044 0 0	4,329 0 0	1,93,974 0 0	62,949	20,298	83,247
Comparison.									
Total for corresponding 8 days of previous year	18,674	5,994 0 0	42,170 0	1,867 0 0	1,182 0 0	8,993 0 0	2,972	2,078	5,050
Per mile of railway corresponding period of previous year	217	70 0 0	490 0	22 0 0	13 0 0	105 0 0	.....	.....	.....
Total to corresponding date of previous year	402,138	1,22,214 0 0	4,33,762 0	28,7[illegible] 0 0	5,942 0 0	1,56,936 0 0	64,297	22,300	86,697

* Audited up to week ending 17th May 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for last 8 days of June 1889.			Receipts for last 9 days of June 1890.			Total receipts from 1st April 1889 to 30th June 1889.			Total receipts from 1st April 1890 to 30th June 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	8,993	105	86	7,650	89	86	72,279	66	86	*80,689	73	6,410	.....

* Audited up to week ending 17th May 1890.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 14th June 1890	11,344
Corresponding period of 1889	9,302
Increase	2,042
	Rs. A. P.
Receipts per mile for week ending 14th June 1890	222 6 11
Corresponding period of 1889	182 6 5
Increase	40 0 6
Receipts from 1st January to 14th June 1890	2,43,943
Corresponding period of 1889	2,41,878
Increase	2,065

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 21st June 1890	10,974
Corresponding period of 1889	11,894
Decrease	920
	Rs. A. P.
Receipts per mile for week ending 21st June 1890	215 2 10
Corresponding period of 1889	233 3 8
Decrease	18 0 10
Receipts from 1st January to 21st June 1890	2,57,825
Corresponding period of 1889	2,53,773
Increase	4,052

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RESOLUTION ON THE REPORT OF MIDNAPORE FLOODS COMMITTEE.

REVENUE DEPARTMENT—FAMINE.

Calcutta, the 18*th July*, 1890.

RESOLUTION.

READ—

Resolution of this Government, dated the 12th February, 1889.

Report of the Midnapore Floods Committee, dated the 1st June, 1889.

Letter No. 875A, dated the 11th November, 1889, from the Board of Revenue, with enclosures.

Note on embankments in Bengal, by the Chief Engineer, dated the 24th May, 1890.

1. In the autumn of 1888, the attention of the Bengal Government was forcibly drawn to the large loss of crops caused by floods in parts of the district of Midnapore, and particularly in an area of three or four hundred square miles, forming the basins of the Rasulpore and Haldi rivers. Measures were at once taken to relieve the distress of the cultivators, and enquiries were instituted through the Public Works Department to ascertain the origin of the obstruction to drainage in that district with a view to such remedial action as might be found practicable. It was subsequently determined to appoint a Committee, consisting of the Director of Agriculture, Major McArthur, R.E., and Mr. Reily, a Manager of the Burdwan Raj estate part of which lies in the area affected, to make a further investigation. The report of this Committee was received in June, 1889, and immediate effect was given to some of the recommendations it contained. The Lieutenant-Governor, having since received the opinion of the Collector, the Commissioner, and the Board of Revenue on the subject, is now in a position to review the proposals made by the Committee.

2. In regard to the origin of the disaster, the report of the Committee indicates that severe floods, causing the greatest injury to crops, occurred in

1823, 1831, 1832, 1833, 1848 and 1850, a fact which indicates an original deficiency in the natural drainage of these basins, antecedent to the action taken within the last forty years. During that period Government has spent half a million sterling on embankments in Midnapore, four times as much as all the other landlords of that district. Moreover, a sea-dyke has been recently constructed in connexion with the tidal canal, which has, according to the Committee, conferred enormous benefits on the landlords and tenants by protecting their lands from the numerous inundations of the sea to which they were formerly exposed. It is desirable, in considering the general bearing of the report, to bear these facts in mind, as the Committee necessarily dwell mainly on the defects in the action of Government, giving less prominence to the natural agencies which produce floods in Midnapore, and to the success with which in many places these have been counteracted.

3. The Committee attribute great importance, as a subsidiary cause of the floods, to the embanking, by cultivators, for the purpose of reclamation, of salt-water marshes, or low-lying wastes, which has led to the silting up of the tidal creeks, notably those known by the names of Bagda and Mydakhally. As observed in the Public Works Department of this Government—

"These creeks for seven or eight months of the year discharge little or no natural drainage; but so long as the low country lying about them was, comparatively speaking, unembanked, the flood tides swept freely over it; while, with the return of the ebb, these accumulated waters were poured back into the channels with redoubled force, and so scoured them out. By this simple process the creeks were maintained by nature in an efficient state to discharge the drainage of the monsoon. During recent years, however, the large tidal basin has been embanked and reclaimed. The consequence is that the tidal waves are headed back by the embankment and deposit their silt in the bed of the creeks, which are rapidly rising above the level of the country which they formerly drained. Thus after heavy rainfall not only is the whole of the reclaimed country thrown out of cultivation, but the drainage of more inland tracts is blocked and their crops also are damaged and destroyed."

The ryots themselves have urged the same views on Government by petition, and there seems to be no doubt as to the reality of the evil. Mr. Price, when Settlement Officer, indicated in detail the extent to which private persons possess interests in these lands, the proprietary right of which generally vests in Government. The Committee's recommendations in this matter are as follow:—

(1) That the Public Works Department should determine and mark off the portion of the jalpai lands necessary to afford a sufficient spill area;

(2) That a detailed survey should be made of the lands so defined, to ascertain what bunds should be removed and what compensation should be given for such removal; and

(3) That meanwhile no new settlement of jalpai lands should be made, except for grazing purposes, growth of trees, or other purposes not involving the construction of embankments, and that the construction of new embankments, on jalpai lands already settled within the area considered sufficient by the Public Works Department for spill area, be stopped.

From paragraph 31 of the report it appears that both the Engineer officers and the natives of the district attach more importance to the effect of embanking the jalpai land than the Committee quite endorse; but in the face of the facts and arguments adduced by the Executive Engineer, the Lieutenant-Governor cannot but accept the conclusion that embankments are primarily responsible for the entire difficulty. Cross-dams have doubtless done much harm and accelerated the deterioration of the drainage channels, but until the main drainage channels had been very considerably silted up, cross-dams in them, as, *e.g.*, that at Birjoo, would not have been possible. The sections of the country between the marginal embankments of the Sadar and Bagdu nullahs show that the silting of that portion of the country through which the flood waters are supposed to escape, and of the beds of those nullahs (which are the main drainage lines), has been so great that practically the drainage has to be passed away on the top of an embanked ridge, and that a state of things has resulted which calls for some much more radical measures than any of those suggested by the Committee. It appears to be impossible to consider any portion, or even the whole of the jalpai lands, as "a sufficient spill

the pass khal provided was not in working order in the places visited, and that these khals do not provide as efficiently for the drainage of the country in the immediate neighbourhood of the canals as the old water-courses. Major McArthur gave instructions by which it is understood this defect will be remedied. The remodelling of the Hidgellee Tidal Canal—a project which, we understand, has been recently sanctioned by the Government of India—will, by the lowering of the bed of the canal, afford complete facilities for drainage of that part of country so far as it has been obstructed by this canal."

The work of putting in order the outfalls, and deepening the bed of this canal, is now in progress, and will, it is believed, completely remedy the defects indicated.

7. The Committee properly point out that embankments Nos. 43, 44 and portions of Nos. 40 and 42 were removed from the schedule of works which Government is bound to maintain, without giving to those concerned the notice required by law. This was, no doubt, an error, and in future greater care must be taken to carry out in its entirety the procedure prescribed by the Act. The question whether the defect may affect claims of remission for revenue must be decided separately in each case. The report of the Committee does not indicate that the maintenance of these embankments would by itself have been a measure of any utility.

8. The following recommendations, less directly connected with the causes of the flood, have been made by the Committee:—The drainage of the Government land in the Argoal circuit at a cost of Rs. 50,000; a cutting across from the mouth of the Kholabaria khal to a point near the Kalinagar bungalow, also estimated to cost Rs. 50,000; and a sluice at Bhograi, to cost Rs. 6,000, also a new sluice at Baintghur estimated at Rs. 42,000. In view, however, of the arguments brought forward to show that the silting up of the Russulpore is due to the tidal water being confined to the bed of the river, instead of being able to spill over a wide extent of country forming a reservoir out of which a sufficient body of water returns at ebb tide to create an efficient scour, it seems doubtful whether these proposed cuts and sluice at Baintghur (that at Bograi is in quite a different locality) will not very soon share the fate of the Russulpore into which they would open, and silt up to such an extent as to be useless. Their usefulness depends entirely on keeping the Russulpore river open, and their action in doing so would not appear to be more than very partial and temporary; being of the nature of a continuation merely of the channel of the Russulpore, the action which has taken place there would equally take place in the new cuts. This matter should receive careful consideration in the Public Works Department before such large sums of money are expended on the proposed works.

9. The Committee observe—

"It is manifest that it will be of little use to have the main rivers or khals kept open by Government if the subsidiary channels which pass through several estates are neglected, and that it is useless for a particular zemindar to keep that part of a channel open which passes through his own estate, if his neighbour neglects his part. Many of these channels have been neglected by private owners, and it is obvious that it should not be open to any owner to keep in efficient working order or not, as he pleases, a channel which does not affect him alone, but others whose lands may be situated many miles away from his property. The want of practical interest in the maintenance of embankments and of power of co-operation on the part of the zemindars, was pointed out by Mr. H. V. Bayley in his notes on Midnapore in 1851, and he recommended that 'they should be disconnected with all direct concern in payment for execution of repairs.' The same principles apply with equal or greater force to the clearing of watercourses."

On this view they recommend that charge be taken by the Public Works Department of all the main arterial drainage channels, and that they be kept up at the expense of the zemindars and ryots concerned in the manner provided in Parts II and VI of Act II (B.C.) of 1882. The Commissioner and Collector concur in this opinion, from which the Board do not dissent. The law gives the Collector a discretion to initiate proceedings of the kind indicated, and enquiries should be conducted by him at once, in communication with the Public Works Department, with a view to giving effect to the policy advocated by the Committee.

10. The thanks of the Lieutenant-Governor are tendered to the members of the Committee for their careful enquiry and full report.

ORDER—Ordered, that this Resolution be published in the *Calcutta Gazette*, and that copies of it be forwarded to the Public Works Department of this Government, and the Board of Revenue, Lower Provinces.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 19th July, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN. 1	Burdwan July 19, '90	2·00	Weather—hot with occasional rain. Transplantation of paddy going on. Sugarcane doing well. Prices of common rice :—
	Culna ...	2·98	
	Cutwa ...	1·41	
	Ranigunge ...	0·33	Srs. Burdwan ... ... 17; Culna ... ... 13; Cutwa ... ... 14 13/16; Ranigunge ... ... 15 — per rupee.
2	Bankoora ,, 19, '90	6·16	Weather—seasonable. Transplanting of *amun* still going on. Weeding commenced in *aus* fields in the Bishenpore subdivision. Common rice sells at 18 seers per rupee at Sudder and 17½ seers at Bishenpore.
3	Birbhum ,, 19, '90	2·59	Weather—seasonable. Prospects so far excellent. Transplanting has made
	Rampore Haut ...	2·70	great progress.
4	Midnapur ,, 19, '90	0·04	Weather—warm and cloudy. More rain in north and east of district than at head-quarters. Prospects of *aus* and sugarcane good. Winter rice doing well. Prices of common rice :— [illegible] Sudder ... ... 19; Contai ... ... 19; Tumlook ... ... 14; Ghatal ... ... 15 — per rupee.
	Central Districts.		
PRESIDENCY DIVN. 5	Hooghly ,, 19, '90	0·84	Weather—cool and showery. All crops doing well. More rain desirable for
	Serampore ...	1·54	high land crops. Prices of common rice :—
	Jehanabad ...	0·37	Srs. Sudder ... ... 13½; Serampore ... ... 16; Jehanabad ... ... 16 — per rupee.
	Howrah ,, 19, '90	0·30	Weather—hot and cloudy. Occasional light showers Transplanting of *amun*
	Uluberia	0·41	progressing. *Aus* and *amun* crops, jute, and sugarcane doing well. Price of common rice 13 to 14 seers per rupee.
6	24-Perghs. July 19, '90	0·08	Weather—very hot with occasional light showers. Prospects of all standing crops favourable. Rain wanted in places. Prices stationary.
7	Nuddea ,, 19, '90	4·75	Weather—seasonable. On the night of the 16th four inches of rain fell at Ranaghat. Prospects of crops good.
	Kushtea ...	1·63	
	Meherpore ...	3·92	
	Chuadanga ...	1·21	
	Ranaghat ...	4·21	
8	Khoolna ,, 19, '90	1·68	Weather—rainy with breaks of bright sunshine. Prospects and condition of
	Bagirhat ...	1·04	crops continue satisfactory.
	Satkhira ...	1·13	
9	Jessore ,, 19, '90	0·90	Weather—seasonable. Transplanting of *amun* in progress. Jute doing well.
	Jhenidah ..	2·58	Some damage to low land rice caused by floods in Narail.
	Magura ...	1·15	
	Narail ...	1·88	
	Bongong ...	3 31	
10	Moorshedabad ,, 19, '90	2·56	Weather—seasonable. *Aus* doing well. *Amun* is being transplanted. Prospects favourable.
RAJSHAHYE DIVN. 11	Dinagepur ,, 19, '90	1·58	Weather—seasonable at Sudder; very wet at Thakurgaon. Prospects continue
	Thakurgaon ...	4·26	favourable. Transplanting of *haimanti* paddy in progress. Price of rice as before.
12	[illegible] ,, 19, '90	2·06	Weather—alternately hot and cloudy and rainy. Reaping of jute continues.
	[illegible] ..	5·61	Sowing of *haimanti* paddy proceeding. Prospects of *aus* paddy and other
	[illegible] ..	3·28	standing crops good. Rain has done much good.
13	Rungpur ,, 19, '90	2·18	Weather—cool with frequent showers. All crops most promising.
	Kurigram ...	1·88	
	Gaibanda ...	1·83	
	Nilphamari ...	2·00	
14	Bogra ,, 19, '90	2·79	Weather—seasonable. *Aus* rice is being harvested, with good outturn. *Amun*
	Sherpur ...	2·52	is being transplanted. Jute is being cut and steeped. Sugarcane doing
	Nowkhilla ...	1·53	well. Common rice selling at 19 seers per rupee.
15	Pubna ,, 19, '90	2 55	Weather—cloudy and rainy. *Aus* and jute being harvested at Sudder and Serajgunge. Prospect of *amun* favourable. Prices a little lower.
16	Darjeeling ,, 19, '90	10·27	Weather—rainy. Jute and *bhadoi* crops doing well, but transplantation of
	Siliguri ...	15·20	winter rice in the Terai is stopped for heavy rain. *Haimanti* and *hagni* progressing well in the hills. Indian-corn coming to perfection. Potatoes being harvested.
17	Julpigoree ,, 19, '90	15·78	Weather—rainy and cloudy; very close at times. Average outturn of *bhadoi* paddy expected to be 12 annas and that of jute 11 annas. Transplanting of *amun* commenced in places. Prices stationary.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.				
		Eastern Districts.		
Dacca Divn.	18	Dacca July 19, '90	2·11	Weather - rainy and cloudy. Harvesting of *aus* paddy and jute going on. *Amun* paddy doing well. Rivers rising fast. Common rice is being sold at from 12 to 16 seers per rupee.
	19	Furreedpur „ 19, '90	1·40	Weather--seasonable. *Aus* paddy and jute are being harvested, with good outturn. State of standing crops favourable. Price of rice stationary.
	20	Backergunge „ 19, '90	3·37	Weather—hot with occasional heavy showers. Prospects of standing crops good generally, but some slight damage has been caused in places by the rise of the rivers and by insects. Common rice selling at about 13 seers per rupee.
	21	Mymensingh „ 19, '90	6·99	Weather—cloudy and seasonable. Heavy showers during the week. Prospect of crops continues favourable. *Aus* crop plentiful and being harvested. Jute excellent. Transplanting of *amun* going on. Common rice sells at 13½ seers per rupee.
Chittagong Divn.	22	Chittagong „ 19, '90	2·79	Weather—seasonable. *Aus* crop sown to the extent of 12 annas; prospects good. In some parts of the district lands are being prepared for *amun*, and seedlings are being transplanted. Common rice selling at 17 seers per rupee.
	23	Noakholly „ 19, '90	3·71	Weather—seasonable. *Aus* crop is being reaped in places. Sowing of *amun* going on. Prospects fair Price of rice varies from 14 to 16 seers per rupee at Feny.
	24	Tipperah „ 19, '90	3·29	Weather—cloudy and damp. *Aus* being reaped. *Amun* thriving. Rice selling at Sudder from 12 seers 12 chittacks to 21 seers 5½ chittacks per rupee.
	25	Chittagong Hill Tracts. „ 17, '90	2·37	Weather—seasonable; showery with occasional sunshine. Strong south-west wind. Early *jum* paddy ripening. Cotton progressing. Lands are being ploughed for late paddy. Common rice is being sold at 11 seers 6¾ chittacks per rupee.
		Hill Tipperah „ 18, '90	1·94	Weather—hot. *Aus* paddy still being harvested. Transplanting of *amun* progressing. Jute doing well. Prices almost stationary.
BEHAR.				
Patna Divn.	26	Patna „ 19, '90	4·71	Weather—hot. Transplantation of paddy has commenced. *Bhadoi* crops growing well. In some places sowing of *bhadoi* and paddy still continues. Prices of food-grains almost stationary.
		Barh ...	0·89	
		Behar ...	1·38	
		Dinapore ...	1·28	
	27	Gya „ 19, '90	1·74	Weather—hot and cloudy. Fields are being prepared for transplantation of paddy. Prospect of *bhadoi* has been a little reduced owing to constant rainfall. Sugarcane doing well. Prices of food-grains almost stationary.
	28	Shahabad „ 19, '90	2·84	Weather—generally cloudy. Prospects of crops good. Price stationary.
		Buxar ...	4·17	
		Bhabuah ...	2·40	
	29	Durbhunga „ 19, '90	6·94	Weather—cloudy. Prospects of *bhadoi* continue to be very promising. Transplanting of rice and *marua* in progress. Indigo manufacture going on. Prices remain stationary.
		Somastipur ...	1·89	
	30	Muzufferpur „ 19, '90	5·27	Sufficient rain during the week. Weather fairly cool. Prospects of all crops continue good. *Cheena* being gathered in some places.
		Hajipur ...	1·00	
		Sitamarhi ...	5·16	
	31	Sarun „ 19, '90	4·34	Weather—very squally and wet. Rain almost daily. Rice crop very promising. Some fine weather wanted for indigo and *bhadoi* crops.
	32	Chumparun „ 19, '90	5·38	Weather—wet, but very hot. Rain almost daily all over the district. A week's sunshine needed to allow of *makai* and *marua* being weeded. Transplantation of paddy going on. Indigo manufacture progressing. Prices almost stationary.
		Bettiah ...	3·26	
Bhagulpore Divn.	33	Monghyr „ 19, '90	5·75	Weather—sultry, rainy with overcast sky. Prospects of *bhadoi* crops good. *Makai* and *marua* sown, also *aghani* rice, and transplantation begun. Indigo doing well.
		Begusarai ...	1·34	
		Jamui ...	4·54	
	34	Bhagulpur „ 19, '90	4·48	Weather—rainy with very little sunshine. Transplantation going on. There has been lately too much rain for *marua*, but prospects of rice are excellent.
		Banka ..	1·20	
		Mudhepura ...	3·41	
		Soopool ...	2·01	
	35	Purneah „ 19, '90	6·53	Weather—cloudy and sultry. A break in the rains required in Kishengunge. Transplantation of rice going on. Jute prospects favourable. Indigo manufacture indifferent. The Mahanuddy reported to be flooding the south-east of district.
		Kishengunge ...	6·72	
		Arrareah ...	7·09	
	36	Maldah „ 19, '90	2·07	Weather—hot and cloudy. *Bhadoi* paddy in progress. Transplantation of winter rice going on. State of indigo and mulberry good. Common rice selling at an average of 15 seers per rupee.
		Chanchal ...	2·75	
		Shibgunge ...	1·64	
		Gajole ...	5·18	
	37	Sonthal Pergns. „ 19, '90	5·57	Weather—generally wet and cloudy. The rainfall during the past week has been very seasonable. Sowing and transplantation of paddy in actual progress. All crops very satisfactory.
		Deoghur ...	1·77	
		Godda ...	3·49	
		Jamtara ...	4·25	
		Pakour ...	0·87	
		Rajmehal ..	5·04	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack July 19, '90	1·18	Weather—seasonable. *Beali* is being weeded. Transplantation of *sarad* going on. Prospects generally good.
	39	Pooree ,, 17, '90	0·10	Weather—seasonable. Puddling and transplantation of *sarad* crop going on. *Beali* crop being weeded State of miscellaneous crops not good in Khoorda owing to excessive rain. Price of common rice stationary.
		Khoorda ...	2·13	
	40	Balasore ,, 19, '90	0·51	Weather—cloudy, but generally dry. Transplantation and puddling of rice crop in progress. More rain wanted in the Sudder subdivision. Number of coolies on relief-works, 35.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh July 19, '90	3·17	Weather—seasonable. Sowings of paddy and *bhadoi* crops completed in most places. Lands being prepared for transplanting. All crops doing well and prospects good. Prices about stationary.
	42	Lohardugga ,, 19, '90	3·01	Weather—warm and cloudy. Sowing of the winter rice crop is being carried on actively in the Palamow subdivision. It is nearly finished in the head-quarters subdivision. Prospect of *bhadoi* crop good. Prices steady.
		Palamow (up to 14th July)	1·02	
	43	Singhbhoom July 19, '90	0·19	Weather—seasonable. All crops doing well. The break in the rains has done much good.
	44	Manbhoom ,, 19, '90	3·58	Heavy rain with alternate sunshine. Transplanting in full swing. Prospects fair. Common rice selling at from 19 to 20 seers per rupee.
		Govindpore	1·34	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 22nd July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH JULY 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ..	14 0	14 0	12 8	..	..	...	12 0	12 0	11 4	14 13	15 9	13 14	...	...	...
2	Bankoora ...	14 0	14 8	13 8	20 0	20 0	17 0	15 0	16 0	14 8	18 0	17 8	17 4	.	...	...
3	Beerbhoom ...	16 8	16 8	15 0	...	...	...	13 8	13 8	12 0	16 8	16 0	13 8	...	...	...
4	Midnapore ...	13 0	13 0	12 0	...	...	...	12 12	13 0	12 8	16 4	15 10	15 8	...	...	...
5	Hooghly ...	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 8	.	...	...
	Howrah ...	...	...	...	...	...	...	11 4	11 8	10 0	13 4	14 8	13 4	.	...	...
	Central Districts.															
	Calcutta ..	13 9	13 6	12 10	17 7	16 8	16 7	8 14	8 11	8 9	13 1	13 0	12 10	18 13	18 0	...
6	[redacted]	15 0	15 0	14 0	18 0	17 0	16 0	8 0	8 0	7 0	13 12	14 0	13 0	...	...	...
7	Nuddea ..	15 10	15 0	15 0	20 0	20 0	17 12	11 3½	11 7	11 7	12 13	12 14	13 7	...	.	...
8	Khoolna ...		...	...	...	...	..	13 0	12 8	11 0	14 4	17 0	13 0	...	..	...
9	Jessore ..	13 4	13 4	13 4	.	...	...	12 0	11 0	11 0	16 0	14 8	13 0	...	...	...
10	Moorshedabad	16 0	16 0	14 0	..	...	...	11 0	11 0	11 0	15 0	15 0	14 0	...	...	...
11	Dinagepore	15 0	15 8	13 8	17 0	16 0	25 4	13 4	13 4	12 0	15 9	15 9	13 12	...	..	...
12	Rajshahye ...	16 8	16 8	15 0	21 0	19 8	26 4	12 12	12 12	11 4	13 11	13 8	12 12	..	..	...
13	Rungpore ..	13 5	13 5	14 8	...	...	...	9 6	9 6	10 5	13 5	13 5	14 8	...	...	...
14	Bogra ...	16 14	15 12	13 5	...	...	...	12 0	12 0	10 14	17 4	17 4	14 4	...	...	...
15	Pubna ..	18 0	19 0	16 8	...	...	...	7 0	7 8	7 8	15 0	14 4	13 14		.	...
16	Darjeeling ...	10 0	10 0	10 0	9 0	9 0	10 0	5 0	5 0	6 0	9 0	11 0	11 0	.	...	...
17	Julpigoree ..	13 0	13 0	11 0	16 0	16 0	16 0	8 0	8 0	8 0	14 0	14 0	12 10	.	..	...
	Eastern Districts.															
18	Dacca ...	13 0	13 0	13 0	16 0	16 0	26 0	13 0	12 0	13 0	14 0	13 0	14 0	...	...	...
19	Furreedpore ...	15 0	15 0	16 0	20 0	20 0	...	10 0	10 0	8 0	15 0	15 0	12 0	...	...	...
20	Backergunge ...	...	...	..	...	...	...	12 5	12 5	11 0	14 8	14 0	12 0	...	...	...
21	Mymensingh ...	11 4	11 8	10 0	...	...	...	10 0	10 4	11 0	13 8	13 8	13 0	...	...	...

A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Ranaegunge 10½ seers.
B At Rampore Haut retail price of salt 9½ seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 9½ seers, Tumlook 8 seers, and Ghatal 10½ seers.
D In subdivisions wholesale prices of salt per rupee are :—Serampore Rs. 3-12 and Johanabad Rs. 3-14 per maund.
E In subdivisions retail prices of salt per rupee are :—Baraset 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpore 9 seers, Chooadanga 10 seers, and Ranaghat 9 seers 2 chittacks.
G At Satkhira retail price of salt 9 seers 13 chittacks per rupee.
H In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 9 seers 12 chittacks, Narail 9½ seers, and Bongong 10 seers.
I In subdivisions retail prices of salt per rupee are :—Lalbagh 9 seers, Jungipore 10 seers, and Kandi 10 seers.

Head-quarter Station Bazars of the Districts of Bengal on the 15th July, 1890.

SEERS OF 80 TOLAHS.

DISTRICTS.	BAJRA OR CUMBU. (*Pennisetum typhoideum.*)			MARUA OR RAGI. (*Eleusine Coracana.*)			KANGNI OR KAKUN, ITALIAN MILLET. (*Setaria italica.*)			GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer arietinum.*)			COMMON MASON, CARPENTER, OR BLACKSMITH.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A.	Rs. A.	Rs. A.
BENGAL.															
Western Districts.															
Burdwan.	...	...	...	...	...	...	...	...	...	20 0	19 0	16 8	0 10 0 to 0 15 0	10 0 to 15 0	
Bankoora.	...	...	...	...	...	...	...	...	...	17 0	17 8	15 0	0 7 8 to 0 16 0	9 0 to 16 0	
Beerbhoom.	...	...	...	...	...	...	...	...	...	18 12	18 0	16 0	0 7 8 to 0 10 0	13 8	
Midnapore.	...	...	...	...	...	..	...	...	...	15 8	15 0	14 8	8 7 4 to 0 10 0	7 8 to 10 0	
Hooghly.	...	...	..	..	...	...	...	..	...	16 0	16 0	16 0	0 8 0 to 0 30 0	10 0 to 30 0	
Howrah.	...	...	...	...	.	...	...	...	...	18 12	20 0	16 8	0 12 0 to 0 25 0	12 0 to 25 0	
Central Districts.															
Calcutta.	18 0	12 7	11 11	...	...	...	8 2	9 0	17 12	17 3	17 7	14 15	0 15 0	15 0	
24-Pergunnahs.	...	...	...	...	...	...	7 0	6 8	12 0	20 0	18 12	16 0	5 0 15 0 to 0 25 0	15 0 to 25 0	
Nuddea.	...	...	...	...	.	...	...	...	...	20 10	20 0	16 0	7 8 7 8 to 5 0 15 0	7 8 to 15 0	
Khoolna.	...	...	...	...	...	.	...	...	...	15 0	12 8	13 0	0 12 0 to 0 25 0	12 0 to 30 0	
Jessore.	...	...	...	...	...		.	..	...	16 0	16 0	16 0	0 10 0 to 0 15 0	10 0 to 15 0	
Moorshedabad.	...	...	...	...	...		.	..	...	21 0	21 0	17 12	8 5 0 to 0 20 0	7 8 to 10 0	
Dinagepore.	...	...	...	...	...	...	.	..	...	18 0	18 0	15 4	0 10 0 to 0 15 0	10 0 to 15 0	
Rajshahye.	...	..	...	...		...	.	..	..	22 8	21 0	19 8	0 8 0 to 0 16 0	8 0 to 16 0	
Rungpore.	...	...	...	...	...	...	..	...	...	12 4	12 4	13 0	0 10 0 to 0 15 0	8 0 to 20 0	
Bogra.	...	...	...	...	.	...	...	...	...	16 14	15 12	15 15	0 10 0 to 0 20 0	10 0 to 20 0	
Pubna.	...	...	..	...	...		..	...	...	18 12	18 12	18 0	0 7 0 to 0 20 0	7 0 to 20 0	
Darjeeling.	..	...	...	...	...	...	...	...	...	11 0	10 0	11 0	...	...	
Julpigoree.	...	...	...	18 0	...	12 0	...	...	...	16 0	16 0	13 0	0 15 0 to 0 20 0	15 0 to 20 0	
Eastern Districts.															
Dacca.	...	...	...	...	...	...	...	...	...	13 0	14 0	14 0	...	...	
Furreedpore.	...	...	...	...	...	...	...	...	...	16 0	16 0	16 0	0 15 0	15 0	
Backergunge.	...	...	...	...	...	...	...	...	...	14 8	15 4	14 8	0 10 0 to 0 15 0	12 0 to 15 0	
Mymensingh.	...	...	...	...	...	...	...	...	...	14 0	13 0	13 0	0 12 0 to 0 30 0	12 0 to 30 0	

1563a

gunge 9 seers 2 chittacks.
Q. In subdivisions retail prices of salt per rupee are :—Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers.
R. In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Tangail 10 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona 8 seers.

9 chittacks.
ers.

e 8 seers 14 chittacks, and Narain-

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ..	11 0	11 0	10 0	...	...	...	12 0	12 0	10 0	15 0	15 8	11 10	.	...	..
23	Noakholly* ...	...	...	...	.	...	...		13 8	12 0		14 0	14 0	...	...	...
24	Tipperah ...	13 14½	13 5	12 0	.	.		10 0	10 0	13 0	13 14½	18 5	14 0	.	..	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	10 10½	11 6	9 6	11 6½	12 5	10 0	...	...	...
	Hill Tipperah	6 0	6 0	6 0	.	...	..	8 0	8 0	8 0	15 0	13 0	13 0	...	...	...
	BEHAR.															
26	Patna ...	17 4 (Red.)	18 1 (Red.)	...	23 8	24 0	18 8	10 8	10 8	10 0	16 7	16 12	13 4	22 0	21 0	19 0
		16 4 (White.)	17 4 (White.)	16 8 (White.)												
27	Gya ...	16 0	16 0	15 8	22 0	21 0	19 8	11 8	9 8	8 4	15 8	15 8	12 8	...	...	...
28	Shahabad ...	16 0	15 0	14 8	20 0	20 0	18 4	9 0	8 0	8 8	14 0	14 0	12 8	Mutter 16 0	Mutter 18 0	..
29	Durbhunga ...	15 6	15 6	13 4	20 11	21 0	17 4	13 0	13 3	9 2	15 6	15 6	12 8	...	...	...
30	Mozufferpore ...	17 0	17 8	13 0	22 0	20 0	16 0	9 0	9 0	9 0	11 0	15 0	12 8	...	...	...
31	Sarun ...	16 4	16 4	14 12	21 4	21 8	18 4	8 8	8 8	8 8	14 3	14 0	11 14	...	...	...
32	Chumparun ..	17 0	18 0	14 0	23 0	24 0	17 8	8 0	8 13	8 0	15 0	13 0	11 0	...	...	...
33	Monghyr ...	18 6	18 14	16 12	22 0	23 1	17 4	12 9	11 8	10 8	15 12	15 12	12 1	...	16 12	...
34	Bhagulpore ..	17 11	17 11	15 12	21 7	22 11	17 10	10 1 (Old.)	10 1 (Old.)	11 6	13 14 (Old.)	13 14 (Old.)	12 10	...	...	...
								12 10 (New.)	13 4 (New.)		16 6 (New.)	17 0 (New.)	...			
35	Purneah ...	18 0	18 0	..	...	...	..	15 0	15 0	...	17 0	16 0	...	...	...	...
36	Maldah ...	18 8	18 0	15 0	...	...	..	12 0	10 0	10 0	14 0	14 0	12 8	...	...	...
37	Sonthal Perghs.	14 0	14 0	12 8	...	...	...	13 0	13 0	12 8	16 0	16 0	14 8	...	...	...
	ORISSA.															
38	Cuttack ...	14 7	10 8	10 8	...	...	...	10 8	10 8	10 8	15 12†	17 1	13 2	...	...	...
39	Pooree ...	10 8	10 8	9 5	...	...	...	13 2	13 2	11 13	17 1‡	21 0	14 7	...	...	...
40	Balasore ...	15 0	15 0	16 0	18 0	18 0	18 0	11 0	11 0	13 0	16 0	16 0	17 0	...	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	14 0 to 16 0	14 8 to 15 0	12 0	18 0	18 0	12 0	9 0	9 0	8 0	16 0	16 0	14 0	...	...	...
42	Lohardugga ...	8 0 (White.)	8 0 (White.)	...	...	...	...	14 0	...	12 0	16 0 (Ordinary.)	16 0 (Ordinary.)	14 0 (Ordinary.)	...	...	...
		14 0 (Red.)	14 14 (Red.)	10 0 (Red.)							19 0 (Coarse.)	18 0 (Coarse.)	... (Coarse.)			
43	Singbhoom ...	12 0	12 0	10 0	20 0	14 0	12 0	16 0	12 0	16 0	18 0	18 0	20 0	...	...	...
44	Manbhoom ...	14 0	14 0	12 0	...	...	...	12 0	13 0	12 0	18 0	19 0	17 0	...	...	...

* Present return not received.
† Price of common rice at Jajpore 19 seers 11 chittacks and at Kendrapara 18 seers 6 chittacks per rupee.
‡ Rise in price attributed to less importation owing to heavy rain.
§ At Cox's Bazar wholesale price of salt Rs. 5 per maund.
¶ In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Sasseram 10½ seers, and Bhabuah 9½ seers.
‖ In subdivisions retail prices of salt per rupee are :—Madhubani 10 seers and Samastipore 13½ seers.
** In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

CALCUTTA,
The 22nd July, 1890.

uly, 1890—(concluded).

SEERS OF 80 TOLAHS. ES PER MONTH.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi. (*Eleusine Coracana.*)			Kangni or Kakun, Italian millet. (*Setaria italica.*)			Gram, Chana, Chhola, Kadala, or Sunaga. (*Cicer arietinum.*)			r Horse-keeper.		Common Mason, Carpenter, or Blacksmith.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Corresponding return of last year.	Next preceding return.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
																	Eastern Districts—concluded.
...	...	...	...	...	...	...	...	...	12 0	12 12	11 8	8 0	12 0	9 8 to 12 0	9 4 to 12 0		Chittagong.
...	...	...	...	...	...	...	...	...		12 0	12 0	5 0 to 6 0	5 0 to 10 0	8 0 to 16 0	8 0 to 14 0		Noakholly.
...	...	...	...	...	...	...	...	...	10 10½	10 10½	16 0	7 0 to 8 0	8 0 to 15 0	8 0 to 15 0	8 0 to 15 0		Tipperah.
...	...	...	...	...	..	.	...	...	...	....	...	arable.	20 0 to 30 0	20 0 to 31 0	20 0 to 30 0		Chittagong Hill Tracts.
...	...	...	...	...	...	...	...	...	12 0	12 0	10 0 0	6 0	15 0	15 0	15 0		Hill Tipperah.
																	BEHAR.
...	...	...	25 0	25 0	...	19 0	19 0	11 0	21 0	21 8	20 0	4 8 to 5 0	7 0 to 8 0	7 0 to 8 0	7 0 to 8 0		Patna.
...	...	...	...	...	...	15 8	15 0	11 0	20 0	20 0	18 0	3 0 to 5 0	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0		Gya.
...	...	...	...	...	...	...	...	...	23 0	23 0	17 12	4 0 to 6 0	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8		Shahabad.
...	...	...	24 0	25 0	17 2	...	...	...	22 0	22 0	17 2	3 0 to 5 0	3 12 to 9 6	3 12 to 9 6	3 12 to 9 6		Durbhunga.
...	...	...	...	...	...	...	...	...	20 0	20 8	16 0	4 0 to 5 0	9 10 to 11 4	7 8 to 9 6	5 0 to 8 0		Mozufferpore.
...	...	...	22 0	22 0	19 0	16 0	16 0	10 0	21 4	21 8	18 4	4 0 to 7 0	6 9 to 10 0	6 9 to 10 0	6 9 to 10 0		Sarun.
...	...	...	...	22 0	...	...	...	...	22 0	23 0	16 0	4 0 to 6 0	5 10 to 9 6	5 10 to 9 6	5 10 to 9 6		Chumparun.
...	...	...	...	...	...	14 11	14 11	8 7	24 14	24 2	19 2	3 0 to 5 0	5 10 to 15 0	6 0 to 8 0	5 0 to 12 0		Monghyr.
...	...	...	...	...	...	...	...	...	22 11	22 11	17 10	3 8 to 5 0	7 8 to 9 6	7 8 to 11 4	7 8 to 11 4		Bhagulpore.
...	...	...	...	...	...	...	...	...	23 0	23 0	...	4 0 to 5 0	7 0 to 10 0	7 0 to 10 0	7 0 to 10 0		Purneah.
...	...	...	...	...	...	...	...	...	22 8	21 0	18 0	5 0 to 6 0	8 0 to 12 0	8 0 to 12 0	10 0 to 15 0		Malduh.
...	...	...	...	...	...	...	...	...	18 0	17 0	15 0	5 0	7 8 to 9 6	7 8 to 9 6	7 8 to 9 6		Sonthal Perghs.
																	ORISSA.
...	...	...	...	...	...	...	...	...	14 7	14 7	19 11	4 8	(Kalai.) 7 8 to 9 6	6 0 to 7 8	6 0 to 7 8		Cuttack.
...	...	...	...	...	...	...	...	...	14 6	14 7	15 12	5 0	(Kalai.) 7 8 to 9 6	7 8 to 10 0	8 0 to 10 0		Pooree.
...	...	...	...	...	...	...	...	...	14 0	14 0	14 0	4 0 to 6 0	7 0 to 10 0	7 0 to 10 0	7 0 to 10 0		Balasore.
																	CHOTA NAGPORE.
																	South-West Frontier Agency
...	...	...	28 0	27 0	20 0	...	...	...	16 8	16 0	15 0	5 0	8 0	7 8	8 0		Hazaribagh.
...	...	...	20 0	37 8	26 10	...	...	...	14 4	14 0	10 8	3 8 to 6 0	3 12 to 9 6	4 11 to 14 1	4 11 to 14 1		Lohardugga.
...	...	...	...	...	...	...	...	...	14 0	12 0	10 0	4 0	12 0	12 0	12 0		Singbhoom.
...	...	...	...	...	...	...	...	...	17 4	17 0	13 8	5 0	9 6 to 8 12	13 2 to 15 0	3 2 to 5 0		Manbhoom.

Jamui 9 seers.
d Arrarsah (Raneegunge) 10 seers.

Z2 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P	R. A. P.	R. A. P	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ..	2 11 2	2 11 11	2 14 3	2 1 1	2 3 1	2 3 3	4 3 10	4 5 2	4 6 2	2 13 1	2 13 2	2 14 0
2	Serajgunge ...	2 1 0	2 5 0	2 2 0	...	...	...	4 8 0	4 11 0	4 0 0	2 12 0	2 12 0	2 10 0
3	Dacca ...	3 0 0	3 0 0	3 0 0	2 7 0	2 7 0	1 8 0	3 0 0	3 4 0	3 0 0	2 13 0	3 0 0	2 12 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 2 0	3 0 0	2 14 0	2 14 0	2 12 0
5	Chittagong ...	3 8 0	3 8 0	3 12 0	...	...	...	3 4 0	3 4 0	4 0 0	2 10 0	2 8 0	3 3 0
6	Patna ...	2 4 6 Red. 2 6 6 White.	2 3 0 2 5 0	... 2 6 6	1 10 6	1 10 3	2 2 6	3 12 0	3 12 0	3 14 0	2 6 0	2 5 6	2 15 0
7	Balasore. ...	2 8 0	2 8 0	2 6 0	3 0 0	3 0 0	3 0 0	3 8 0	3 8 0	3 0 0	2 6 0	2 6 0	2 5 0
8	Pooree ...	...	..	...	...	...	..	...	...	...	2 4 0	1 14 0	2 6 0
9	Cuttack ...	2 10 0	3 10 0	3 10 0	...	...	...	3 10 0	3 10 0	3 10 0	2 5 0	2 2 0	3 0 0

CALCUTTA,
The 22nd July, 1890.

the undermentioned Marts of Bengal on the 15th July, 1890.

PRICES PER MAUND

	AR OR CHOLUM. (*...ghum Vulgare.*)			BAJRA OR CUMBU. (*Penicillaria typhoideum.*)		
	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
	1 15 6	...	2 14 0	2 15 2	3 2 4
	...	...	...	...	...
	...	...	...	...	...
	...	...	...	...	...
	...	...	...	...	...
	13 0	2 1 3	...	...	...
	...	...	...	...	...
	...	...	...	...	...
	...	...	...	...	...

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	ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
P.	R. A. P.	R. A. P.	R A. P	R. A. P.	R A. P.	R. A. P.	R. A. P.	R. A. P	R. A. P.	
	2 1 7	2 3 2	2 2 11	0 5 9	0 5 9	0 5 6	3 9 4	3 9 6	3 8 0	Calcutta.
	...	...	...	...	...	...	3 12 0	3 12 0	3 14 0	Serajgunge.
	3 0 0	3 0 0	2 6 0	0 4 0	0 4 0	0 4 0	4 2 0	4 0 0	3 15 0	Dacca.
	3 12 0	3 12 0	3 12 0	0 8 0	0 8 0	0 10 0	3 13 0	3 12 0	3 12 0	Naraingunge.
	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 14 0	Chittagong.
6	1 11 6	1 10 3	1 14 6	0 5 6	0 5 6	0 5 0	3 13 0	3 13 0	3 13 0	Patna.
	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 0 0	Balasore.
	...	..	...	...	...	...	3 7 0	3 8 0	3 12 0	Pooree.
	1 11 0	2 2 0	3 0 0	0 8 0	0 8 0	0 8 0	4 7 0	4 7 0	4 7 0	Cuttack.

Published for general [illegible]

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Beng

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 6 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature week.	Temperature. Variation from normal mean of week.
Orissa.	Pooree	Pooree ...	29·591†	29·603†	—	SW	336·†	90·7	15th July	79·6	16th July	89·1	81·3	85·2	—
		Gopalpore	29·579	29·601	+·047	SSW	357·	89·2	18th ,,	78·8	12th ,,	87·3	80·5	83 9	+1·2
		False Point ...	29·578	29·600	—·002	WSW	294·9	92·0	18th ,,	77·6	12th & 15th July	87 8	78·9	83·4	+0·4
	Cuttack	Cuttack ...	29·519	29 600	—·012	WSW	77·9	93·4	17th ,,	77·3	12th ,,	91·2	79·2	85·2	—1·9
	Balasore	Balasore ...	29·527	29·586	+ 001	SW	174 5	91·4	14th & 17th July	78·2	12th ,,	89·6	80 3	85·0	+1·9
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·566	29 591	+·007	SSW	432·0	89·7	14th ,,	79·0	12th ,,	87·9	81 2	84·6	+0·4
	Midnapore	Midnapore ...	29·435	29·584	+·001	S	133·2	94·3	17th ,,	77·1	12th ,,	90·6	79·3	85·0	+1·2
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	Calcutta .	29·563	29 585	+·001	SSW	75·1	90·0	17th ,,	77·2	12th ,,	87·8	79 2	83·5	+0·1
	Burdwan	Burdwan	29·470	29·570	—·016	S	114·1	93·6	17th ,,	78·4	17th ,,	90 4	80 2	85·3	+0 5
	Bankoora	Bankoora ..	29·258	29·555	— 008	SSE & C	107·0	94·1	18th ,,	77·1	17th ,,	91·5	78·9	85·2	+1·2
	Beerbhoom ... ... / West Burdwan	Raneegunge	29·241	29·593	+·011	SSE	60·3	94·0	17th ,,	75·9	18th ,,	90·4	78·9	84·6	0
	Moorshedabad	Berhampore	29·508	29·575	— 024	S	100·8	91·7	17th ,,	74·3	18th ,,	89·0	77·2	83·1	—1·3
	Nuddea	Krishnaghur..	29·534	29 582	—·001	ESE	125·3	91·8	17th ,,	74·3	17th ,,	89·3	77·6	83·5	—0·8
	Jessore ... ... / Khoolna	Jessore	29·560	29 593	—·012	SSE	86·2	92·3	17th ,,	76 4	17th & 18th July	88 6	78 9	83·8	—0·6
East Bengal.	Chittagong	Chittagong	29·574	29·664	—·003	SSE	144·3	86·1	12th ,,	67·0	12th ,,	86·1	74·7	80 4	—1·1
	Chittagong Hill Tracts	Demagiri .						Observations not received.							
	Backergunge	Barrisal .	29·603	29·617	+·009	Southerly	135 6	89·8	17th July	76·8	12th & 13th July	86·8	78 2	82 5	+0·1
	Noakholly	Noakholly ..	29·609	29·658	+·005	SE	207·9	86·5	17th ,,	74·8	14th ,,	84·7	76·4	80·6	+0·4
	Furreed[illegible]		29 573	29·613	—·004	S & SE	157·1	88 5	17th ,,	77·4	14th, 17th & 18th July	86 6	75·5	82·6	—0·6
							201·5	89·1	17th ,,	75·2	12th ,,	86·3	77 7	82 0	+2·1
	Dacca	Dacca	29·597	29·633	—·008	SE	190·5	88·4	17th ,,	75·3	12th & 16th July	86·0	76·0	81·0	—1·8
	Commillah	Commillah	29·547	29·605	—·027	SSE	125 2	86·7	17th ,,	77 0	12th, 17th & 18th July	85·3	77 6	81·4	—2 0
	Mymensingh	Mymensingh	29·512	29·575	—·015	ESE	85·8	92·8	17th ,,	77·1	12th ,,	88·6	78·2	83·4	—0 7
North Bengal.	Bogra	Bogra	29·546	29·593	—·022	South-easterly	71·1†	89 1	17th ,,	76·7	12th & 18th July	87·2	78·0	82·6	—1·3
	Pubna	Serajgunge	29 512	29 582	—·004	South-easterly	130·0	88 8	13th, 15th & 17th July	74·6	17th ,,	87 9	78 0	82·9	—1·0
	Rajshahye	Rampore Beauleah.	29·489	29·570	—	SE	64·6	91·8	15th ,,	75·9	18th ,,	90·3	78·2	84·3	—
	Maldah	Maldah ...	29·457	29·577	—·059	SE	86·9	90·1	16th ,,	79·1	12th & 18th	88·0	80·2	84·1	—0·6
	Dinagepore	Dinagepore	29 478	29·603	—·031	Variable	70·9	89·3	12th & 14th July	77·7	12th, 15th & 18th July	87·7	78·4	83·1	—1·2
	Rungpore	Rungpore	29·303	29·592	— 061	?	42 ..	89·4	14th ,,	75·1	15th, 16th July	86·7	75·9	81·3	—1·6
	Julpigoree ... ... / Cooch Behar	Julpigoree	22·830	—	—·072	Variable	92·8	67·1	16th ,,	55 6	14th ,,	65·2	57·2	61·2	—1·9
	Darjeeling Hill Tracts ...	Darjeeling .	29·441	29·567	—·032	North-easterly	71·2	90·7	14th ,,	75·4	18th ,,	87 8	77·0	82·4	—2·1
North Behar.	Purneah ... ... / North Bhagulpore ...	Purneah	29·356	29·536	—	Variable	186·8*	89·3	16th ,,	76·2	18th ,,	87·5	79·1	83·3	—
	Mozufferpore	Mozufferpore	29·383	29 550	—·042	Easterly	137·9	89·9	16th ,,	75·8	18th ,,	87·8	77·5	82·6	—2·
	Durbhunga	Durbhunga ..	29·330	29 558	—·021	ESE	260·4	92·2	16th ,,	75 0	17th & 18th July	88 8	77·6	83·2	—1·
	Chumparun	Motihari ...	29·353	29·517	—·022	South-easterly		90·3	18th ,,	74·6	18th ,,	88·3	77·4	82·9	—2·
	Sarun	Chupra † ..	29·186	29·539	—·030	S.-ely	66 3	91 3	16th ,,	75·0	18th ,,	88·4	79·5	84·0	0
South Behar.	Shahabad	Dehree .	29·202	29 534	—·033	S.-wly	1.4 6	89·9	16th ,,	76·7	18th ,,	87·5	78·3	82·9	—1·
		Buxar .	29·337	29·532	—·026	Variable	9·0	92·4	16th ,,	74·6	18th ,,	89·2	78·2	83·7	—1·
		Arrah ..				Calm									
	Gya	Gya ..	29·160	29·546	—·028	E	194·1	91·9	16th ,,	76·3	17th ,,	88·8	80·3	84·5	—1·
	Patna	Bankipore .	29·355	29·538	— 047	E & W	128·1	92 4	16th ,,	75·2	18th & 18th July	88 4	78·4	83·4	—2
	South Bhagulpore .. / Monghyr	Bhagulpore ...	29·382	29·543	—·031	Calm	21·9	91·2	16th ,,	76·0	18th ,,	88·2	78·1	83·2	—1
	Sonthal Pergunnahs ..	Deoghar ..	29·067	29 502	—·018	S.-ely	103·4	90·1	15th ,,	73·7	17th ,,	88·2	77·0	82·6	—1
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·578	29 571	—·015	South-westerly	187·9	85·9	16th ,,	72·2	12th ,,	85·0	73·7	79·4	0
	Lohardugga ... ... / Manbhoom	Ranchee ...	27·461	29 572	—·011	Variable	146·6	86·0	15th ,,	71·4	12th ,,	84·2	73 8	78·8	+0
	Singbhoom	Chyebassa ...	28·815	29·574	+·007	SW	61·8	92 9	17th ,,	76·7	12th ,,	90·6	78·1	84·4	+1
Assam.	Assam	Sibsagar ...	29·399	29·6 4	—·035	SW		92·6	14th ,,	75·5	18th ,,	89·6	77·4	83·5	—1
		Dhubri ...	29·484	29·6·1	—·026	SW	88 6	86 2	17th ,,	75·8†	16th ,,	84·9	77·1†	80·9†	—1
		Silchar ...	29·549	29·685	—·009	Calm	34·6	91·5	14th ,,	76·2	12th ,,	83·9	76·6	83·9	—1

* Means of 5 days. † Means of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for
The Humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The
are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during
stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

, week ending Friday, the 18th of July 1890.

Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
8·0	0·40	1·36	3·24	10·36	6·99	+3·37	32·07	17·12	+4·95	2·0	4·5	Pooree ...	Pooree	Orissa.
4·6	0·39											Gopalpore ...		
												False Point ...		
8·1	2·44													
7·3	0·55	0·92	3·14	8·66	7·20	+1·40	20·88	18·03	+2·35	3·0	4·0	Cuttack ...	Cuttack	
2·9	0·41	0·68	3·65	4·09	7·38	−3·29	21·16	18·36	+2·80	2·0	4·0	Balasore ...	Balasore	
9·3	0·44	0·22	3·95	4·18	8·65	−4·47	21·07	20·08	+0·39	2·0	4·6	Saugor Island ...	South-West Midnapore / South 24-Pergunnahs	South-West Bengal.
2·9	Nil.	0·35	2·66	3·92	7·16	−3·24	24·37	18·60	+5·77	2·0	4·0	Midnapore ...	Midnapore ...	
9·1	0·12	0·38	2·47	4·05	6·28	−2·23	23·34	18·82	+4·52	2·0	4·6	Calcutta ...	24-Pergunnahs... ... / Howrah ... ... / Hooghly	
7·0	2·00	2·48	1·84	6·65	5·33	+1·32	29·77	16·85	+12·92	2·7	3·9	Burdwan ...	Burdwan	
6·7	1·90	1·23	2·42	5·80	7·14	−1·34	24·48	10·25	+5·23	2·3	4·3	Bankoora ...	Bankoora	
6·6	3·18	2·91	2·47	9·12	6·74	+2·38	28·12	18·81	+0·31	3·8	4·3	Raneegunge ...	Beerbhoom ... ... / West Burdwan ...	
8·6	3·60	3·19	2·06	7·28	6·48	+0·80	21·57	18·75	+2·82	4·3	3·8	Berhampore ...	Moorshedabad ...	
7·9	4·63	2·90	1·66	6·64	5·82	+0·82	22·05	19·06	+3·59	3·6	3·8	Krishnaghur ...	Nuddea	
9·1	0·96	1·45	2·37	5·30	6·11	−0·81	24·62	21·80	+2·82	5·1	4·4	Jessore ...	Jessore ... ... / Khoolna	
9·0	2·76	5·76	6·25	19·74	16·31	+3·43	40·54	51·23	−1·69	5·5	5·5	Chittagong ...	Chittagong	
			2·95		8·87			32·58			5·3	Demagiri ...	Chittagong Hill Tracts	
8·0	4·17	3·73	5·74	8·79	9·91	−1·12	31·15	33·03	−1·88	6·3	5·8	Barrisal ...	Backergunge	East Bengal.
3·9	4·19	3·39	4·46	10·66	12·49	−1·83	38·46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
6·0	1·60	1·88	2·31	4·43	6·15	−1·67	17·10	23·05	−5·95	5·7	4·3	Furreedpore ...	Furreedpore	
9·9	1·70	2·36	3·28	9·09	7·76	+1·33	30·85	25·04	+5·81	5·3	4·6	Dacca ...	Dacca	
6·6	3·37	2·85	3·05	8·40	7·57	+0·83	29·29	26·26	+1·03	5·0	4·8	Commillah ...	Tipperah	
9·0	0·77	4·77	2·40	9·15	7·31	+1·84	36·33	29·76	+6·57	4·8	4·2	Mymensingh ...	Mymensingh	
6·1	1·97	1·97	2·45	4·43	7·53	−3·10	25·15	25·03	+0·12	5·5	3·8	Bogra ...	Bogra	
8·1	1·00	1·66	1·83	4·41	6·15	−1·74	21·07	21·12	−0·05	6·0	3·5	Serajgunge ...	Pubna	
3·7	3·23	6·40	2·47	8·94	7·05	+0·09	30·72	21·66	+9·06	5·7	3·8	Rampore Beauleah	Rajshahye	North Bengal.
5·3	2·07	2·41	2·52	4·53	7·62	−3·07	18·24	22·27	−4·03	5·0	4·4	Maldah ...	Maldah	
9·7	1·48	4·38	2·13	8·03	7·28	+0·75	28·03	24·97	+3·06	4·2	4·0	Dinagepore ...	Dinagepore	
4·4	2·08	2·95	2·15	5·03	8·49	−2·56	38·18	37·42	+0·76	6·0	3·1	Rungpore ...	Rungpore	
3·7	16·38	7·41	3·53	19·00	12·69	+6·31	66·07	52·53	+14·14	6·0	5·4	Julpigoree ...	Julpigoree ... ... / Cooch Behar	
9·9	10·27	14·53	5·83	34·33	21·30	+13·03	71·16	56·36	+14·80	7·0	5·5	Darjeeling ...	Darjeeling Hill Tracts	
9·9	6·54	5·97	2·24	12·03	8·15	+4·78	31·35	22·68	+8·67	5·4	3·5	Purneah ...	Purneah ... ... / North Bhagulpore ...	
7·4	10·12	4·62	2·09	9·05	6·97	+2·08	19·19	15·78	+3·41	5·3	3·0	Mozufferpore ...	Mozufferpore	North Behar.
7·7	6·94	7·11	1·57	10·59	6·84	+3·75	22·65	16·22	+6·43	5·3	2·4	Durbhunga ...	Durbhunga	
8·6	5·11	4·32	1·80	10·19	7·48	+2·71	20·50	17·52	+9·04	4·0	2·6	Motihari ...	Chumparun	
5·7	4·22	2·65	1·92	5·57	7·12	−1·55	17·77	14·67	+3·10	5·0	3·1	Chupra ...	Sarun	
5·4	0·77											Dehree ... / Buxar ... / Arrah ...	Shahabad	South Behar.
9·0	5·47	3·07	2·03	6·80	6·05	+0·64	17·61	11·91	+5·70	3·4	3·3			
7·9	2·89													
6·6	1·74	1·89	3·12	9·97	6·28	+3·69	24·07	13·30	+10·77	4·0	3·1	Gya ...	Gya	
10·6	4·71	3·14	1·88	8·17	6·51	−0·34	15·96	14·19	+1·77	4·5	3·3	Bankipore ...	Patna	
9·3	4·62	4·38	1·77	6·06	5·92	+0·14	20·87	14·62	+6·25	4·6	3·1	Bhagulpore ...	South Bhagulpore ... / Monghyr	
8·7	5·57	4·65	2·38	8·01	7·01	+1·00	25·99	18·53	+7·46	4·5	4·2	Boomka ...	Sonthal Pergunnahs...	Sonthal Parganas.
10·0	3·54	4·50	2·45	8·23	7·36	+0·87	20·57	16·99	+3·58	4·8	4·6	Hazaribagh ...	Hazaribagh	
8·7	2·67	1·08	2·66	4·51	7·07	−2·56	13·78	16·30	−2·52	6·7	4·6	Ranchi ...	Lohardugga ... ... / Manbhoom	Chota Nagpore.
		2·23	2·51	5·46	6·67	−1·21	19·22	16·49	+2·73	3·5	4·5			
8·3	0·06	0·19	3·50	5·16	7·30	−2·14	17·29	16·19	−0·90	2·0	4·7	Chyebassa ...	Singhbhoom	
9·6	4·53											Sibsagar	Assam	Assam.
9·0	2·38											Dhubri		
9·9	3·99											Silchar		

years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and positive when greater.
morning cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
ations. The means of the districts are the numerical averages of the rainfall values received in the districts, &c., from time to time.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of July 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 18th May 1890.	Average rainfall from 18th May to date.
			Saturday, 12th July.	Sunday, 13th July.	Monday, 14th July.	Tuesday, 15th July.	Wednesday, 16th July.	Thursday, 17th July.	Friday, 18th July.	Number of rainy days.	Rainfall of week.				
Orissa	Pooree	Pooree	.....	.....	.....	.....	0·36	0·02	.....	2	0·38	11·03	5·76	22·15	15·28
		Khurdah	.....	.....	0·02	.....	.....	.....	.....	1	0·02	13·76	7·10	29·81	18·71
		Banpur	.....	0·18	2·60	.....	0·42	.....	.....	3	3·60	8·09	6·95	15·03	14·97
		False Point	.....	.....	0·75	1·69	.....	.....	.....	2	2·44	8·57	6·15	21·28	19·57
		Gop											?		?
		Satpara											?		?
		Pipli											?		?
	Cuttack	Jagatsingpore	.....	.....	.....	0·25	0·57	0·25	.....	3	1·07	7·32	6·29	19·50	14·95
		Banki	.....	.....	.....	0·18	0·95	.....	0·15	3	1·28	9·83	7·40	24·38	18·00
		Cuttack	0·83	.....	.....	.....	.....	0·35	.....	3	1·18	10·46	7·71	25·92	22·02
		Kendrapara	0·22	0·02	.....	0·15	0·01	0·03	.....	5	0·43	6·92	7·34	15·25	18·12
		Jajpore	0·44	0·21	.....	.....	.....	.....	.....	2	0·65	6·77	7·54	21·31	19·95
		Dharmsala	1·00										?		?
		Salipore	0·33	.....	.....	0·20	0·50	.....	.....	3	1·03	8·02	?	21·97	?
	Balasore	Chandbali	0·12	.....	.....	.....	0·27	.....	.....	2	0·39	4·03	6·52	17·48	16·88
		Bhuddruck	0·65	.....	.....	.....	.....	.....	.....	1	0·65	4·87	0·73	23·30	18·72
		Sorah	.....	.....	0·70	.....	.....	.....	0·50	2	1·20	4·10	6·50	20·28	16·48
		Balasore	.....	.....	.....	.....	0·51	.....	.....	1	0·51	3·19	7·88	23·38	19·41
		Jellasore	.....	.....	.....	.....	.....	0·50	0·30	2	0·80	3·39	8·82	21·35	18·51
		Baripodah	0·05	0·12	.....	.....	.....	0·05	0·30	4	0·52	3·72	7·76	21·06	20·08
South-West Bengal.	Midnapore	Contai	.....	0·03	.....	0·01	.....	.....	0·15	3	0·19	3·12	8·30	23·18	19·90
		Saugor Island	.....	.....	.....	.....	0·41	.....	0·03	2	0·44	6·68	9·25	22·06	21·77
		Tumlook	0·30	.....	.....	.....	.....	.....	.....	1	0·30	3·80	6·04	25·50	17·70
		Midnapore	.....	.....	.....	0·04	.....	.....	.....	1	0·04	3·15	7·14	25·96	17·86
		Ghattal	0·32	0·04	0·01	.....	.....	0·35	.....	4	0·72	4·81	8·29	21·67	20·24
		Kukrahaty	.....	.....	.....	.....	.....	0·34	0·09	2	0·43	2·97	?	15·08	?
		Garbetta	.....	.....	.....	0·12	.....	0·22	0·08	3	0·42	2·79	?	18·09	?
	24-Pergunnahs	Diamond Harbour	.....	.....	.....	.....	0·02	.....	.....	1	0·02	2·72	8·40	17·91	20·39
		Canning Town	0·15	.....	.....	0·04	0·16	.....	0·14	4	0·49	4·88	?	23·45	?
		Alipore Jail	0·07	.....	.....	.....	0·04	.....	0·04	3	0·15	6·08	7·09	24·80	19·89
		Barrackpore	.....	.....	0·38	0·22	.....	.....	.....	2	0·60	4·13	5·59	20·43	18·37
		Dum-Dum	0·13	.....	.....	.....	0·14	.....	.....	2	0·27	3·43	5·78	19·87	18·56
		Baraset	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·58	5·26	20·77	17·65
		Busserhat	.....	.....	.....	0·50	0·14	.....	.....	2	0·64	4·01	6·52	25·51	21·43
	Howrah	Howrah	0·01	0·01	.....	.....	0·24	0·05	.....	4	0·31	5·27	6·58	21·72	18·72
		[illegible]	0·09	0·03	0·01	0·05	0·02	.....	.....	5	0·20	2·60	7·43	33·02	19·06
	Hooghly	Serampore	.....	.....	.....	0·02	0·03	.....	.....	4	0·37	3·83	5·93	20·67	17·82
		Hooghly	0·36	.....	.....	.....	0·15	0·64	.....	3	1·15	2·70	5·42	22·16	17·27
		Jehanabad	0·02	.....	.....	0·05	.....	0·05	.....	3	0·12	3·39	7·21	24·48	19·31
	Burdwan	Culna	.....	.....	.....	.....	.....	2·98	.....	1	2·98	5·41	5·41	26·13	16·08
		Burdwan	0·43	0·01	.....	.....	.....	1·53	0·03	4	2·09	8·19	5·35	31·94	16·48
		Cutwa	.....	0·39	.....	.....	.....	1·02	1·05	3	2·46	6·36	5·23	31·21	17·96
		Ranegunge	0·04	0·09	.....	0·19	.....	0·71	2·85	5	3·18	8·90	7·33	29·33	17·83
		Mankur	0·71	.....	.....	0·13	.....	0·42	0·25	4	1·51	6·26	?	27·30	?
	Bankoora	Bankoora	.....	.....	0·02	.....	.....	1·88	0·03	3	1·91	6·61	7·01	23·38	18·64
		Bishenpore	.....	.....	0·05	.....	.....	0·07	.....	2	0·12	3·84	6·41	25·86	18·61
		Mallara	0·80	.....	0·11	.....	.....	0·90	1·08	4	2·89	9·97	7·14	33·41	18·17
		Khatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·76	7·06	15·23	21·47
		Indas	0·99	.....	.....	.....	.....	1·36	0·06	3	1·81	12·01	?	31·00	?
		Kotalpore	1·38	.....	.....	.....	.....	0·54	.....	2	1·92	9·12	?	32·53	?
		Anda	.....	.....	.....	.....	1·61	.....	2·11	2	3·72	10·26	?	26·07	?
		Gangajalghati	0·15	.....	.....	.....	.....	0·32	1·15	3	1·62	8·87	?	35·06	?
		Ratpore	.....	.....	.....	.....	.....	0·15	.....	1	0·15	7·20	?	23·87	?
		Sonamukhi	3·52	.....	.....	.....	.....	.....	0·14	2	3·66	10·82	?	27·53	?
	Beerbhoom	Bh. Soory	0·83	.....	0·24	.....	.....	1·25	0·27	4	2·59	11·75	7·05	29·20	19·70
		Jetampore	.....	.....	0·10	.....	.....	0·77	0·43	4	2·75	7·94	7·18	26·59	20·21
		Rampore Haut	.....	.....	.....	.....	.....	2·40	0·72	2	3·12	7·80	5·39	27·26	17·43
		Bolpore	.....	.....	.....	.....	.....	1·65	1·00	2	2·65	6·54	?	25·89	?
		Mararai	1·50	.....	.....	.....	0·45	0·75	1·25	4	3·95	11·16	?	23·20	?
	Nuddea	Ranaghat	.....	.....	.....	.....	.....	4·05	0·06	2	4·11	7·45	5·65	24·90	18·12
		Kishnaghur	0·22	0·03	2·86	.....	0·02	1·54	0·08	6	4·75	7·19	5·48	26·67	17·00
		Chooadanga	0·08	0·52	.....	.....	.....	0·40	.....	3	1·00	5·86	6·12	19·60	19·91
		Meherpore	0·40	0·69	.....	.....	.....	2·50	.....	3	3·59	6·80	5·46	20·02	18·45
		Koushtea	0·20	.....	0·04	.....	0·02	0·87	.....	4	1·13	5·88	6·37	21·12	21·73
	Khoolna	Satkhira	0·05	0·03	0·01	0·40	0·10	0·21	0·28	7	1·08	3·70	7·18	25·02	2..
		Bagirhat	.....	0·42	0·35	.....	0·15	0·12	.....	4	1·04	4·64	7·72	31·00	25·23
		Khoolna	0·41	0·36	.....	0·10	.....	0·15	0·11	5	1·13	6·77	6·10	26·74	21·88
		Nakipore	0·65	0·53	.....	0·42	.....	.....	1·00	4	2·60	5·52	?	31·31	?
		Ramphal	.....	1·56	.....	.....	0·31	.....	0·27	3	2·14	6·20	?	29·25	?
	Jessore	Narail	0·48	0·05	0·16	.....	0·50	.....	0·02	5	1·21	4·37	4·99	25·46	19·69
		Jessore	0·06	0·31	0·08	0·04	0·06	0·35	0·06	7	0·96	4·48	5·82	26·43	23·04
		Jhenidah	0·35	.....	0·12	.....	.....	1·80	.....	3	2·36	8·00	5·58	20·86	21·87
		Magoorah	0·02	.....	0·02	0·06	0·02	0·42	0·09	6	0·63	4·65	5·81	20·85	21·71
		Bongong	.....	0·50	0·39	.....	.....	2·12	0·20	4	3·21	5·19	5·68	20·31	19·07
	Moorshedabad	Kandi	2·49	1·69	.....	.....	.....	0·45	0·52	4	5·15	7·35	7·11	21·47	19·22
		Berhampore	1·20	.....	0·19	0·23	0·03	1·00	1·04	6	3·60	5·42	6·39	16·72	18·27
		Lalbagh	0·24	.....	0·96	0·15	.....	1·98	2·11	5	5·38	9·20	5·99	21·09	17·52
		Azimgunge	.....	.....	0·99	.....	0·30	0·19	0·77	4	2·16	6·89	5·81	24·92	18·05
		Jungipore	1·12	.....	0·01	0·18	.....	0·97	0·06	5	2·04	4·98	6·28	17·46	18·01
		Lalgola	.....	.....	.....	0·50	.....	.....	0·30	2	0·80	5·23	7·31	26·69	20·34
		Jiagunge	0·15	.....	0·37	0·17	.....	0·14	0·65	5	1·78	6·17	?	22·79	?
		Akhriganj	0·05	0·18	0·11	0·09	.....	1·45	0·22	6	2·10	9·70	?	28·43	?
		Pathadari	0·40	0·40	.....	.....	1·10	.....	2·30	4	4·20	9·10	?	28·60	?
East Bengal	Chittagong	Cox's Bazar	1·89	1·03	0·70	.....	0·40	0·20	4·20	6	8·73	18·59	22·14	59·69	51·95
		Chittagong	0·38	0·45	.....	.....	0·90	0·52	0·54	5	2·79	20·38	10·46	39·14	40·47
		Kutubdia	2·50	0·35	0·37								?		?
		Satkanya	0·50	0·59	0·13	.....	.....	0·48	0·50	5	2·11		?		?
	Chittagong Hill Tracts	Rangamati	0·19	0·37	.....	1·05	0·37	0·36	.....	5	2·25	7·28	5·83	26·35	35·10
		Rema											8·05		32·00
	Backergunge	Patuakhally	0·50	1·50	1·28	0·07	.....	.....	2·00	5	5·35	8·35	11·54	32·18	26·36
		Perosepore	0·05	0·11	1·37	0·95	1·16	0·08	0·12	7	3·85	9·12	8·72	29·67	28·69
		Burrisal	0·34	0·25	0·80	0·32	.....	0·10	1·90	6	3·71	10·22	6·25	34·69	28·92
		Bhola	0·27	0·12	0·19	0·29	0·15	0·51	0·20	7	2·03	6·98	11·11	28·06	30·13

tement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of July 1890—contd.

ological sion.	District.	Station.	Rainfall. Saturday, 12th July.	Sunday, 13th July.	Monday, 14th July.	Tuesday, 15th July.	Wednesday, 16th July.	Thursday, 17th July.	Friday, 18th July.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
ENGAL old.		*Gournaddi* ..	0·45	0·70	0·50	0·36	0·13	0·10	0·08	7	2·32	6·17	?	21·05	?
		Bauphal ..	0·49	0·08	1·08	0·54	.....	.....	1·04	5	3·23	8·00	?	27·52	?
	Noakholly ...	Noakholly ..	0·64	1·33	0·84	0·25	0·74	0·22	0·03	7	4·15	11·00	12·13	35·08	42·33
		Feeny ..	0·13	0·10	0·27	0·18	0·31	0·63	0·50	7	2 42	10·20	12·84	41·80	46·18
		Harishpore ...	0·50	...	0·20	3·80	0·45						?		?
		Ramganj ...	0·46	1·50	0·70	0·46	.....	0·50	2·40	6	6·02	12·70	?	37·64	?
	Furreedpore	Madaripore ...	0·40	0·35	0·50	0·04	0·63	0·04	0·08	7	2·04	5·57	6·34	18·06	23 94
		Furreedpore...	0 08	0·98	0·06	0·06	0·15	0·02	... ..	6	1·65	3·31	6·25	15·88	23·79
		Goalundo ...	0·51	.....	0·55	.....	0·23	0·65	.....	4	1·94	4·34	5·81	17·34	21·40
	Dacca ...	Munshigunge	0·12	0·40	0·50	0·06	.....	0·13	.....	5	1·51	9·26	8·72	33·49	28 86
		Dacca ...	0·76	0·16	0·57	0·06	0·10	0·96	.....	6	2·11	10·84	6 88	30·36	24·55
		Narainganje	1·02	0·59	0·43	.....	.. ...	0·54	0·13	5	2·71	10 52	9 04	33·81	26·57
		Manickganje	0·20	0 19	0·10	... .	.....	1·85	0·32	5	2·72	5 70	6 37	27·07	20·05
		Joydebpore ...	0·64	0·06	0·52	0·07	0·13	1·83	0·08	7	3·13	7·14	?	30 07	?
	Hill Tipperah	Agartola ...	0·37	0·10	.....	0·19	0·55	0·73	... .	5	1·94	7·92	6 45	31·38	25 21
	Tipperah ...	Comilla ...	0·30	1 00	0·39	.....	0·53	0·62	0·44	6	3 29	10·44	8·30	30·75	32·07
		Chandpore ...	.....	.	1·05	1·00	0·80	...	0·60	4	3·45	8·22	8·67	29·80	24·71
		Brahmunberia	.....	0·20	0·11	.....	0·60	0·80	1·00	5	2 71	6·08	0·73	25 17	27·05
		Ramchandra-pore ...	0·52	0·48	0·67	0·17	0·18	0 28	0·67	7	2 97	16·29	?	35·73	?
		Nasirnagar...	.....	... .	0·30	0·25	.....	0·30	2·00	4	3 75	4·90	?	21 72	?
		Daudkandi ...	... ..	.....	.....	0 25	.....	.....	. ...	1	0·25	1·97	?	14 71	?
		Kasba ...	.....										?		?
		Laksham ...	.....	0·75	0·65	.....	.....	.....	1·10	3	2·50	13·29	?	36·75	?
	Mymensingh..	Kishoreganje	0·52	.....	... .	.....	.....	2 14	0·41	3	3·07	6·55	7 17	32·68	31·13
		Atia (*Tangail*)	..		0·12	... .	... ..	2·96	....	2	3 08	6·31	6·28	29·01	23 06
		Mymensingh	0·20	0·82	0·73	0·17	1·41	1·50	2·13	7	6 99	11 72	7·72	34·71	32·08
		Jamalpore ...	0·67	0 66	0·02	0·19	0·12	0·17	... .	6	1·83	5·26	6 76	33·67	26 04
		Netrokona ...	0·09	1·01	0·07	.....	1·85	4·55	1·33	6	8·90	15·90	8·59	47·88	35·99
		Subornakhally	0·01	0·15									?		?
		Durgapore ...	0·10	.....	2·00	.....	1·50	3·30					?		?
		ShereporeTown	... ..	.. ...	0·46	....	.....	0·77	0·08	3	1·31	3·16	?	26·85	?
		Dewanganj ...	.....	.....	.....	1·50	.....	0·40	... ..	2	1·90	3·79	?	30·52	?
RTH NGAL.	Pubna ...	Pubna ...	0·03	0·02	0·67	0·23	0·15	1·32	.....	6	2·32	4·94	5·91	19·78	20·47
		Seraigunge ...	0·23	0·14	0·29	.....	0·01	0·08	0·24	6	0·99	[illegible]	[illegible]	[illegible]	21·74
	Rogra ...	Sherepore ...	0·31	0·48	0·13	0·65	0·26	...	[illegible]	[illegible]	[illegible]	5·26	7·67	25·17	25 29
		Nowkhilla ...	0·17	0·15	0·32	0·20	0·48	0·21	0·02	7	1·55	3·76	6·23	21·80	22 94
		Bogra ...	0·08	0·67	0·22	.....	.. ...	1·45	0·03	5	2·45	4 76	8·26	22·60	27·90
		Panchbibi ...	0·50	0·19	0·97	... .	.....	0·29	0·15	5	2·03	3·92	7·95	30·95	24·04
	Rajshahye ...	Beauleah ...	0·14	... ..	0·04	.....	0·06	1·00	0·82	5	2 06	8·87	7·68	29·38	20·45
		Nattore ...	0·18	1·65	0·12	0·10	0 21	2·70	0·07	7	5·03	9·32	7·08	37·40	2.. 52
		Naogaon ...	2·50	.. ..	0·15	.. .	0·11	0·13	0·21	5	3·10	5 92	5·78	25·39	21·00
		Lalpore ...	0·15	0·10	.....	0·30	.....	0·15	.. ...	4	1·00	4 45	?	15·86	?
		Manda ...	... ..	.. ...	.....	.....	.....	0·80	0·20	2	1 00	5·25	?	15·75	?
	Maldah ...	Maldah ...	0·37	0·02	0·12	0·01	.....	.....	1·55	5	2·07	4·32	7·77	19·07	21·34
		Chanchal ...	0·22	0·15	0·06	0·11	. ..	.....	1·67	5	2·75	4·77	7 88	17·39	21·17
		Gajol ...	0·19	1·00	3·80	. ...	.....	... .	2·00	4	6·99	8·47	?	24·00	?
		Sibganj ...	0·28	0·05	.....	0·06	... ..	0·58	1 91	5	2·80	8·45	?	27·34	?
	Dinagepore ...	Mohadebpore	0·31	0·34	.....	.....	1·73	....	.....	3	2·38	6·44	6·54	23·37	23 11
		Churamon ...	0·02	...	3·18	.	... ..	1·18	1·52	4	6·48	8·73	7·44	29·22	22·42
		Raigunge ...	... ..	0·81	0·79	2·80	... ..	0·80	1 15	5	5·85	10 64	7·07	30 30	25·31
		Dinagepore ..	0·78	0·06	0·91	... ..	0·31	.....	0·27	5	2 53	6·94	8·01	30·03	29 31
		Balcorghat .	0·24	2·29	1·82	... .	.. ..	.....	0·49	4	4·84	7·43	7·34	27 17	24 61
		Thakoorgaon	0·08	0 19	1·38	1·03	0·50	.....	1·63	6	5·41	9·07	?	41·59	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	0·28	.....	0·50	0·47	0 11	0·05	0·41	6	1·82	4·14	6·48	32·49	24·90
		Rungpore ...	0·12	0·11	0 01	0·12	0·40	0 05	1·44	7	2·25	4 02	10 83	32·97	37 31
		Kurigram ...	.....	... ..	.....	1·45	0·40	2·70	0·54	4	5·09	6·41	7 97	41·04	39·87
		Bagdogra (*Nilphamari*).	0·38	0·04	0·54	0·28	0·18	0·84	0·38	7	2·64	8·20	8·08	46·30	43·64
		Ulipore ...	0·12	.....	.....	0·43	.....	.....	0·64	3	1·19	2·06	?	31·03	?
	Julpigoree ...	Julpigoree ..	0·25	2·88	1·25	6·99	1·71	0·80	1·90	7	15·78	28·87	17·61	73·04	53 67
		Alipore Dooar	0·13	0·04	0·25	1·45	1·47	3·10	0·47	7	6·91	23·71	?	82·37	?
		Fallacotta ...	0·56	0·35	0·84	2·88	2·20	1·18	0·88	7	8·89	29·25	?	75 15	?
		Debiganj ...	.....	0·37	0·95	3·07	0·64	0·12	0·15	6	5·00	10·24	?	49·88	?
		Bhagatpore (Nagrakatta).	0·28	0·85	0·71	0·41	2·06	1·02	3·34	7	9·27	30·71	8·39	66·86	?
		Dinhatta ..	.....	.....	0·18	0·06	0·05	0·29	0·11	5	0·69	3·69	12·96	47 44	48·09
	Cooch Behar..	Cooch Behar..	0·38	.....	0·65	1·10	4·23	0·58	.....	5	6·94	18·79	11·09	71·41	5··88
		Mickliguuge..	0·09	1·03	0·43	1·43	2·09	0·34	0·45	7	6·67	19·01	12·77	69·06	4· 02
		Mashbhanga...	0·75	0·57	0 81	3·71	1·07	0·04	.....	6	6·95	24·61	12·77	72·80	53·57
			1·55	1·50	2·23	1·69	1·94	1·65	5·38	7	13·94	38·06	32·91	88·45	91·81
	Darjeeling Hill.	Buxa ..	0·23	4·20	5·89	2·16	1·43	1·14	5·43	7	20·48	41·17	19·79	80·05	5· 99
		Silliguri ..	0·28	0·52	3·61	1·15	0·23	0·07	4·41	7	10·27	28·46	17·78	63·23	45·69
		Darjeeling ...	0·37	0·74	8·65	0·68	0·36	1·23	1·40	7	13·49	29·63	14·72	52·59	34·93
		Kalimpong ..	0·40	1·50	7·84	0·35	0·24	1·35	8·30	7	19·98	41·56	?	89·13	?
		Kurseong ...													
RN BEHAR.	Purneah ...	Kissengunge ...	... ...	0·12	0·75	0·84	3·15	1·56	0·95	6	7·47	14·56	10·54	40·92	20·97
		Arrareah ...	.....	0·38	1·72	0·78	3·28	0·54	1·23	6	7·96	16·49	9·48	34·95	25·65
		Purneah ..	0·01	2·35	0·07	1·39	0·05	0·49	2·18	7	6·54	12·24	7·56	35·31	22·19
		Gondwara ...	... ..	.....	.....	.....	.....	.....	3·00	1	3·00	5·86	?	14·74	?
		Baleerampore	0·10	.....	2·50	2·70	0·37	.....	0·80	5	6·27	11·84	?	29·89	?
		Mastari ...	.....	0·17	.....	0·61	.....	2·20	0·47	4	3·45	8·09	?	22·72	?
		Kaliaganj ...	.....	0·60	3·27	.....	0·27	0·83	2·50	5	6·97	12·98	?	44·15	?
	North Bhagulpore.	Maddapore ...	.....	.....	1·80	.....	.....	2·25	1·16	3	5·21	12·62	7·06	28·48	18·10
		Soopool ...	.....	.....	0·88	0·15	0·37	0·32	1·00	5	2 72	9·46	6·13	18·25	47·79
		Protabganj...	.....	0·50	0 27	.....	3·28	2·12	.....	4	5·17	9·04	?	20·51	?
	Durbhunga ...	Tajpore ...	.....	0·32	0·46	0·05	.....	0·48	6·88	5	8·19	10·51	7·18	19·95	16·82
		Durbhunga ...	.....	0·05	0·06	0·11	0·42	0·38	5·32	6	6·94	12·03	7·05	24·18	16·25
		Madhubani ...	.....	0·05	0·12	.....	0·42	0·59	4·12	5	6·20	9·24	6·31	23·53	16·88
		Bahera ...	.....	0·32	0·40	0·80	0·15	0·06	2·25	6	3·98	7·86	?	22·69	?
		Rashera ...	0·65	0·10	.....	0·05	0·15	1·90	0·60	6	3·45	5·45	?	16·05	?
	Monufferpore	Sitamarhi ...	0·06	0·04	0·08	.....	0·57	1·49	2·93	6	5·16	8·03	6·84	18·19	16·33
		Monufferpore	0·07	0·04	0·32	.....	.....	0·12	4·72	5	5·27	9·03	7·24	19·03	15·20
		Hajipore ...	0·10	0·36	0·20	0·13	.....	.....	2·65	5	3·43	10·10	6·82	26·34	14·76
		Pare ...	.....	0·11	.....	.....	.....	0·52	1·32	4	2·36	9·10	?	19·37	?
		Mahua ...	.....	0·45	.....	.....	.....	2·75	0·65	3	3·85	9·24	?	31·30	?
		Sisher ...	.....	0·25	0·20	.....	.....	1·10	2·80	4	4·35	7·28	?	20·08	?
		Pupri ...	.....	0·14	.....	.....	0·07	1·17	3·40	4	4·78	8·99	?	31·29	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of July 1890-

Meteorological Division.	District.	Station.	Rainfall. Saturday, 12th July.	Sunday, 13th July.	Monday, 14th July.	Tuesday, 15th July.	Wednesday, 16th July.	Thursday, 17th July.	Friday, 18th July.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.
North Behar —*concluded*	Chumparun...	Motihari ...	.....	0·13	.....	.....	.....	2·43	2·88	3	5·38	11·02	6·76	29
		Bettiah ...	.....	.....	0·34	0·03	0·77	0·80	1·32	5	3·26	9·35	8·21	24
		Bagaha ...	.....	.....	0·02	.....	0·72	1·97	1·39	4	4·10	13·49	?	30
		Burhurwa ...	.....	0·08	0·15	.....	0·71	0·50	0·74	5	1·98	5·05	?	20
	Sarun ...	Gopalgunge ...	.....	.....	0·10	.....	0·50	0·30	0·74	4	1·64	4·11	7·39	14
		Newan ...	0·24	.....	0·29	0·20	0·24	0·84	0·16	6	1·97	6·71	7·04	20
		Chuprah ...	0·64	.....	.....	0·09	0·15	2·58	0·88	5	4·34	5·89	6·94	17
South Behar	Shahabad	Buxar ...	2·74	0·31	0·04	.....	2·02	.....	2·10	5	7·21	9·23	5·62	20
		Dehree ...	0·07	.....	0·21	.....	0·05	0·03	0·41	5	0·77	2·86	6·37	18
		Bhaboosh ...	.....	.....	.....	0·30	.....	0·25	2·50	3	3·05	6·85	6·77	16
		Sasseram ...	0·76	.....	.....	.....	.....	.....	.....	1	0·76	3·69	5·43	18
		Arrah ...	.....	1·45	.....	.....	0·04	.....	2·08	3	3·57	10·83	6·09	24
		Mohaniah ...	.....	.....	.....	.....	0·09	0·32	1·90	3	2·31	4·91	?	11
	Gya ...	Aurungabad...	0·11	2·43	.....	.....	0·27	.....	0·43	4	3·24	7·46	6·38	17
		Gya ...	0·22	.....	0·93	0·07	.....	.....	0·52	4	1·74	12·54	5·70	23
		Nowadah ...	.....	0·43	0·07	0·10	.....	1·17	0·24	5	2·01	11·58	6·28	29
		Jehanabad ...	0·12	0·08	.....	.....	.....	.....	0·35	3	0·55	8·28	6·75	25
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	
		Daudnagar ...	0·12	0·14	0·20	0·60	0·40	0·70	1·22	7	3·38	5·38	?	9
		Sherrghati ...	0·12	.....	0·65	0·32	.....	.....	0·12	3	1·21	4·92	?	11
		Rajauli ...	1·00	0·11	0·44	0·10	.....	0·08	0·40	6	2·13	5·56	?	18
		PakriBarawan	0·80	.....	0·60	1·50	.....	.....	0·85	4	3·75	8·05	?	27
	Patna ...	Patna ...	0·05	1·70	0·02	.....	0·08	.....	2·86	5	4·71	7·76	6·49	17
		Dinapore ...	0·37	.....	.....	.....	0·10	1·25	1·95	4	3·07	5·93	6·21	15
		Behar ...	.....	.....	1·19	0·10	.....	.....	0·80	3	2·09	5·90	6·19	18
		Barrh ...	0·15	0·24	0·40	.....	0·10	0·20	1·00	6	2·09	5·09	6·84	18
		Bukram ...	.....	0·73	0·95	.....	1·10	.....	3·03	4	6·71	12·78	?	26
		Hilsa ...	1·00	0·10	.....	.....	1·08	.....	2·51	4	4·78	8·28	?	24
	Monghyr ...	Begooserai ...	0·06	.....	0·46	0·57	.....	.....	1·29	4	2·38	3·29	6·08	14
		Monghyr ...	.....	0·13	0·12	1·73	.....	.....	3·77	4	5·75	6·03	6·15	23
		Jamui ...	0·35	0·53	2·64	0·22	.....	0·29	3·11	6	7·14	8·68	6·19	28
		Gogri ...	0·06	.....	.....	2·27	.....	.....	5·87	3	8·80	10·84	?	25
		Sheikpura ...	.....	.....	2·70	.....	.....	.....	.....	1	2·70	4·00	?	19
	South Bhagulpore	Bhagulpore ...	1·42	0·48	1·62	.....	0·32	.....	0·88	5	4·77	8·52	5·42	21
		Banka ...	0·06	.....	0·60	0·18	.....	.....	1·04	4	1·88	3·17	5·77	15
		Kalgong ...	0·10	1·20	.....	0·10	.....	1·85	0·25	5	3·50	15·23	?	32
		[redacted]	.....	1·05	.....	.....	.....	2·07	0·86	3	3·98	7·14	?	19
	Sonthal Pergunnahs.	Rajmehal ...	0·75	.....	.....	0·12	.....	.....	1·87	3	2·74	5·76	8·11	21
		Godda ...	0·14	0·46	1·78	0·48	.....	.....	2·65	5	5·51	8·85	5·73	22
		Pakour ...	0·56	0·03	2·05	0·01	.....	1·96	0·73	6	5·04	8·79	7·70	34
		Nya Doomka	0·35	.....	0·90	.....	.....	3·91	0·51	4	5·57	10·91	6·08	27
		Deoghur ...	0·72	.....	0·21	.....	.....	0·61	3·15	4	4·69	6·48	6·85	19
		Jamtara ...	0·13	.....	0·14	0·26	.....	2·55	0·64	5	3·73	7·27	6·95	29
		Mohagama ...	0·65	.....	.....	.....	0·15	.....	2·12	3	2·92	7·30	?	22
		Namkat ...	.....	0·21	0·85	.....	.....	1·66	1·05	4	3·77	5·02	?	12
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	1·10	0·38	0·02	.....	.....	0·02	0·07	5	3·09	7·60	6·66	27
		Hazaribagh ...	0·73	0·02	0·52	.....	.....	0·05	2·22	5	3·54	9·41	7·14	19
		Semtagurah	0·12	2·32	.....	.....	.....	2·86	0·10	4	5·30	7·57	7·07	16
		Mahudi Hills											6·41	
		Jhoomra Hills	0·70	0·70	.....	.....	1·10	1·10	1·30	5	4·90	7·80	5·55	22
		Barhi ...	2·35	.....	1·60	0·10	0·70	.....	1·00	5	5·65	8·53	?	17
		Chatra ...	0·45	.....	0·40	0·80	.....	0·75	0·40	5	2·80	7·75	?	15
		Karagdeha ...	2·57	0·20	0·60	.....	.....	0·47	0·41	5	4·34	6·57	?	24
		Kamghar ...	.....	.....	.....	.....	.....	.....	0·90	1	0·90	5·20	?	15
	Lohardugga ...	Lohardugga ...	.....	0·55	0·35	.....	0·12	0·21	0·07	5	1·30	5·93	7·11	14
		Ranchi ...	.....	.....	.....	.....	0·22	0·05	0·25	3	0·52	3·14	7·35	13
		Palamow ...	.....	.....	0·18	0·55	.....	.....	0·08	3	1·41	4·46	6·77	13
		Silli ...	.....	.....	.....	.....	.....	0·60	1·40	2	2·00	4·50	?	14
		Balumat ...											?	
		Jossenabad...											?	
		Garwah ...	0·21										?	
	Singbhoom ...	Chyebassa ...	.....	0·08	0·11	.....	.....	.....	.....	2	0·19	5·16	7·30	17
		Chakradharpore.											?	
		Ghatsilla ...	0·05	0·12	.....	.....	.....	.....	0·10	3	0·27	7·85	?	22
		Baharagura...											?	
	Manbhoom ...	Purulia ...	.....	.....	0·32	3·11	.....	.....	0·15	3	3·58	7·21	6·89	22
		Gobindpore ...	.....	.....	0·11	0·17	.....	0·41	0·19	4	0·88	3·70	6·45	15
		Raghunathpore.	.....	.....	.....	0·23	.....	.....	4·14	2	4·36	8·13	?	24
		Barrabhoom	.....	.....	1·20	1·00	.....	0·62	.....	3	2·82	8·35	?	20
		Jhalda ...	.....	.....	.....	0·52	.....	0·19	1·71	3	2·42	5·36	?	17
		Chas ...	.....	.....	.....	.....	0·26	0·05	0·64	3	0·95	3·20	?	19

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If an are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 22nd July* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 18TH OF JULY 1890.

SETTLED weather has prevailed throughout the week, the chief feature being the weak monsoon which has been blowing in the west of the Bay, while in the eastern and northern districts general and in some cases very heavy rain has fallen throughout the week. In Orissa and the adjacent part of South-West Bengal practically no rain has fallen, but in the opposite corner of the province, in the east of North Bengal, excessively heavy rain has been received, excess in the Darjeeling hill tracts amounting to 13 inches.

The week commenced with the usual wind circulation, pressure slightly low and falling slowly in the northern districts, temperature one or two degrees below the normal in all districts, and light general rain except in the west. The wind circulation remained unchanged till the middle of the week, pressure changing slowly on the 12th and 13th, then rising rapidly for one day and again slowly on the 15th, after which a rapid fall set in, a shallow low-pressure area forming in the west of Behar and gradually extending eastwards till considerable defect prevailed in all the northern districts. General rain fell during these days in Behar, North and East Bengal, the falls being unusually heavy in the Darjeeling Hill districts and adjacent plains on Monday the 14th and 15th, diminishing in amount on the 16th, but again increasing after the rapid pressure changes during the latter half of the week. Temperature did not differ much from the normal in the first half of the week, and the usual small oscillations continued in all districts except North Bengal and Behar, where cool weather prevailed towards the end of the week. When the depression began to form in the west of Behar on the 16th, westerly winds commenced, and the current being comparatively dry, rain was much lighter on the 16th and 17th till pressure rising rapidly in North Bengal on Friday, the last day of the week, the easterly current again set in and very heavy rain was received at all the northern stations, especially in the west of Behar. On the 17th the westerly current extended as far east as Rungpore and Dhubri, but in the northern half of South-West Bengal and East Bengal light irregular winds were blowing, and the heaviest rain on this day fell in these districts. The absence of rain in the western districts was probably due to the comparatively dry westerly winds which have been blowing without interruption from Central India and extending as far west as the centre of South-West Bengal, so that the current from the Bay has been confined to the east and [redacted] Behar.

Pressure—Rose briskly to rapidly on Monday, and fell rapidly about the middle of the week, but at other times changes have been unimportant. The means for the week are everywhere slightly in defect, the greatest differences being between ·03 and 04 inch in North Bengal and Behar. In the lower districts the means are very nearly normal, defect being generally only a few thousandths of an inch.

Temperature—Has been considerably below the normal in Assam, North Bengal, and Behar, in consequence of the heavy rain which has fallen in these districts, but in Orissa, South-West Bengal, and Chutia Nagpur, where there has been a partial break in the rains, it has been slightly above the normal. Defect in North Behar is 2·3°, in Assam 2°, in North Bengal and South Behar between 1° and 1·5°, while excess is ·7° in Orissa, and the means in the other districts differ from the normal by less than half a degree.

Rainfall—As stated above, was excessively heavy in the northern districts of North Bengal and part of North Behar on Monday the 14th and again on Friday the 18th; but on the latter date the rainfall area extended further south, nearly all the stations in Behar reporting from two to five inches. Some of the heaviest falls on the 14th are—Kalimpong 8·6, Kurseong 7 8, Siliguri 5·9 inches, and Julpigoree received 7 inches on the 15th. On the 18th Kurseong reported 8·3, Siliguri 5 4, Tajpore 6·9, Durbhunga 5·3, Mozufferpore 4·7, Gogri 5·9, and Bickram 4 inches. In Orissa and the adjacent parts of South-West Bengal and Chutia Nagpur the total falls for the week are in almost all cases under half an inch. In the northern part of South-West Bengal and in East Bengal, falls are in many cases between 1 and 2 inches and at a few stations over 3 inches, the heaviest being in Moorshedabad and Backergunge. In Pubna, Bogra, Rajshahye, Maldah, and Rungpore, the average fall is about 2 inches, in Dinagepore 5 inches, but in Julpigoree and the Darjeeling hills heavy falls are reported, the average for the latter being 15 inches. In North Behar falls are generally between 4 and 6 inches, the heaviest being in Purneah and Durbhunga. Amounts are more variable in South Behar and the northern parts of Chutia Nagpur, and generally lie between 2 and 5 inches.

The mean fall for North Behar is 5·1 inches, for East and North Bengal and South Behar about 3·5 inches, Chutia Nagpur 2·2 inches, South-West Bengal 1·6 inches, and Orissa 1 inch. Excess in North Behar is 3·1 inches, and defect in Orissa over 2 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 18th of July 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	93·4	77·3	89·0	80·0	84·5	+0·7	0·95	3·15	—2·20	2·2	4·1	—1·9	7·22	7·02	21·50	17·89
South-West Bengal ...	94·3	74·3	89·5	79·0	84·3	+0·1	1·63	2·37	—0·74	3·5	4·3	—0·5	5·74	6·48	24·07	19·85
East Bengal	89·8	67·0	86·0	77·0	81·5	—0·4	3·37	3·32	+0·05	5·5	5·0	+0·5	9·32	8·89	31·90	31·53
North Bengal	92·8	74·6	88·1	78·1	83·1	—1·2	3·88	2·51	+1·37	5·5	4·1	+1·4	8 76	8·50	35 90	31·56
North Behar	90·7	74·6	88·0	77·7	82·9	—2·3	5·10	1·97	+3·13	5·1	3 0	+2·1	10·04	7·41	24·31	17·99
South Behar	92·4	73·7	88·4	78·5	83·5	—1·3	3·55	2·04	+1·51	4·2	3·6	+0·6	7·44	6 38	21·31	14·73
Chutia Nagpur	86·0*	71·4*	84·6*	73·3*	79 0*	+0·3*	2·20	2·62	—0·42	3·5	4·6	—1·1	5·92	7·15	17·04	16·82
Assam	92·6	75·5	87·8	77·1	82·4	—2·0										

* Chyebassa not included.

Meteorological Office, Bengal; C. Little,
The 22nd July 1890. *Offg. Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteoro- [redacted] Office, Chowringhee, from 13th to 19th July 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
July 1890...	13th ...	29·578	84·3	89·0	9·4	79·6	83·6	80·5	1·001	79·3	87	...
,, ,, ...	14th ...	·645	84·9	91·0	12·2	78·8	84·6	80·5	·987	78·8	83	...
,, ,, ...	15th ...	·667	84 0	89·2	10·4	78·8	81·6	79·5	·981	78·7	91	0·11
,, ,, ...	16th ...	·610	86·2	91·5	10·7	80·8	86·6	82·5	1·057	80·9	84	...
,, ,, ...	17th ...	·511	85·2	89·0	7·7	81·3	85·6	79·5	·927	76·7	76	...
,, ,, ...	18th ...	·519	86·0	91·0	10·0	81·0	87·6	83·5	1·094	82·0	84	...
,, ,, ...	19th ...	·518	85·2	91·0	11·7	79·3	87·0	81·5	1·003	80·0	78	...

	Inches.
The mean 10 A.M. pressure of the seven days	29·577
	°
The mean temperature of the seven days	85·1
The extreme variation of temperature	12·7
The maximum temperature	91·5
	%
The mean 10 A.M. relative humidity of the seven days	83
	Inches.
The total fall of rain from 13th to 19th July 1890	0·11

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India;
The 21st July 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 13th to 19th July 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
July	13th	155·3	2·0	29·537	83·6	87 3	8·1	79·2	80·3	0·993	79·0	86	SSW and S ..	64	0·01	Chiefly cloudy, o, d.
,,	14th	150·5	6·8	·602	84·2	88·6	10 2	78·4	80·6	·997	79·1	85	SSE	61	Nil	Partially cloudy.
,,	15th	145·6	5·7	·610	84·0	87·8	9·8	78 0	80·2	·978	78·6	84	SSW and calm ...	93	0·10	Partially cloudy, p.
,,	16th	145·5	1·5	·536	84·9	89·8	9·6	80·2	83·6	·991	79·0	83	SSW, WSW and calm.	109	Nil	Chiefly cloudy o.
,,	17th	144·5	1·7	·453	85·1	87 8	7 0	80·8	81·3	1·018	79·8	84	Variable and calm ...	38	... ..	Chiefly cloudy, o, g.
,,	18th	143·4	1·0	·466	85·4	90·1	9·9	80·5	81·3	1·015	79·7	83	SSE and calm ...	43	0·02	Chiefly cloudy, d.
,,	19th	156 9	5·3	·464	84·5	88·5	9·9	78·6	79·5	0 942	77·4	79	SE by S and ESE ...	102	0·06	Partially cloudy, o, t, d.

	Inches.
The mean pressure of the seven days	29·[illegible]
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·518
	Hours.
The total number of hours of bright sunshine	24·0
The maximum possible number of hours of sunshine	93·4
	°
The mean temperature of the seven days	84·5
The average temperature of the corresponding period for 24 years, S.-G.'s Office	83·5
The extreme variation of temperature	12·1
The maximum temperature	90·1
	Miles.
The highest velocity of the wind in one hour	11
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	83
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	86
	Inches.
The total fall of rain from 13th to 19th July 1890	0·19
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	2·76
The total fall from 1st January to 19th July 1890	26·77
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	28·98

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; d, drizzling rain; p, passing temporary showers; g, gloomy; t, thunder.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 21st July 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 5th July 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 5th July 1890, in twenty-seven principal towns of Bengal, excluding one (Gya) from which no return has yet been received, correspond to an annual rate of 16·4 per 1,000 of the aggregate population of the twenty-six towns, which is 985,453. This rate is 2·9 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1886—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	23·4	16·1	20·5	18·2	18·0	19·8	16·4

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 14th June 1890.	21st June 1890.	28th June 1890.	5th July 1890.	Towns.	Weeks ending— 14th June 1890.	21st June 1890.	28th June 1890.	5th July 1890.
Burdwan	32·0	7·6	19·8	16·8					
Midnapore	13·9	3·1	20·1	17·0	Naraingunj	12·4	58·0	12·4	4·1
Hughli and Chinsurah	19·7	14·8	18·1	26·3	Chittagong	9·4	23·5	21·1	42·3
Serampore	23·6	29·4	27·5	25·5	Comillah	38·5	11·5	23·5	34·7
Utterpara	18·9	9·4	9·4	37·7	Patna City	7·5	7·8	11·4	10·1
Howrah	10·9	15·5	13·2	21·2	Gya	16·4	12·3	21·9	Data not furnished.
Bali	10·5	10·5	14·0	10·5					
Kishnagar	15·1	9·5	26·5	1·9					
[redacted]	12·0	...	6·0	18·0	Arrah	8·4	17·9	10·8	14·4
Santipore	17·5	8·8	17·5	12·3	Mozufferpore	7·3	18·2	15·8	13·4
Jessore			...	6·1	Durbhanga	20·5	17·3	28·3	13·4
Rampore Beauleah	31·5	30·8	34·2	34·2	Chupra	4·0	8·0	8·0	7·0
Darjiling		59·3	...	14·8	Bhagulpore	12·7	17·2	21·7	29·9
Dacca	9·1	7·8	9·7	11·0	Monghyr	20·8	23·5	24·4	14·5
					Purneah	13·9	...	3·5	17·3
					Poori	21·0	29·4	14·7	28·1

It will be seen that last week the highest birth-rate was returned from Chittagong (42·3) and the lowest from Kishnagar (1·9).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 19·6 per 1,000 of the population. The rate of the week is 4·8 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	28·5	22·5	23·4	18·4	29·0	24·4	19·6

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 14th June 1890.	21st June 1890.	28th June 1890.	5th July 1890.	Towns.	Weeks ending— 14th June 1890.	21st June 1890.	28th June 1890.	5th July 1890.
Burdwan	19·8	15·3	19·8	16·8					
Midnapore	15·8	20·1	26·3	21·7	Naraingunj	24·8	18·6	20·7	8·3
Hughli and Chinsurah	29·5	19·7	27·9	23·0	Chittagong	11·7	16·4	23·5	37·6
Serampore	23·6	15·7	29·4	29·4	Comillah	34·7	11·5	34·7	46·2
Utterpara	18·9	28·3	...	9·4	Patna City	17·5	15·3	14·3	13·3
Howrah	20·8	12·0	8·6	8·6	Gya	27·3	34·3	27·3	Data not furnished.
Pali	14·0	17·5	10·5	24·5					
Kishnagar	9·5	...	...	13·2	Arrah	13·2	37·1	42·3	32·1
Ranaghat	6·0	6·0	...	6·0	Mozufferpore	28·6	26·8	26·5	31·6
Santipore	14·0	15·8	7·0	14·0	Durbhanga	33·0	31·3	29·0	17·5
Jessore	12·2	36·7	12·2	18·4	Chupra	13·1	14·1	19·1	8·0
Rampore Beauleah	23·6	23·6	15·8	15·8	Bhagulpore	24·4	18·1	16·3	18·4
Darjiling	14·8	37·0	59·3	51·9	Monghyr	16·1	17·2	19·9	9·0
Dacca	24·0	17·5	19·5	21·4	Purneah	8·5	10·4	27·7	10·4
					Poori	135·9	2[illegible]·0	2[illegible]·6	80·0

It will be seen that last week the highest mortality occurred in the town of Poori (86·) and the lowest in Ranaghat (6·).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per *mille.*	*Small-pox.*	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Poori ...	27·3	Hughli and Chinsurah ...	4·9	Comillah	34·7	Darjiling ...	22·2	Poori ...	25·2
Mozufferpore ...	14·6			Darjiling	29·6	Poori ...	14·6	Serampore	15·7
Arrah ...	13·2							Chittagong	11·7
Durbhanga ...	6·3								

The total mortality from the several registered death-causes in the twenty-six towns amounted to 3·3 from cholera, against 7·6 per 1,000 in the preceding week; ·5 from small-pox, against ·3; 8·1 from fever, against 8·5; 2· from bowel-complaints, against 3·2; ·3 from injury, against ·6; and 5·4 from other causes, against 5·3 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	20·8	Christians ...	22·5	Under 1 year ...	160·9
Females	18·4	Hindus ...	18·9	1 and under 5 years ...	31·2
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	113	Mahomedans ...	21·3	5 „ 10 „ ...	12·6
		Budhists ...	25·7	10 „ 15 „ ...	12·8
				15 „ 20 „ ...	13·7
				20 „ 30 „ ...	9·5
				30 „ 40 „ ...	10·6
				40 „ 50 „ ...	13·1
				50 „ 60 „ ...	19·1
				60 years and upwards ...	48·1

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 22nd July 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 5th July 1890.

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.															Sex.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.											
		Males.	Females	Total.	Males.	Females.	*Total.*	Males.	Females.	*Total.*	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	6	5	*11*	9·2	7·6	*16·8*	120	..	...	6	1	...	4	*11*	..	...	9·2	1·5	...	6·1	*16·8*	19·8	5	6	14·4	19·5	73
Midnapore ...	Midnapore ...	16,927	16,633	33,560	5	6	*11*	7·7	9·3	*17·0*	83	3	...	4	2	...	5	*14*	4·6	...	6·2	3·1	...	7·7	*21·7*	26·3	10	4	30·7	12·5	245
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	8	8	*16*	13·1	13·1	*26·3*	100	...		9	...	...	2	*14*	...	4·9	14·8	...	...	3·3	*23·0*	27·9	6	8	19·7	26·3	74
Serampore ...	Serampore ...	13,559	12,937	26,496	7	6	*13*	13·7	11·8	*25·5*	116	2	...	2	3	...	8	*15*	3·9	...	3·9	5·9	...	15·7	*29·4*	29·4	9	6	34·5	24·1	143
	Utterpara	3,046	2,464	5,510	3	1	*4*	28·3	9·4	*37·7*	300	1	...	...	...	...	...	*1*	9·4	...	...	...	...	...	*9·4*	...	1	...	17·1	...	No female death.
Howrah ...	Howrah	53,153	37,660	90,813	21	16	*37*	12·0	9·2	*21·2*	131	1	...	5	2	...	6	*15*	·6	·6	2·9	1·1	...	3·4	*8·6*	8·6	10	5	9·8	6·9	142
	Bali	7,836	6,979	14,815	2	1	*3*	7·0	3·5	*10·5*	200	...	...	5	...	...	2	*7*	...	...	17·5	...	...	7·0	*21·6*	10·5	3	4	19·9	29·8	67
Nuddea ...	Kishnagar ...	13,263	14,214	27,477	...	1	*1*	...	1·9	*1·9*	No male birth.	...	...	5	...	...	2	*7*	...	...	9·4	...	...	3·8	*13·2*	...	4	3	15·7	11·0	142
	Ranaghat	4,028	4,655	8,683	1	2	*3*	6·0	12·0	*18·0*	50	...	...	...	...	...	1	*1*	...	...	...	...	...	6·0	*6·0*	...	1	...	12·9	...	No female death.
	Santipore	13,708	15,979	29,687	3	4	*7*	5·3	7·0	*12·3*	75	2	...	5	...	...	1	*8*	3·5	...	8·8	...	...	1·7	*14·0*	7·0	4	4	15·2	13·0	116
Jessore ...	Jessore	4,830	3,665	8,495	...	1	*1*	...	6·1	*6·1*	No male birth.	...	...	2	1	...	...	*3*	...	...	12·2	6·1	...	...	*18·4*	12·2	3	...	32·3	...	No female death.
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	9	4	*13*	23·6	10·5	*34·2*	225	...	...	5	...	...	1	*6*	...	...	13·1	...	...	2·6	*15·8*	15·8	3	3	14·5	17·3	83
Darjiling ...	Darjiling	4,579	2,439	7,018	...	2	*2*	...	14·8	*14·8*	No male birth.	..	..	4	3	...	...	*7*	...	...	29·6	22·2	...	...	*51·9*	59·3	3	4	34·1	85·3	40
Dacca ...	Dacca	42,782	37,379	80,161	7	10	*17*	4·5	6·5	*11·0*	70	2	..	20	1	1	9	*33*	1·3	...	13·0	·6	·6	5·8	*21·4*	19·5	19	14	23·1	19·5	118
	Naraingunj ...	7,605	4,956	12,561	...	1	*1*	...	4·1	*4·1*	No male birth.	...	...	...	1	...	1	*2*	...	...	...	4·1	...	4·1	*8·3*	20·7	1	1	6·8	10·5	100
Chittagong ...	Chittagong ...	13,340	8,790	22,130	12	6	*18*	28·2	14·1	*42·3*	200	...	...	8	2	1	5	*16*	...	...	18·8	4·7	2·3	11·7	*37·6*	25·5	11	5	42·9	29·6	145
Tipperah ...	Comillah	8,153	5,353	13,506	5	4	*9*	19·3	15·4	*34·7*	125	...	...	9	...	1	2	*12*	...	...	34·7	..	3·8	7·7	*46·2*	34·6	5	7	31·9	68·0	47
Patna	Patna City ...	78,762	81,475	160,237	13	18	*31*	4·2	5·8	*10·1*	72	6	3	14	6	2	16	*47*	1·9	1·0	4·5	1·9	·6	5·2	*15·3*	14·3	26	21	17·2	13·4	128
Gya	Gya	Return not received up to date.																													
Shahabad ...	Arrah	20,960	22,505	43,465	3	9	*12*	3·6	10·8	*14·4*	33	11	...	10	1	...	4	*26*	13·2	...	12·0	1·2	...	4·8	*31·1*	45·5	14	12	34·7	27·7	125
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	7	4	*11*	8·5	4·9	*13·4*	175	12	1	7	4	...	2	*26*	14·6	1·2	8·5	4·9	...	2·4	*31·6*	36·5	11	15	24·8	39·7	62
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	8	9	*17*	6·3	7·1	*13·4*	88	8	...	10	2	..	2	*22*	6·3	...	7·9	1·6	...	1·6	*17·3*	26·0	12	10	18·5	16·1	115
Saran	Chupra	25,116	26,554	51,670	4	3	*7*	4·1	3·0	*7·0*	133	...	1	2	1	1	3	*8*	...	1·0	2·0	1·0	1·0	3·0	*8·0*	19·1	3	5	6·2	9·8	63
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	16	17	*33*	14·5	15·4	*29·9*	94	1	...	10	...	...	6	*17*	·9	...	9·1	...	...	5·4	*15·4*	16·3	8	9	14·0	16·8	83
Monghyr ...	Monghyr	28,154	29,366	57,520	7	9	*16*	6·3	8·1	*14·5*	77	...	...	1	1	...	8	*10*	...	...	·9	·9	...	7·2	*9·0*	19·9	9	1	16·6	1·8	922
Purneah ...	Purneah	8,463	6,553	15,016	4	1	*5*	13·9	3·5	*17·3*	400	...	...	2	1	...	...	*3*	...	...	6·9	3·5	...	...	*10·4*	27·7	2	1	12·3	7·9	155
Poori	Poori	13,287	11,557	24,784	9	2	*11*	18·9	4·2	*23·1*	450	13	1	8	7	...	12	*41*	27·3	2·1	16·8	14·6	...	25·2	*86·9*	245·5	22	19	86·4	85·6	101

MORTALITY ACCORDING TO—

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of Population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan ...	Burdwan	...	7	4	...	...	...	15·4	20 3	...	...
Midnapore ...	Midnapore ...	...	8	6	...	...	...	16·0	43·2	...	...
Hughli ...	Hughli and Chinsurah	...	11	3	...	...	...	22·6	25·3	...	...
Serampore ...	Serampore ...	...	13	2	...	...	...	26·8	12·0·9	...	...
	Utterpara	...	1	...	...	...	...	9·8	...	...	..
Howrah ...	Howrah	2	7	6	...	...	59·4	5·3	12·2	...	...
	Sali	...	[illegible]	1	...	...	..	23·3	39·7	...	...
Nudden ...	Kishnagar ...	...	2	5	...	...	...	5·6	31·4	...	...
	Ranaghat	...	1	...	...	...	...	7·1	...	...	.
	Santipore	...	8	...	...	...	...	20·1	...	...	...
Jessore ...	Jessore	...	1	2	...	...	...	11·5	27·2	...	...
Rajshahye ...	Rampore Beauleah	...	3	3	...	...	...	15·7	15 9	...	...
Darjiling ...	Darjiling	...	6	...	1	...	...	67·9	...	31·5	...
Dacca ...	Dacca	...	18	15	...	...	...	23·2	19·8	...	...
	Naraingunj ...	...	...	2	...	...	...	...	16·9	...	...
Chittagong ...	Chittegong ..	...	1	15	...	...	...	9·0	51·0	...	...
Tipperah ...	Comillah	...	8	4	...	...	...	70·0	29·1	...	...
Patna	Patna City ..	...	39	8	...	...	...	17·0	10·2	...	...
Gya ...	Gya										
Shahabad ...	Arrah	...	17	9	...	...	...	28·5	37·7	...	...
Mozufferpore ...	Mozufferpore ...	...	19	7	...	...	...	32·9	29·2	...	...
Durbhanga ...	Durbhanga ...	...	13	9	...	...	...	14·0	26·6	...	...
Saran	Chupra	...	6	2	...	...	...	7·9	8·7	...	...
Bhagulpore ...	Bhagulpore ...	...	10	7	...	...	...	13·1	21·1	...	...
Monghyr ...	Monghyr	...	6	4	...	...	...	7·0	16·5	...	...
Purneah ...	Purneah	...	3	...	...	...	...	17·0	...	...	...
Poori ...	Poori	1	40	...	...	...	1209·3	84·8	...	...	...
	TOTAL ...	3	254	114	1	...	22·5	16·9	21·3	25·7	...

Age.

Deaths.

Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
4	1	1	1	1	1	...	1	1	...
2	1	1	...	1	2	2	2	...	3
2	2	1	...	3	2	1	...	2	1
5	2	...	1	...	1	...	...	2	4
...	...	...	...	...	...	1	...	...	...
3	2	1	...	...	1	3	2	1	2
1	2	...	...	...	1	...	3	...	...
...	...	1	...	...	3	2	1	...	...
...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	2	...	...
1	...	...	...	...	...	...	...	...	5
1	...	1	...	...	1	...	...	...	...
2	...	1	...	...	...	1	...	1	1
1	2	1	...	...	2	...	...	1	...
4	4	3	3	3	4	3	...	3	6
2	...	...	...	...	...	...	...	...	...
3	...	1	2	1	1	1	4	2	1
2	...	1	...	1	...	1	1	...	6
10	7	5	5	3	4	...	4	2	7

Return not received up to date.

6	4	1	2	2	3	1	2	1	1
3	10	3	2	1	1	2	3	...	1
6	5	2	3	1	...	...	1	2	3
3	2	...	...	...	1	...	...	...	2
2	5	...	4	3	2	...	1	2	...
5	...	...	...	...	1	2	1	...	1
...	1	...	1	...	1	...	...	...	...
5	2	1	1	..	4	8	3	6	11

Ratio per 1,000 of Population per annum.

Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
315·2	23·0	22·3	20·7	16·6	6·0	...	11·8	21·2	...
140·0	22·1	13 9	...	16·5	14·2	18 8	27·9	...	85·2
129·5	46·9	15·0	...	62 2	16·8	9·1	...	40·0	25·1
366·2	57 6	...	23·4	...	9·7	...	...	54·3	149·5
...	...	...	...	...	...	49·0	...	...	...
75·6	18·8	8·3	...	...	2·3	8·1	8·8	9·5	27·7
148·6	104·1	...	...	...	15·5	...	80·6	...	...
...	...	15·1	...	...	32·4	24·3	15·9	...	...
...	...	...	...	...	...	...	...	...	91·4
61·5	...	...	...	...	...	24·0	...	...	132·4
268·0	...	65·6	...	...	25·8	...	...	...	...
256·2	...	25·0	...	...	...	14·4	...	41·9	54·0
429·8	161·7	88 9	...	...	52·0	...	...	213·1	...
109·6	28·2	15·7	19 6	21·4	13 6	13·4	...	32·9	56·0
372·8	...	...	...	...	...	...	...	...	...
277·1	..	20·8	40·4	21·5	11·2	15·6	92·2	95·9	65·2
350·2	...	31·9	...	41·3	...	26·1	39·6	...	460·2
120·6	24·9	15·4	15·1	14·0	7·2	...	11·0	7·4	26·4
242·2	46·9	19·1	23·5	32·4	19·9	32·3	22·2	16 8	18·0
163·4	128·7	34·7	26·3	17 2	6·1	14·2	31·2	...	21·4
200·4	34·2	13·3	18·7	12·9	...	...	7·9	23·7	48·8
110·6	20·1	...	...	...	5·6	...	...	...	30·6
87·1	48·0	...	16·5	37·3	9·5	...	8·3	24·4	...
170·1	...	...	...	...	5 0	11·7	8·2	...	14·5
...	43·0	...	43·5	...	15·8	...	...	...	...
858·1	57·9	23·2	27·7	...	39·4	102·6	46·9	139·8	316·7
160·9	31·2	12·6	12 8	13 7	9 5	10 6	13·1	19·1	48·1

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 22nd July 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of May 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. / MACHGONG ,, 4 ,,

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
	1. Grain ...						
	2. Cotton ...						
	3. Oilseeds ...						
	4. Salt ...						
	5. Piece-goods ...						
	6. Metal ...			Nil.			
	7. Building materials						
	8. Miscellaneous ...						
	9. Fuel ...						
	10. Timber ...						
	11. Bamboos ...						
	12. Total ...						
	13. Total of same month last year.						

	Up.	Down.	Total.		Rs. A
14. Total number of boats plying cargo No.				Total tollage of month—24 + 25 + 26 ...	Nil
15. Total number of boats plying passenger No.				Total tollage of same month last year ...	
16. Total registered tonnage, cargo Tons					
17. Total registered tonnage, passenger Tons					
18. Ton-mileage ...					
19. Estimated value of cargo Rs.					
20. Number of passengers ...					
21. Rafts, bamboos C. ft.		Nil.			
22. Do., bullahs ,,					
23. Estimated value of rafts Rs.					
24. Tollage on boats ,,					
25. Compounded tollage on boats Rs.					
26. Tollage on rafts ,,					
27. Total tollage on boats per ton-mile Rs.					
28. Total tollage on rafts per 100 cubic feet Rs.					

Memorandum of Tollage.

	Rs. A
1. Balance not recovered on the 1st of the month ...	380 5
2. Tollage per month ...	0 15
3. Total ...	381 4
4. Amount credited in the accounts of the month ...	381 4
5. Balance due at the end of the month ...	.....

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
4	1. Grain ... 2. Cotton ... 3. Oilseeds ... 4. Salt ... 5. Piece-goods ... 6. Metal ... 7. Building materials 8. Miscellaneous ... 9. Fuel ... 10. Timber ... 11. Bamboos ...	.....	93	93	90	.....	.. ...	Canal closed for annual repairs.
4	12. Total ...	... ..	93	93	90	.....	.....	
2 & 2 rafts.	13. Total of same month last year.		5 & 511 No.	5 & 511 No.	100	5 & 511 No.	100	

		Up.	Down.	Total.
1.	Total number of boats plying cargo No.	.....	4	[illegible]
2.	Total number of boats plying passenger No.	1	.....	1
2½.	Empty boats ,,	9	8	17
3.	Total registered tonnage, cargo, private Tons	.....	.....	.....
3½.	Ditto ditto, Government ,,	.....	201	201
4.	Total registered tonnage, passenger Tons	2	.....	2
4½.	Empty boats ,,	122	27	149
5.	Ton-mileage ...	541	189	730
6.	Estimated value of cargo Rs.	.....	90	90
7.	Number of passengers ...	2	.....	2
7½.	Rafts, bamboos C. ft.	.....	.....	.....
8.	Do., bullahs ,,	... ..	.....	.....
8½.	Estimated value of rafts Rs.	.....	.. ...	.....
9.	Tollage on boats ,,	8-10-6	31-4-11	39-15-5
10.	Compounded tollage on boats Rs.	.....	.....	.....
11.	Tollage on rafts ,,	.....	.....	.....
12.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·5
13.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	39	15	5
Total tollage of same month last year ...	82	9	4

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	5,110	10	6
2. Tollage per month ...	39	15	5
Amount refunded which was erroneously shown as balance in July 1889	—8	12	0
3. Total ...	5,141	13	11
4. Amount credited in the accounts of the month ...	5,072	10	11
5. Balance due at the end of the month ...	69	3	0

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
	1. Grain ...						
	2. Cotton ...						
	3. Oilseeds ...						
	4. Salt ...						
	5. Piece-goods ...						
	6. Metal ...			Nil.			
	7. Building materials						
	8. Miscellaneous ...						
	9. Fuel ...						
	10. Timber ...						
	11. Bamboos ...						
	12. Total ...						
	13. Total of same month last year ...			Nil.			

	Up.	Down	Total.
14. Total number of boats plying cargo No.			
15. Total number of boats plying passenger No.			
16. Total registered tonnage, cargo Tons			
17. Total registered tonnage, passenger Tons			
18. Ton-mileage ...			
19. Estimated value of cargo Rs.			
20. Number of passengers ...		Nil.	
21. Rafts, bamboos C. ft.			
22. Do., bullahs ,,			
23. Estimated value of rafts Rs.			
24. Tollage on boats ,,			
25. Compounded tollage on boats Rs.			
26. Tollage on rafts ,,			
27. Total tollage on boats per ton-mile Rs.			
28. Total tollage on rafts per 100 cubic feet Rs.			

	Rs. A
Total tollage of month—24 + 25 + 26 ...	.....
Total tollage of same month last year	.....

Memorandum of Tollage.

	Rs. A
1. Balance not recovered on the 1st of the month	641 15
2. Tollage per month ...	.....
3. Total ...	641 15
4. Amount credited in the accounts of the month	641 15
5. Balance due at the end of the month ...	.....

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of Boats or Rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
	1. Grain ...							Canal closed for annual repairs.
	2. Cotton ...							
	3. Oilseeds ..							
	4. Salt ...							
	5. Piece-goods ...							
	6. Metal ...			Nil.				
	7. Building materials							
	8. Miscellaneous ...							
	9. Fuel ...							
	10. Timber ..							
	11. Bamboos ...							
	12. Total ...							
	13. Total of same month last year.							

	Up.	Down.	Total.
Total number of boats plying cargo ... No.	.....	.....	.....
Total number of boats plying passenger No.	21	24	45
Ditto empty boats „	.....	.....	.....
Total registered tonnage, cargo Tons	.....	.....	.....
Ditto Govt. ditto „	.....	.....	.....
Total registered tonnage, passenger Tons	538	411	949
Ditto empty ditto „	.....	.....	.....
Ton-mileage	6,456	1,233	7,689
Estimated value of cargo Rs.	.....	.....	.....
Number of passengers ...	.....	.....	.....
Rafts, bamboos C. ft.	.....	.....	.....
Do., bullahs „	.....	.....	.....
Estimated value of rafts Rs.	.....	.....	.....
Tollage on boats „	71-6-6	91-14-0	163-4-6
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts „	.....	.....	.....
Total tollage on boats per ton-mile Rs.	.....	.....	.....
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	163 4 6*
Total tollage of same month last year ...	.....

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	.....
2. Tollage per month ...	163 4 6
3. Total ...	163 4 6
4. Amount credited in the accounts of the month ...	163 4 6
5. Balance due at the end of the month ...	.....

* Tollage for transport service during April.

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
	1. Grain ...							Canal closed for annual repairs.
	2. Cotton ...							
	3. Oilseeds ...							
	4. Salt ...							
	5. Piece-goods ...							
	6. Metal ...			Nil.				
	7. Building materials							
	8. Miscellaneous ...							
	9. Fuel ...							
	10. Timber ...							
	11. Bamboos ...							
	12. Total ...							
	13. Total of same month last year.							

	Up.	Down.	Total.
14. Total number of boats plying for cargo No.	.....	.....	.....
15. Total number of boats plying passenger No.	21	24	45
15½. Ditto empty ditto ,,	5	.....	5
16. Total registered tonnage, cargo Tons	.....	.....	.....
16½. Ditto of Govt. do. ,,	.....	.....	.....
17. Total registered tonnage, passenger Tons	341	467	808
17½. Ditto empty ditto ,,	17	.....	17
18. Ton-mileage ...	6,717	8,873	15,590
19. Estimated value of cargo Rs.	.....	.....	.....
20. Number of passengers ...	.....	.....	.....
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs ,,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats ,,	56-4-0	79-0-6	135-4-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	.....
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A.
Total tollage of month—24 + 25 + 26 ...	135 4
Total tollage of same month last year	... ..

Memorandum of Tollage.

	Rs. A
1. Balance not recovered on the 1st of the month ...	—0 10
2. Tollage per month ...	135 4
3. Total ...	134 10
4. Amount credited in the accounts of the month ...	135 4
5. Balance due at the end of the month ...	0 10

* Of this amount, Rs. 133-1-6 is for tollage on transport service for April 1890.

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

of	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
	1. Grain ...							Canal closed for annual repairs.
	2. Cotton ...							
	3. Oilseeds ...							
	4. Salt ...							
	5. Piece-goods ...							
	6. Metal			Nil.				
	7. Building materials							
	8. Miscellaneous ...							
	9. Fuel ...							
	10. Timber ...							
	11. Bamboos ...							
	12. Total ...							
	13. Total of same month last year.							

	Up.	Down.	Total.
Total number of boats plying cargo No.	.....	.....	.....
Total number of boats plying passenger No.	15	14	29
Ditto empty ditto ,,	.....	.....	.....
Total registered tonnage, cargo Tons	.....	.....	.....
Ditto of Govt. do. ,,	.....	.....	.....
Total registered tonnage, passenger Tons	110	103	213
Ditto empty ditto ,,	.....	.....	.....
Ton-mileage ...	660	618	1,278
Estimated value of cargo Rs.	.....	.....	.....
Number of passengers ...	.....	.....	.....
Rafts, bamboos C. ft.	.....	.....	.....
Do., bullahs ,,	.....	.....	.....
Estimated value of rafts Rs.	.....	.....	.....
Tollage on boats ,,	8-0-0	7-0-0	15-0-0
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts ,,	.....	.....	.....
Total tollage on boats per ton-mile Rs.	.....	.....	.....
Total tollage on rafts per 100 cubic feet Rs	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	15 0 0*
Total tollage of same month last year .	.....

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month .	0 4 0
2. Tollage per month ...	15 0 0
3. Total ...	15 4 0
4. Amount credited in the accounts of the month ...	15 4 0
5. Balance due at the end of the month ...	.....

* This tollage is on account of tollage on the passenger boat "Zabberwook" for trips made during April.

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
514	1. Grain ...	3,154	550	3,704	2,27,224	3,704	2,27,224
1	2. Cotton ...	3	2	5	1,993	5	1,993
24	3. Oilseeds ...	232	83	315	34,805	315	34,805
113	4. Salt ...	.....	1,103	1,103	1,11,210	1,103	1,11,210
13	5. Piece-goods ...	2	108	110	3,06,100	110	3 06,100
32	6. Metal	203	197	400	3,47,770	400	3,47,770
40	7. Building materials	389	16	405	1,403	405	1,403
366	8. Miscellaneous ...	1,078	777	1,855	10,61,783	1,855	10,61,783
42	9. Fuel ...	127	483	610	8,110	610	8,110
14 rafts	10. Timber ...	930 c. ft.	72 c. ft.	1,002 c. ft.	950	1,002 c. ft	950
3 rafts	11. Bamboos ...	83 ,,	60 ,,	143 ,,	29	143 ,,	29
1,145 & 17 rafts.	12. Total ...	5,188 & 1,013 c. ft.	3,319 & 132 c. ft.	8,507 & 1,145 c. ft	21,01,377	8,507 & 1,145 c.ft.	21,01,377
1,502 & 10 rafts.	13. Total of same month last year.	7,788 & 1,985 c. ft.	3,272 & 240 c. ft	11,060 & 2,225 c. ft.	9,63,353	11,060 & 2,225 c.ft.	9,63,353

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	740	405	1,145
15. Total number of boats plying passenger No.	530	728	1,258
15½. Ditto empty ,,	262	663	925
16. Total registered tonnage, cargo Tons	11,040	7,320	18,360
17. Total registered tonnage, passenger Tons	3,732	4,239	7,971
17½. Ditto empty ,,	1,652	3,353	5,005
18. Ton-mileage ...	272,479	248,431	520,910
19. Estimated value of cargo Rs.	12,93,671	8,06,727	21,00,398
20. Number of passengers ...	5,793	16,421	22,214
21. Rafts, bamboos C. ft.	83	60	143
22. Do., bullahs ,,	930	72	1,002
23. Estimated value of rafts Rs.	825	154	979
24. Tollage on boats ,,	4,725-10-3	3,740-8-3	8,466-2-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	25-4-6	0-14-0	26-2-6
27. Total tollage on boats per ton-mile Pie	.....	.....	0-0-3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	2-4-6

	Rs.
Total tollage of month—24+25+26 ...	8,492
Total tollage of same month last year ...	9,267

Memorandum of Tollage.

	Rs.
1. Balance not recovered on the 1st of the month	6,738
2. Tollage per month ...	8,492
3. Total ...	15,231
4. Amount paid into treasury during the month ...	8,014
5. Balance due at the end of the month ...	7,216

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

ber of ats fts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
145	1. Grain ...	876	.....	876	33,893	876	33,893	
.	2. Cotton ...	.....	.....	.....	.....	.....	.....	
1	3. Oilseeds ...	.....	.....	.....	50	.....	50	
21	4. Salt ...	.....	153	153	15,797	153	15,797	
.	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.	6. Metal ...	.....	.....	.....	.....	.....	.....	
6	7. Building materials	1	14	15	184	15	184	
347	8. Miscellaneous ...	7	143	150	20,533†	150	20,483	
5	9. Fuel ...	1	30	31	226	31	226	
afts	10. Timber ...	.....	83 c. ft.	83 c. ft.	67	83 c. ft.	67	
,,	11. Bamboos ...	25 c. ft.	275 ,,	300 ,,	15	300 ,,	15	
5 & afts.	12. Total ...	885 & 25 c ft.	340 & 358 c. ft.	1,225 & 383 c. ft.	70,765	1,225 & 383 c. ft.	70,715	
4 & afts.	13. Total of same month last year.	3,968	1,316 & 96 c. ft.	5,284 & 96 c. ft.	3,35,642	5,248 & 96 c. ft.	3,35,392	

	Up.	Down.	Total.
Total number of boats plying cargo No.	180	345	525
Total number of boats plying passenger No.	16	16	32
Total registered tonnage, cargo Tons	1,879	2,545	4,424
Total registered tonnage, passenger Tons	124	230	354
Ton-mileage	35,941	49,854	85,795
Estimated value of cargo Rs.	34,267	36,416	70,683
Number of passengers ...	168	931	1,099
Rafts, bamboos C. ft.	25	275	300
Do., bullahs ,,	.....	83	83
Estimated value of rafts Rs.	3	79	82
Tollage on boats ,,	628-7-6	878-5-9	1,506-13-3
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts ,,	0-1-0	2-14-9	2-15-9
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-12-5

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,509	13	0
Total tollage of same month last year ..	5,389	1	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,153	8	6
2. Tollage per month ...	1,509	13	0
3. Total ...	2,663	5	6
4. Amount paid into treasury during the month ...	1,468	13	3
5. Balance due at the end of the month	1,194	8	3

* 10 maunds only. † 10 maunds for Government work.

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
1	1. Grain ...	1	.....	1	82	1	82
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
...	4. Salt ...	25	.....	25	2,800	25	2,800
...	5. Piece-goods ...	5	.....	5	7,500	5	7,500
...	6. Metal ...	.....	.....	.....	.....	.....	.....
12	7. Building materials	13	41	54	448	13	180
2	8. Miscellaneous ...	12	1	13	1,880	13	1,880
1	9. Fuel ...	.....	2	2	15	2	15
...	10. Timber By raft	.....	37	37	325	37	325
4	11. Bamboos { By boat	.....	16	16	775	16	775
	{ „ raft	.....	6	6	95	6	95
20	12. Total ...	56	103	159	13,920	118	13,652
210	13. Total of same month last year ...	627	4,406	5,033	2,91,683	5,000	2,90,378

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	9	11	20
15. Total number of boats plying passenger No.	2	.....	2
15½. Ditto empty boats „	13	14	27
16. Total registered tonnage, cargo Tons	73	83	156
17. Total registered tonnage, passenger Tons	5	.....	5
17½. Ditto empty boats „	40	63	103
18. Ton-mileage ...	4,572	2,670	7,242
19. Estimated value of cargo Rs.	13,187	313	13,500
20. Number of passengers ...	117	.....	117
21. Rafts, bamboos C. ft.	.....	975	975
22. Do., bullahs „	.....	2,750	2,750
23. Estimated value of rafts Rs.	.....	420	420
24. Tollage on boats „	15-5-5	14-13-3	30-2-8
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0
26. Tollage on rafts „	.....	20-7-3	20-7-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4·7
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-8-9

	Rs.
Total tollage of month—24 + 25 + 26 ...	200
Total tollage of same month last year ...	4,244 14

Memorandum of Tollage.

	Rs.
1. Balance not recovered on the 1st of the month ...	639
2. Tollage per month ...	200
3. Total ...	839 15
4. Amount credited in the accounts of the month	347 5
5. Balance due at the end of the month ...	492 9

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

of s.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
	1. Grain ...	10	393	403	28,732	403	28,732	
	2. Cotton ...	43	.....	43	54,250	43	54,250	
	3. Oilseeds ...	.....	490	490	52,550	490	52,550	
	4. Salt ...	378	.....	378	41,870	378	41,870	
	5. Piece-goods ..	8	.....	8	7,400	8	7,400	
	6. Metal ...	8	.....	8	1,308	8	1,308	
	7. Building materials	.....	78	78	4,430	71	4,424	
	8. Miscellaneous ...	114	388	502	28,558	314	26,682	
	9. Fuel ...	18	.....	18	233	18	233	
	10. Timber ...	.....	.....	.....	.....	.....	.....	
	Bullahs ...	.....	1,279	1,279	8,026	1,279	8,026	
	11. Bamboos ...	.....	904	904	8,337	904	8,337	
	Firewood ...	.....	101	101	177	101	177	
	12. Total ...	579	3,633	4,212	2,35,871	4,017	2,3[illegible],989	
	13. Total of same month last year.	251	2,663	2,914	99,112	2,819	97,462	

	Up.	Down.	Total.
Total number of boats plying cargo No.	60	125	[illegible]85
Total number of boats plying passenger No.	5	6	11
Total number of empty boats No.	107	5	112
Total registered tonnage, cargo Tons	985	2,151	3,136
Total registered tonnage, passenger Tons	121	108	229
Total registered tonnage, empty Tons	397	19	416
Ton-mileage ...	72,339	111,976	184,315
Estimated value of cargo Rs.	1,15,855	1,03,476	2,19,331
Number of passengers ...	1,329	1,242	2,571
Rafts, bamboos C.ft.	.....	1,35,720	1,35,720
Do., bullahs „	.....	95,970	95,970
Do., firewood „	.....	7,580	7,580
Estimated value of rafts Rs.	.....	16,540	16,540
Tollage on boats „	411-11-9	924-7-3	1,336-3-0
Compounded tollage on boats Rs.	228-0-0	228-0-0	456-0-0
Tollage on rafts „	.....	589-8-3	589-8-3
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·86
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-11

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	2,381 11 3
Total tollage of same month last year ...	1,476 5 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	140 1 3
2. Tollage per month ...	2,381 11 3
3. Total ...	2,521 12 6
4. Amount credited in the accounts of the month	2,430 15 3
5. Balance due at the end of the month ...	90 13 3

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
40	1. Grain ...	114	502	616	45,238	616	45,238	
..	2. Cotton ...	.....	.....	.....	.....	.....	.....	
10	3. Oilseeds ...	.....	216	216	23,000	216	23,000	
...	4. Salt ...	1	.....	1	174	1	174	
...	5. Piece-goods ...	1	.....	1	2,760	1	2,760	
...	6. Metal ...	3	2	5	11,260	5	11,260	
2	7. Building materials	.....	26	26	968	.....	.....	
8	8. Miscellaneous ...	39	87	126	12,388	126	12,388	
7	9. Fuel ...	.....	84	84	1,023	84	1,023	
Rafts	10. Timber ...	.....	542	542	3,843	542	3,843	
Rafts	11. Bamboos ...	.....	443	443	3,403	443	3,403	
67	12. Total ...	158	1,902	2,060	1,04,057	2,034	1,03,089	
12	13. Total of same month last year.	72	947	1,019	26,272	1,013	26,035	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	11	56	67
15. Total number of boats plying passenger No.	11	9	20
15½. Ditto empty boats „	56	7	63
16. Total registered tonnage, cargo Tons	206	2,189	2,395
17. Total registered tonnage, passenger Tons	223	243	466
17½. Ditto empty „	221	26	247
18. Ton-mileage ...	9,814	27,596	37,410
19. Estimated value of cargo Rs.	20,986	75,825	96,811
20. Number of passengers ...	598	650½	1,248½
21. Rafts, bamboos C. ft.	.....	66,456	66,456
22. Do., bullahs „	.....	40,664	40,664
23. Estimated value of rafts Rs.	.....	7,246	7,246
24. Tollage on boats „	159-10-3	344-7-6	504-1-9
25. Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0
26. Tollage on rafts „	.....	252-9-6	252-9-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·6
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-9

	Rs.	A.
Total tollage of month—24 + 25 + 26 ...	970	11
Total tollage of same month last year ...	532	5

Memorandum of Tollage.

	Rs.	A.
1. Balance not recovered on the 1st of the month ...	52	8
2. Tollage per month ...	970	11
3. Total ...	1,023	3
4. Amount credited in the accounts of the month ...	986	9
5. Balance due at the end of the month ...	36	10

ABSTRACT FOR THE MONTH OF MAY 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1890-91.		Traffic, 1889-90.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
aldunda Canal System ...	.....	806 6 2	.....	1,319 4 3	
endrapara Canal System	39 15 5	7,753 0 5	82 9 4	6,093 14 4	
igh Level, Range I ...	.....	1,233 5 0	.....	1,020 9 0	
Ditto „ II ...	163 4 6	719 4 0	.....	837 3 9	
Ditto „ III ...	135 4 6	504 14 9	... ..	407 7 9	
ajepore Canal ...	15 0 0	22 7 10	.....	14 12 4	
Total Orissa Circle ...	353 8 5	11,039 6 2	82 9 4	9,693 3 5	
South-Western Circle.					
idnapore Canal ...	8,492 5 0	19,397 3 3	9,267 3 9	22,502 14 3	
idgellee Tidal Canal ...	1,509 13 0	3,210 5 0	5,389 1 0	10,990 1 3	
otal South-Western Circle	10,002 2 0	22,607 8 3	14,656 4 9	33,492 15 6	
Sone Circle.					
atna Canal System ...	200 9 11	4,025 15 2	4,244 14 9	4,996 2 3	
rrah ditto ...	2,381 11 3	4,459 0 6	1,476 5 9	3,737 11 3	
uxar ditto ...	970 11 3	2,167 9 9	532 5 9	1,605 12 0	
Total Sone Circle ...	3,553 0 5	10,652 9 5	6,253 10 3	10,339 9 6	
Grand Total ...	13,908 10 10	44,299 7 10	20,992 8 4	53,525 12 5	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1890-91.						Traffic, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
igh Level	...	...	.....	1,307	2,816	1,443 14 5	45	218	70 1 6	900	2,598	1,151 2 4
Total Orissa Circle ...	...	...	.....	1,307	2,816	1,443 14 5	45	218	70 1 6	900	2,598	1,151 2 4

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1890-91.		Earnings, 1889-90.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
rissa Canals ...	353 8 5	12,483 4 7	152 10 10	10,844 5 9	
idnapore Canal ...	8,492 5 0	19,397 3 3	9,267 3 9	22,502 14 3	
idgellee Tidal Canal ...	1,509 13 0	3,210 5 0	5,389 1 0	10,990 1 3	
ne Canals ...	3,553 0 5	10,652 9 5	6,253 10 3	10,339 9 6	
Total ...	13,908 10 10	45,743 6 3	21,062 9 10	54,676 14 9	

Calcutta,
The 22nd July 1890.

G. A. G. Shawe,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 19th July 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 19th July 1890.			Week ending Saturday, the 20th July 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	396	68,850	1,058	362	65,825	1,040
Jute	10	3,350	63	15	8,000	146
Firewood	132	72,425	1,121	116	55,200	809
Other articles	861	2,53,150	3,409	817	1,93,775	2,873
Total ...	1,399	3,97,775	5,651	1,310	3,22,800	4,868

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the five weeks and 2 days ended 30th June 1890, as compared with the same period of 1889.

Staples.	1890.		1889		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
Animals, living — Horses, ponies, and mules	No. 97	846	No. 32	308	No. 65	543	No.....	.....
Animals, living — Cattle	,, 113	865	,, 35	304	,, 78	561	,, ...	.....
Animals, living — Sheep and goats	,, 5,004	3,977	,, 4,731	3,760	,, 363	217	,, ...	.....
Animals, living — Other kinds	,, ...	.....	,, ...	.....	,, ...	.....	,, ...	.....
Borax	1,099	605	382	207	717	338	.....	.....
Canes and rattans	.....	.....	.....	.....	.....	.....	.....	.....
Caoutchouc (Indian-rubber)	1	1	3	2	.....	.....	2	1
Chinese and Japanese ware	10	6	15	4	.....	2	5	.....
Coal and coke, up	9,21,525	2,14,296	8,95,255	2,93,076	26,270	.....	.....	78,780
Coal and coke, Ditto, down	27,16,429	3,40,909	28,10,599	3,70,915	.....	.....	94,170	30,006
Cotton, raw	42,313	38,997	35,753	34,977	6,560	4,020	.....	.....
Cotton, manufactured — Twist and yarn (European)	8,146	10,248	8,088	10,686	.....	.....	542	438
Cotton, manufactured — Ditto (Indian)	16,049	9,001	14,906	8,728	1,143	273	.....	.....
Cotton, manufactured — Piece-goods (European)	95,335	1,06,300	1,05,423	1,24,428	.....	.....	10,088	18,128
Cotton, manufactured — Ditto (Indian)	16,432	8,542	16,154	9,465	278	.....	.....	923
Drugs and medicines — Asafœtida	41	22	63	38	.....	.....	22	16
Drugs and medicines — Other sorts, not intoxicating	1,922	2,110	1,844	2,367	78	.....	.....	257
Drugs and medicines — Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c.)	2,553	1,337	2,563	1,449	.....	.....	10	.....
Dyeing materials — Indigo	125	109	260	349	.....	.....	135	112
Dyeing materials — Madder or manjit	.....	.....	.....	.....	.....	.....	.....	240
Dyeing materials — Safflower	853	678	1,097	698	.....	.....	244	20
Dyeing materials — Turmeric	13,151	8,846	10,808	4,435	2,343	4,411	.....	.....
Dyeing materials — Other kinds	8,270	3,275	8,344	3,236	.....	39	74	.....
Earthenware and porcelain	634	1,132	584	1,073	50	59	.....	.....
Fibrous products — Jute, raw	14,817	1,979	11,433	4,631	3,384	.....	.....	2,652
Fibrous products — Do., manufactured (gunny-bags and cloths)	85,361	48,057	1,14,531	63,384	.....	.....	29,170	15,327
Fibrous products — Other fibres, raw	13,549	3,182	4,685	1,558	8,864	1,624	.....	.....
Fibrous products — Ditto, manufactured	2,753	791	2,482	803	271	.....	.....	12
Fruits & Nuts — Cocoanuts	4,106	3,778	4,759	3,127	.....	651	653	.....
Fruits & Nuts — All other kinds	43,075	29,516	43,532	28,617	143	899	.....	.....
Grain & Pulses — Wheat	4,83,024	1,25,205	8,33,444	2,56,935	.....	.....	3,49,420	1,31,730
Grain & Pulses — Gram and pulses	2,70,590	75,233	4,00,980	1,23,403	.....	.....	1,30,390	48,170
Grain & Pulses — Rice, husked	3,40,783	51,504	5,49,273	1,16,254	.....	.....	2,08,510	64,750
Grain & Pulses — Do., unhusked	61,359	13,273	89,329	16,053	.....	.....	27,470	2,780
Grain & Pulses — Other rain and spring crops	1,35,942	26,040	2,03,172	48,000	.....	.....	68,130	22,560
Government stores	17,279	27,748	16,809	32,054	470	.....	.....	4,306
Gums and resins	9,169	5,252	9,937	5,968	.....	.....	768	716
Hides & Skins — Hides of cattle	31,544	16,543	32,330	17,594	.....	.....	786	1,051
Hides & Skins — Skins of sheep, goats, and small animals	15,203	7,028	16,364	7,565	.....	.....	1,161	537
Horns	1,544	1,030	1,257	619	287	411	.....	.....
Lac — Lac, dye	197	53	75	40	122	13	.....	.....
Lac — Do., shell	10,601	6,420	6,524	4,651	4,077	1,769	.....	.....
Lac — Do., stick and other kinds	17,936	6,165	13,524	4,255	4,412	1,910	.....	.....
Leather — Leather, unmanufactured	1,314	2,730	1,432	2,995	.....	.....	118	275
Leather — Ditto, manufactured	1,896	1,686	1,196	1,653	200	33	.....	.....
Liquors	658	317	460	267	198	50	.....	.....
Mats	1,54,020	24,742	2,00,077	29,240	.....	.....	46,057	4,498
Minerals	21,891	13,842	28,422	25,603	.....	.....	6,531	11,761
Metals and Manufactures of — Brass and copper	1,19,882	71,961	98,571	58,245	21,311	13,716	.....	.....
Metals and Manufactures of — Iron	6,286	5,166	6,910	5,787	.....	.....	644	621
Metals and Manufactures of — Other metals	57,660	24,088	55,774	26,994	1,886	.....	.....	2,906
Oils	4,027	3,737	3,631	3,982	396	.....	.....	245
Opium	3,149	2,698	2,540	2,504	609	194	.....	.....
Paints and colours	28,275	19,625	23,184	12,681	5,091	6,944	.....	.....
Provisions — Ghee	8,570	8,905	8,089	7,816	.....	1,089	119	.....
Provisions — Other kinds	2,86,350	4,560	3,69,526	5,896	.....	.....	83,176	1,336
Railway materials, Construction Account	2,51,471	1,31,103	2,32,024	1,22,401	19,447	8,702	.....	.....
Ditto ditto, Foreign	8,75,204	1,79,783	7,92,288	1,49,113	82,916	30,670	.....	.....
Salt	64,597	20,203	57,884	20,742	6,713	2,551	.....	.....
Saltpetre, &c. — Saltpetre	23,784	7,270	25,038	6,367	1,746	903	.....	.....
Saltpetre, &c. — Other saline substances	8,07,390	2,37,997	12,67,650	3,82,857	.....	.....	4,60,260	1,44,860
Seeds — Oil-seeds — Linseed	1,60,114	38,023	2,39,184	55,323	.....	.....	79,070	17,300
Seeds — Oil-seeds — Mustard and rape	4,356	1,176	5,326	1,106	.....	70	970	.....
Seeds — Oil-seeds — Til or ginjelly	2,10,693	59,257	2,99,933	79,417	.....	.....	89,240	20,160
Seeds — Oil-seeds — Other oilseeds	9,116	2,495	8,956	2,715	160	.....	.....	220
Seeds — Other seeds — Indigo seed	.....	.....	.....	.....	.....	.....	.....	.....
Seeds — Other seeds — Tea seed	59,307	24,472	73,737	31,332	.....	.....	14,430	6,860
Seeds — Other seeds — Other kinds	1,438	1,118	1,477	1,239	.....	.....	39	121
Silk — Silk, raw	.....	.....	.....	.....	.....	.....	.....	.....
Silk — Do., manufactured (European)	326	264	304	229	22	35	.....	.....
Silk — Do., ditto (Indian)	12,185	8,568	11,247	9,322	938	.....	.....	754
Spices	4,22,978	45,513	2,39,941	58,753	1,83,037	16,760	.....	.....
Stone and marble	1,73,055	35,989	2,55,920	54,932	.....	.....	82,265	18,943
Sugar — Sugar, refined	1,01,299	18,709	1,00,494	14,037	805	4,732	.....	.....
Sugar — Do., unrefined	4,023	3,274	4,871	5,647	.....	.....	848	2,373
Tea — Tea, Indian	.....	.....	.....	.....	.....	.....	.....	.....
Tea — Do., Foreign	1,39,450	60,606	1,54,404	70,271	.....	.....	14,954	9,665
Tobacco	34,651	5,526	30,354	4,952	.....	574	4,703	.....
Wood — Timber	31,830	5,732	51,810	3,839	30,020	1,893	.....	.....
Wood — Firewood	2,825	3,045	1,927	1,716	898	1,329	.....	.....
Wool — Wool, raw	123	101	.....	.....	123	101	.....	.....
Wool — Do., manufactured (European)	1,047	661	1,213	784	.....	.....	165	123
Wool — Wool, manufactured (Indian)	.....	.....	.....	.....	.....	.....	.....	.....
Wool — Shawls	2,99,871	1,56,575	3,76,520	1,64,244	.....	.....	76,649	7,669
All other articles of merchandise	82,368	22,895	29,337	6,666	53,029	16,229	.....	.....
Bones	47,057	23,705	42,026	18,388	5,031	5,317	.....	.....
Potatoes	.....	.....	.....	.....	.....	.....	.....	.....
Total	90,87,515	25,03,003	1,18,93,666	30,46,591	4,75,837	1,30,604	18,81,988	6,74,192

General remarks on the fluctuation of principal staples carried over the East Indian Railway during five weeks and two days ended 30th June 1890.

INCREASES.

Cotton.—This is a continuation of the increase reported throughout the half year; the increase was chiefly in despatches from the Bombay, Baroda and Central India Railway *vid* Agra to Calcutta.

Iron.—Consisted chiefly of iron pipes for Segowlie on the Tirhoot State Railway, and for Allahabad and Agra and machinery for Delhi.

Ghee.—The increase occurred in long distance despatches from stations on the Tundla district to Howrah for local consumption.

Railway material, Foreign.—Chiefly in despatches from Howrah to Delhi, Umballa and Umaria.

Salt.—This increase was chiefly in despatches of imported salt from Howrah.

Stone and marble.—Despatches of road metal from Pakur to Chitpore caused the increase recorded under this head.

Bones.—Chiefly in despatches from Mokameh Ghât, *vid* Digha Ghât and *vid* Mogulserai, to Bally and Chitpore.

Potatoes.—This increase was in despatches from Patna and Dinapore to Howrah for local consumption.

DECREASES.

Coal and coke.—There was an increase in the weight of upwards traffic attended with a decrease in earnings, and this was chiefly in despatches for the Oudh and Rohilkhund and the North-Western Railways. The falling off in the downward traffic was due to want of tonnage for export to coast ports and to smaller demand by Eastern Bengal State Railway stations.

Piece-goods, European.—Chiefly in despatches from Howrah and Bombay *vid* Jubbulpore, due to the dull state in the trade generally

Gunny bags.—Due to the dull state of the markets for linseed and wheat.

Wheat.—The falling off was due to there being no demand for export to Europe.

Gram and pulses.—Chiefly in despatches from stations on the "D" district owing to the crops having been nearly destroyed by severe frosts last winter.

Rice (husked and unhusked).—As reported in previous months, the falling off was entirely in upwards rice traffic.

Other rain and spring crops.—Due to large despatches last year of cheap food-grains to stations in the North-West Provinces and on the Gya and Tirhoot State Railways.

Brass and copper.—Chiefly in despatches from Howrah to Mirzapur and other stations owing to high prices.

Seeds.—The decrease was chiefly in linseed to Howrah for export owing to large stocks being held back in up-country markets for better prices.

Tobacco.—Chiefly in despatches from Mokameh Ghât, Barh, Patna and stations on the Tirhoot State Railway to Cawnpore and Jubbulpore owing to the market being dull.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, *the 18th July* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for the first 12 *days of July* 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the first 12 days of July	*408,244	*3,94,158 13 0	34,39,786 0	7,54,940 7 0	32,052 10 0	11,81,160 14 0	112,787½	142,375½	255,163½
Or per mile of railway	.....	258 6 1	.....	494 14 2	21 0 2	774 4 5	.....	.....	.....
For previous weeks of half-year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total for the period ..	408,244	3,94,158 13 0	34,39,786 0	7,54,940 7 0	32,052 10 0	11,81,160 14 0	112,787½	142,375½	255,163½
COMPARISON.									
Total for corresponding first 13 days of previous year ...	550,841	5,00,303 3 6	43,29,272 10	9,59,189 5 6	28,977 1 10	14,88,469 10 10	128,458	182,245	310,703
Per mile of railway corresponding period of previous year ..	.....	327 15 4	.....	628 12 4	18 15 11	975 11 7	.....	.....	.....
Total to corresponding date of previous year	550,841	5,00,303 3 6	43,29,272 10	9,59,189 5 6	28,977 1 10	14,88,469 10 10	128,458	182,245	310,703

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23*rd July* 1883.

Receipts for the first 13 days of July 1889			Receipts for the first 12 days of July 1890.			Total receipts from 1st April 1889 to 13th July 1889.			Total receipts from 1st April 1890 to 12th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	14,88,470	976	1,525½	11,81,161	774	1,525½	1,35,15,220	591	1,525½	1,23,20,312	538	.....	11,94,908

* The coaching traffic shews a heavy decrease as compared with the corresponding period of 1889, which embraced 13 days as against 12, besides which the figures for the former period included abnormal traffic due to an eclipse of the moon; hence the apparent falling off.

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for the first 12 *days of July* 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
al traffic for the first 12 days July	17,396	8,416 14 0	73,391 10	4,369 9 0	69 4 0	12,855 11 0	1,670	1,206	2,876
per mile of railway	304	147 2 5	1,283 10	76 6 3	1 3 4	224 12 0	.....	.....	.....
previous weeks of half-ear	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total for the period ...	17,396	8,416 14 0	73,391 10	4,369 9 0	69 4 0	12,855 11 0	1,670	1,206	2,876
Comparison.									
al for corresponding first 12 ys of previous year	19,988½	10,504 10 8	1,20,270 0	5,520 11 0	84 9 6	16,009 15 2	1,745	1,300	3,045
mile of railway correspond-g period of previous year ...	349½	181 14 5	2,102 30	96 8 3	1 7 8	279 14 4	.....	.....	.....
al to corresponding date of evious year	19,988½	10,404 10 8	1,20,270 0	5,520 11 0	84 9 6	16,009 15 2	1,745	1,300	3,045

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23*rd July* 1883.

...CEIPTS FOR THE FIRST 13 DAYS OF JULY 1889.			RECEIPTS FOR THE FIRST 13 DAYS OF JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 13TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 12TH JULY 1890.			Total increase in 1890.	Total decrease in 1890.
...n ...ge ...ed.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
½	16,010	280	57½	12,856	225	57½	1,30,006	152	57½	1,40,469	164	10,463	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for the first 12 *days of July* 1890, *on* 22¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
traffic for the first 12 days July	36,922	8,957 15 0	8,598 0	306 0 0	13 8 0	9,277 7 0	1,545	105	1,650
r mile of railway	.....	412 9 8	.....	8 12 1	0 9 8	416 15 5	.....	.....	.....
revious weeks of half-year...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total for the period ...	36,922	8,957 15 0	8,598 0	306 0 0	13 8 0	9,277 7 0	1,545	105	1,650
Comparison.									
for corresponding first 13 s of previous year	47,353½	11,041 2 5	12,956 10	394 0 0	3 6 0	11,438 8 5	1,814	78	1,892
ile of railway correspond-period of previous year ...	.....	496 3 8	.....	17 11 4	0 2 5	514 1 5	.....	.....	.....
to corresponding date of rious year	47,353½	11,041 2 5	12,956 10	394 0 0	3 6 0	11,438 8 5	1,814	78	1,892

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23*rd July* 1883.

...EIPTS FOR THE FIRST 13 DAYS OF JULY 1889.			RECEIPTS FOR THE FIRST 13 DAYS OF JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 13TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 12TH JULY 1890.			Total increase in 1890.	Total decrease in 1890.
...n ...ge ...ed.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
	11,439	514	22½	9,277	417	22½	94,076	283	22½	94,606	283	530	.....

NALHATI STATE RAILWAY.

Approximate Return of Traffic for last 9 days of June 1890, on 27·25 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 9 days	5,150	2,000 0 0	13,570 0	790 0 0	30 0 0	2,820 0 0	654	326	98
Or per mile of railway	189	73 0 0	498 0	29 0 0	1 0 0	103 0 0	.....	.....	.....
For previous 25 weeks of half-year	*84,115	30,898 0 0	2,94,801 0	17,856 0 0	2,225 0 0	50,979 0 0	12,561	11,225	23,78
Total for 26 weeks ...	89,265	32,898 0 0	3,08,371 0	18,646 0 0	2,255 0 0	53,799 0 0	13,215	11,551	24,76
Comparison.									
Total for corresponding 8 days of previous year	3,987	1,454 0 0	11,163 0	735 0 0	22 0 0	2,211 0 0	581	291	87
Per mile of railway corresponding period of previous year ...	146	53 0 0	410 0	27 0 0	1 0 0	81 0 0	.....	.....	.....
Total to corresponding date of previous year	83,730	34,034 0 0	2,81,606 0	17,543 0 0	2,242 0 0	53,819 0 0	14,383	9,992	a24,37

* Audited up to week ending 17th May 1890.
a Corrected as per half-yearly Revenue accounts.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for last 8 days of June 1889.			Receipts for last 9 days of June 1890.			Total receipts from 1st April 1889 to 30th June 1889.			Total receipts from 1st April 1890 to 30th June 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27·25	2,211	81	27·25	2,820	103	27·25	25,579	72	27·25	*25,086	71	.....	493

* Audited up to week ending 17th May 1890.

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the last 9 days of June 1890, on 273 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	50,325	17,544 0 0	1,83,821 0	23,206 0 0	2,476 0 0	43,226 0 0	7,327	7,726	15,053
Or per mile of railway	184	64 0 0	673 0	85 0 0	4 0 0	153 0 0*	.....	.....	.....
For previous 24 weeks of half-year	1,180,820	4,75,768 0 0	60,96,185 0	6,93,787 0 0	79,602 0 0	12,49,157 0 0	128,532	230,216	358,738
Total for the half year ...	1,231,145	4,93,312 0 0	62,80,006 0	7,16,993 0 0	82,078 0 0	12,92,383 0 0	135,849	237,942	373,791
Comparison.									
Total for corresponding week of previous year	44,757	19,298 0 0	1,87,560 0	14,880 0 0	4,426 0 0	38,604 0 0	6,007	5,860	11,867
Per mile of railway corresponding week of previous year ...	164	71 0 0	687 0	54 0 0	3 0 0	128 0 0*	.....	.....	.....
Total to corresponding date of previous year	1,122,989	4,23,284 0 0	44,51,556 0	3,97,623 0 0	1,00,794 0 0	9,30,701 0 0a	128,160	154,259	282,419

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Receipts for last 8 days of June 1889.			Receipts for last 9 days of June 1890.			Total receipts from 1st April 1889 to 30th June 1889.			Total receipts from 1st 30th April 1890 to 30th June 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	33,604	136	273	43,226	159	273	5,18,321a	146	273	5,93,164	167	74,843	.....

a Includes figures for supplementary adjustments.

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No. 31 of 1890.

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OFFICIAL PAPERS.

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RESOLUTION ON THE SUBJECT OF THE FOUNDATION AND FUTURE MANAGEMENT OF A NEW LEPER ASYLUM FOR CALCUTTA.

RESOLUTION.

MEDICAL.

Dated Calcutta, the 29th July 1890.

READ—

The Annual Reports of the District Charitable Society for the years 1887, 1888, and 1889.

Read—

A letter, dated 28th June 1890, from the Joint Honorary Secretaries to the Prince Albert Victor Permanent Memorial Fund.

The Leper Asylum of Calcutta was first made over to the District Charitable Society in the year 1831, and with a short interruption has remained under the management of that body ever since. It was originally situated at Balliaghatta, but in 1840 was removed to its present site in Amherst Street, which was granted by Government, and new buildings were erected:—these, with additions and improvements made from time to time, are the premises now in use.

The working of the institution during the last three years is shown in the following table:—

	1887.	1888.	1889
Number of patients at the beginning of the year	87	72	84
Number of new patients	51	46	64
Number of re-admissions	78	72	51
Number discharged ...	124	90	88
Number died	21	16	38
	Rs.	Rs.	Rs.
Total expenditure	7,276	8,368	8,975

The number of lepers in the Town and Suburbs, as ascertained by the Census of 1881, is 387, but it seems highly probable that others have escaped enumeration, and that the actual number now existing is largely in excess of these figures. It may, therefore, be said that not more than one-fifth of the ascertained leper population are at any one time in the Asylum. Even with this number the wards are overcrowded.

The disadvantages of the present site have often been pointed out, and have long been acknowledged. It is in the middle of a crowded urban population, its limits are so circumscribed as to preclude material additions to the existing buildings, while the surrounding lands are so valuable that the quantity required could not be obtained except at enormous cost. Again, its accessibility is such as to afford the lepers very easy means of withdrawing themselves from the care and treatment which it is desirable for their own sake, as well as for their fellow-citizens, that they should receive. The statistics quoted above show how frequent these withdrawals are. In his report for 1888, the medical officer remarked that "a great number of lepers take their discharge when they have improved considerably in health by a longer or shorter stay in the Asylum, but these very same lepers are obliged again to be admitted in a worse condition than when they left, with open and foul sores, and with their health deteriorated." Under these circumstances it is obviously most desirable that the Asylum should be removed to some site, where more ample accommodation can be provided, which shall be at some distance from a dense population, which shall be wholesome and convenient for the unfortunate sufferers, and which at the same time shall not be sufficiently easy of access to tempt them to leave it readily.

Hitherto the District Charitable Society has received a grant of Rs. 100 per mensem from the Calcutta Municipality, an annual grant of Rs. 125 from Government for medicines, and the interest, amounting to Rs. 596 a year, of two special Trust Funds. With the exception of the Rs. 1,921 thus obtained, the District Charitable Society has met the expenditure of the asylum from its general funds. In 1889 this excess expenditure amounted to upwards of Rs. 7,000 per annum.

Excluding the grants of the Government and the Municipality, the assets of the Asylum, apart from any share which might be assigned to it from the general funds, are the endowments, the capital value of which is Rs. 19,500, and the site and buildings which are, the Lieutenant-Governor is informed, worth Rs. 80,000.

Sir Steuart Bayley is satisfied that the whole subject is one which can best be considered by a Committee, the composition of which he proposes shall be as follows:—

The President and two members of the District Charitable Society;
The Chairman and two members of the Corporation of Calcutta;
Mr. W. J. Simmons on the part of the Health Society;
A representative of the Permanent Memorial Fund;
Two medical officers to be appointed hereafter.

It is possible that experience may show the necessity of nominating additional members: in this case the Lieutenant-Governor will appoint them.

The appointment of this Committee is in substantial accordance with the wishes of the subscribers to the Permanent Memorial Fund, as expressed by the Joint Honorary Secretaries, who have intimated that the subscriptions in aid of that Fund amount to Rs. 46,328, of which Rs. 20,756 have been realized. This sum, even if only a portion of the balance be collected, will be a material help to the institution which it is proposed now to reform, and Sir Steuart Bayley has observed with satisfaction that the subscribers propose to apply it in this manner rather than to attempt the establishment of an independent Asylum.

In reply to this communication, which reached him in Darjeeling, the Lieutenant-Governor informed the Joint-Secretaries that he would let them know his views after he had returned to Calcutta and consulted the Local authorities; in the meantime a copy of it was communicated to the Calcutta Corporation and to the District Charitable Society. His Honour now finds that no further preliminary references need be made, since there is ample evidence that immediate action is unanimously admitted to be necessary; and he recognizes the anxiety of all parties that this action should be undertaken in combination, and harmoniously carried through to a successful result.

The Lieutenant-Governor will now ask the Calcutta Corporation, the District Charitable Society, and the subscribers to the Permanent Memorial Fund, to nominate their several representatives; on receipt of their replies the Committee will be formally appointed and gazetted. The most obvious topics for the consideration of the Committee appear to be the locality for a new Asylum, the number of inmates for whom accommodation should be provided (on the assumption that no more stringent provision is made for compulsory detention than is contained in the Bill already circulated by the Government of India), the provision of funds for its maintenance and superintendence, the constitution of a governing body, and the regulation of the conditions under which patients are to be admitted, retained and discharged. But this enumeration is not intended to be exhaustive, and Sir Steuart Bayley will be glad to receive the advice of the Committee on any other points which may appear to them likely to promote the successful establishment and management of this most important institution.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 26th July, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
BURDWAN DIVN. 1	Burdwan July 26, '90	5·88	Weather—rainy and seasonable. Transplantation of *amun* and *aus* going on Sugarcane doing well. Prices of common rice :— Srs. Burdwan ... ... 15 Culna ... ... 13 Cutwa ... . 14 11/12 per rupee. Ranigunge 15
	Culna ...	3·67	
	Cutwa ...	2·95	
	Ranigunge ...	2·22	
2	Bankoora ,, 26, '90	3·03	Weather—warm and cloudy. Transplanting of *amun* rice still going on. Weeding of *aus* continues. Sugarcane thriving. Common rice sells at 18 seers per rupee at Sudder and 17½ seers at Bishenpore.
3	Birbhum ,, 26, '90	5·58	The rainfall of the season has been unusually heavy. Last year (a particularly favourable agricultural year) there were almost exactly 12 inches of rain in each of the months of June, July, August, and September—say 48 inches in the 4 months. This year 34 inches of rain have already fallen before the first 2 months are over. The present condition of the crops is all that could be desired. Prices 15 to 18 seers per rupee for common rice.
	Rampore Haut ...	4·42	
4	Midnapur ,, 26, '90	2·24	Sky overcast; frequent but not heavy rain. Rice doing well everywhere, but the high lands in Tumlook are said to want more rain. Prices of common rice :— Srs. Sudder ... ... 15 Contai ... ... 18 Tumlook ... ... 14½ per rupee. Ghatal 16
5	Hooghly ,, 26, '90	2·06	Weather—showery. State and prospects of crops excellent. Prices of common rice :— Srs. Ch. Sudder ... ... 13½ 0 Serampore ... ... 16 0 per rupee. Jehanabad 14 14
	Serampore ...	1·16	
	Jehanabad ...	4·25	
	Howrah ,, 26, '90	2·24	Weather—showery. Transplanting of *amun* in progress. *Aus*, sugarcane, and jute doing well. More rain wanted in the Uluberia subdivision. Price of common rice 13 to 14 seers per rupee.
	Uluberia ...	0·88	
	Central Districts.		
PRESIDENCY DIVN. 6	24-Pergbs. July 26, '90	2·71	Weather—seasonable. Prospects of *aus* and jute fair. Transplantation of *amun* proceeding briskly. More rain wanted. Prices stationary.
7	Nuddea ,, 26, '90	2·23	Weather—cloudy with occasional rain. Prospects of early rice good. Paddy on low lands in some places is being reaped.
	Kushtea ...	1·38	
	Meherpore ...	2·15	
	Chuadanga ...	1·21	
	Ranaghat ...	1·83	
8	Khoolna ,, 26, '90	3·26	Weather—rainy. Prospects and condition of crops continue favourable. Transplantation of *amun* still going on.
	Bagirhat ...	3·54	
	Satkhira ...	5·28	
9	Jessore ,, 26, '90	2·79	Weather—seasonable. *Aus* harvesting has commenced; outturn expected to be satisfactory. *Amun* and jute doing well.
	Jhenidah ..	2·19	
	Magura ...	0·96	
	Narail ...	0·48	
	Bongong ...	2·45	
10	Moorshedabad ,, 26, '90	7·92	Weather—wet. *Amun* and *aus* doing well. Transplantation going on.
RAJSHAHYE DIVN. 11	Dinagepur ,, 26, '90	5·54	Weather—very wet. About half the *haimanti* paddy has been transplanted. The present rains very favourable for this crop. Prospects of other crops continue favourable. Price of rice as before.
	Thakurgaon ...	3·30	
12	Rajshahye ,, 26, '90	6·65	Weather very seasonable, there being abundance of rain. Prospects favourable throughout the district. Jute is being steeped, with promise of fair outturn. *Aus* coming on nicely. *Amun* is being transplanted.
	Nattore ...	2·36	
	Nowgong ..	6·48	
13	Rungpur ,, 26, '90	2·57	Weather—cool and cloudy with frequent heavy showers. All crops promise well. Jute is being cut. Transplantation of *amun* continues. Sugarcane coming up well.
	Nilphamari ...	1·86	
	Kurigram ...	3·68	
	Gaibanda ...	1·36	
14	Bogra .. 26, '90	2·93	Weather—seasonable. State and prospects of all crops very good. Common rice selling at 19 seers per rupee.
	Sherpur ..	3·92	
	Nowkbilla ...	4·65	
15	Pubna ,, 26, '90	3·31	Weather—hot and cloudy. Prospects of jute, *aus*, and *aman* continue good. Prices have fallen slightly.
16	Darjeeling ,, 26, '90	10·22	Weather—very rainy and cloudy. Excessive rain has done damage to jute in the Terai and has retarded transplantation of *aghani* rice in places. Sunshine is much needed for the tea gardens, and the outturn of tea generally is much behind the average.
17	Julpigoree .. 26, '90	7·84	Weather—seasonable. Prospects of standing crops generally good. Common rice selling at 14 seers per rupee at the Sudder station.

	No.	District and date of return.	Rainfall at each Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—*concluded.*				
		Eastern Districts.		
Dacca Divn.	18	Dacca July 26, '90	2·40	Weather—rainy and cloudy with gleams of sunshine at intervals. Jute and *aus* paddy being harvested. *Aus* paddy has suffered to some extent owing to rapid rise of rivers. Prospects of *amun* and other crops good. Fodder is not available in abundance. Price of common rice stationary.
	19	Furreedpur ,, 26, '90	4·10	Weather—seasonable. Harvesting of *aus* paddy and jute continues. *Amun* doing well. Crops partially damaged in some parts of Madaripore by insects. River rising. Price of common rice stationary.
	20	Backergunge ,, 26, '90	4·45	Weather—seasonable. Prospects of standing crops generally good. Extent of sowing and transplanting of *amun* same as last year. Common rice selling at about 14 seers per rupee.
	21	Mymensingh ,, 26, '90	2·18	Weather cloudy and rainy. *Aus* paddy and jute being harvested. Transplantation of *amun* still going on. Prospects of standing crops favourable. Common rice sells at 13 seers 9 chittacks per rupee.
Chittagong Divn.	22	Chittagong ,, 26, '90	8·05	Weather—seasonable *Aus* crop sown to the extent of over 12 annas. Prospects good. Common rice selling at 17 seers per rupee.
	23	Noakholly ,, 26, '90	6·29	Weather—seasonable. Reaping of *aus* commenced. Prospects generally good. *Amun* crop is being transplanted.
	24	Tipperah ,, 26, '90	4·46	Weather—very rainy and cloudy. Transplanting of *amun* going on. Here and there *aus* and jute being cut. Prospects of paddy good.
	25	Chittagong Hill Tracts.	.	Report not received.
		Hill Tipperah ,, 25, '90	2·60	Weather rainy. Harvesting of *aus* paddy and *til* nearly completed. Transplanting of *amun* continues. Prospects of *jum* crops fair. No change in prices.
BEHAR.				
Patna Divn.	26	Patna ,, 26, '90	2·22	Weather—hot. Transplantation of paddy going on. Prospects of *bhadoi* crops fair, but cessation of rain is required. Harvesting of *cheena* has commenced in the Barh subdivision. Prices of food-grains almost stationary.
		Barh ...	2·00	
		Dinapore .	4·80	
	27	Gya ,, 25, '90	5·44	Weather—cloudy. Transplantation of paddy commenced. Sugarcane doing well. *Bhadoi* has been much injured by excessive rain. Prices of food-grains stationary.
	28	Shahabad ,, 26, '90	15·30	Weather—very wet; cooler. In the Buxar and Sudder subdivisions *bhadoi* crops very much damaged by excess of rain. In Sasseram and Bhabuah prospects of *bhadoi* crops reported to be better. Paddy thriving. Prices stationary.
		Buxar ...	5·95	
		Bhabuah ..	2·75	
	29	Sasseram .	7·42	
		Durbhunga ,, 26, '90	4·71	Weather—cloudy and rainy. Prospects of *bhadoi* crops continue very favourable. Transplantation of rice is being rapidly pushed on. Indigo manufacture in progress. Prices remain unchanged.
		Madhubani ...	5·85	
		Soumastipur ...	9·17	
	30	Mozufferpur ,, 26, '90	7·82	Rainfall during five days of the week. Prospects of all crops excellent, but a few days of sunshine now wanted.
		Hajipur .	4·04	
		Sitamarhi ...	3·64	
	31	Saran ,, 26 '90	3·76	Weather—continually wet: rain every day. Rice very good. *Bhadoi* wants some sun. About ⅔ of *rahar* sown; remainder of the crop will be sown after some fine weather.
	32	Chumparun ,, 26, '90	3·84	Weather—rainy. Heavy rain again last night (24th) and night before Sky still covered with clouds. Sunshine urgently needed to save *cheena*, *makai*, and *marua* from damage. Paddy transplantation continues, but coming to a close. Indigo manufacture progressing.
		Bettiah ...	6·21	
Bhagulpore Divn.	33	Monghyr ,, 26, '90	3·80	Weather—cloudy and rainy. *Makai* and *marua* doing well, also *aghani* rice. Transplanting going on.
		Begusarai ...	1·73	
		Jamui ...	6·45	
	34	Bhagulpur ,, 26, '90	2·81	Weather—rainy with a good deal of cloud. There has been enough rain everywhere for the crops except in the north-east of Soopool, where it is reported scanty. Transplantation is being vigorously pushed on, and standing crops are doing well. Harvesting of *cheena* and *janera* commenced, and outturn likely to be good.
		Banka ..	6·12	
		Mudhepura ..	3·89	
		Soopool ...	3·23	
	35	Purneah ,, 26, '90	3·16	Weather—cloudy with showers. Prospects continue favourable, except where floods have done damage in the centre of the district and along the course of the Kusi and Mahanadi. Transplanting going on. A break in the rains would do good.
		Kishengunge ...	3·12	
		Arrareah ...	5·03	
	36	Maldah ,, 26, '90	2·07	Weather—cloudy and rainy. Harvesting of *bhadoi* commenced in thana Ratua and outpost Manickchak. About 2 annas of the crop in the Maldah station have been destroyed by inundation. Transplantation of winter rice in progress. Manufacture of indigo is being pushed on vigorously. Common rice selling at from 14 to 16 seers per rupee.
		Chanchal ...	2·43	
		Shibgunge ...	4·12	
		Gajole ...	5·67	
	37	Sonthal Pergns. ,, 26, '90	4·04	Weather—wet and cloudy. Rain every day, and cultivators are very busy transplanting paddy. *Janera* coming up well, and all other crops progressing satisfactorily.
		Deoghur ...	6·96	
		Godda ...	6·60	
		Jamtara ...	5·82	
		Pakour ...	2·50	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack July 26, '90	5·48	Weather—seasonable. Transplanting of *sarad* and weeding of *beali* going on. Slight damage of the paddy crop from the rise of the rivers is reported from the Jhalkuri chakla of the Jajpur subdivision. Prospects generally good.
	39	Pooree ,, 24, '90	2·10	Weather—seasonable. Puddling and transplanting of *sarad* crop going on. *Beali* being weeded. Price of common rice stationary.
	40	Balasore ,, 26, '90	2·29	Weather—seasonable. Transplanting and puddling of rice crop continue. Prospects generally good. Number of coolies on relief-works 48.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh July 26, '90	5·69	Weather—seasonable. A break in the rains required. Transplanting of rice in progress. Some injury to Indian-corn by heavy and incessant rain, otherwise prospects good. Common rice selling at from 15 to 18 seers per rupee.
	42	Lohardugga ,, 26, '90	3·39	Weather—seasonable. Rain daily during the week. Sowing of winter rice crop finished. Transplantation commenced. *Bhadoi* crops doing well.
		Palamow (up to 21st July)	6·85	
	43	Singbhoom July 26, '90	1·88	Weather—seasonable. Condition of crops very favourable in all parts of the district. Prices of common rice range from 20 to 24 seers per rupee.
	44	Manbhoom ...	..	Report not received.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 29th July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 20th to 26th July 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
July	20th	154·5	2·7	29·423	82·9	88·4	9·2	79·2	79·9	0·980	78·6	87	ENE, E and SE ...	144	0·56	Chiefly cloudy, o, g, d, t, p.
,,	21st	151·5	1·9	·420	83·4	87·5	9·1	78·4	80·4	1·000	79·2	87	SE by E and S ...	81	0·01	Chiefly cloudy, o, d.
,,	22nd	155·4	1·6	·441	83·3	88·1	10·5	77·6	80·4	1·000	79·2	88	S and SSE ...	75	0·31	Chiefly cloudy, o, p.
,,	23rd	121·3	Nil	·473	81·8	84·3	7·0	77·3	79·9	0·998	79·2	92	SSW and calm ...	37	1·30	Cloudy, o, g, d, p.
,,	24th	145·3	0·6	·538	81·3	84·2	7·0	77·2	78·6	·942	77·4	88	SW and SSW ...	151	0·10	Chiefly cloudy o, p.
,,	25th	149·5	0·7	·538	82·7	86·7	9·3	77·4	78·6	·923	76·8	83	SW and SSW ...	184	Nil	Chiefly cloudy o.
,,	26th	143·4	0·7	·537	81·6	86·7	10·1	76·3	78·4	·930	77·0	86	SW by S, SW and SSW.	125	0·47	Chiefly cloudy, o, g, d, p, t.

	Inches.
The mean pressure of the seven days	29·481
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·519
	Hours.
The total number of hours of bright sunshine	8·2
The maximum possible number of hours of sunshine	92·8
	°
The mean temperature of the seven days	82·4
The average temperature of the corresponding period for 24 years, S.-G.'s Office	83·3
The extreme variation of temperature	12·1
The maximum temperature	88·4
	Miles.
The highest velocity of the wind in one hour	16
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	87
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	86
	Inches.
The total fall of rain from 20th to 26th July 1890	2·75
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	2·92
The total fall from 1st January to 26th July 1890	29·52
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	31·90

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; t, thunder; p, passing temporary showers.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 28th July 1890.

Meteorological Report of the Province of Ben

he week ending Friday, the 25th of July 1890.

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.
Orissa.	Pooree	Pooree	·2365	·2547	..	Variable	11·0	93·7	19th July	78·6	1st July	87·4*	79·4*	83·4*	—
		Gopalpore	29·535	29·557	·018	SSW	42·0	99·2	19th ,,	78·8	20th, 24th 25th July	86·1	79·7	82·9	0
		False Point	29·516	29·537	—·068	SW	28·0	90·5	19th ,,	73·6	25th ,,	86·5	77·2	81·9	—0·9
	Cuttack	Cuttack	29·493	29·514	—·048	SW	105·5	92·4	19th ,,	75·8	24th ,,	87·8	78·2	83·0	—0·9
	Balasore	Balasore	29·497	29·526	—·063	SW	182·2	92·4	19th ,,	75·7	24th & 25th July	87·4	78·3	82·9	—0·1
South West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·496	29·522	—·059	SW	173·1	91·2	20th ,,	79·0	19th & 22nd July	86·0	80·2	84·1	+0·3
	Midnapore	Midnapore	29·570	29·520	—·067	S	117·6	93·3	19th ,,	76·1	19th & 24th July	86·4	77·9	83·2	—0·5
	24-Pergunnahs / Howrah / Hooghly	Calcutta	29·500	29·521	—·054	Variable	96·0	90·0	19th ,,	77·2	23rd to 25th July	87·3	77·9	82·6	—0·7
	Burdwan	Burdwan	29·423*	29·522*	—·052*	South-easterly	10·8	92·1	19th ,,	78·4	19th, 24th, 25th July	89·2	70·4	84·3	—0·7
	Bankoora	Bankoora	29·200	29·498	—·054	Variable	98·0	89·6	20th ,,	75·6	19th ,,	87·2	77·7	82·4	—1·2
	Beerbhoom / West Burdwan	Ranegunge	29·213	29·543	—·024	Variable	71·1	90·5	20th, 22nd July	76·8	19th ,,	88·6	78·0	83·3	—0·8
East Bengal.	Moorshedabad	Berhampore	29·456	29·523	—·058	E	106·3	89·6	19th, 20th July	76·3	24th ,,	87·8	77·7	82·8	—1·7
	Nuddea	Krishnaghur	29·473	29·521	—·049	ESE	151·8	91·8	19th ,,	76·8	23rd & 24th July	89·5	78·1	83·8	—0·5
	Jessore / Khoolna	Jessore	29·500	29·553	—·060	?	?	91·8	19th ,,	78·4	21st to 25th July	89·1	79·0	84·1	—0·5
	Chittagong	Chittagong	29·625	29·615	—·045	SE	153·0	87·1	20, 22 to 24th July	73·0	23rd to 25th July	86·8	73·4	80·1	—0·9
	Chittagong Hill Tracts	Demagiri							observations not received.						
	Backergunge	Barrisal	29·557	29·560	—·032	SE	109·5	87·3	22nd July	77·3	23rd ,,	85·7	78·0*	81·9*	+0·2*
	Noakholly	Noakholly	29·557	29·601	—·040	SE	221·7	89·5	20th ,,	75·8	21th ,,	84·5	77·3	80·9	—0·6
	Furreedpore	Furreedpore	29·522	29·562	—·035	SE	148·9	88·0	19th ,,	77·4	24th ,,	86·8	70·0	82·9	+0·2
	Dacca	Dacca	29·555	29·558	—·053	Easterly	253·8	88·1	19th to 22nd July	76·7	23rd ,,	87·8	77·8	82·8	—1·3
	Commillah	Commillah	29·547	29·575	—·044	South-easterly	178·9	85·0	20th ,,	75·8	23rd ,,	86·6	76·7	81·7	—0·9
	Mymensingh	Mymensingh	29·510	29·568	—·051	ESE	150·9	86·2	23rd ,,	76·6	20th ,,	85·5	77·5	81·5	—1·7
North Bengal.	Bogra	Bogra	29·564	29·627	—·059	ESE	122·5	88·8	19th ,,	77·1	24th ,,	87·9	78·1	83·0	—1·0
	Pubna	Serajgunge	29·490	29·546	—·055	SSE	7·3	88·6	19th, 20th July	76·7	24th ,,	87·1	78·3	82·7	—1·1
	Rajshahye	Rampore Beauleah	29·456	29·502	—·042	South-easterly	122·4	89·6	20th ,,	77·6	19, 20, 24, 25th July	87·2	78·1	82·7	—1·4
	Maldah	Maldah	29·445	29·526	..	SE	74·6	91·3	19th ,,	77·5	24th ,,	89·6	79·0*	84·3	—
	Dinagepore	Dinagepore	29·432	29·531	—·077	E	67·6	90·1	20th & 21st July	78·1	24th, 25th July	88·5	79·4	84·0	—0·9
	Rungpore	Rungpore	29·437	29·561	—·036	E	95·0	90·3	20th ,,	77·7	23rd & 24th July	89·1	78·5	83·8	—0·9
	Julpigoree / Cooch Behar	Julpigoree	29·270	29·559	—·012	?	?	89·9	20th ,,	76·1	25th ,,	88·5	76·2	82·3	—1·1
North Bengal.	Darjeeling Hill Tracts	Darjeeling	22·806	..	—·062	ESE	7·9	66·6	20th to 23rd July	50·7	21st ,,	65·9*	57·2	61·5*	—0·8*
	Purneah / North Bhagulpore	Purneah	29·400	29·525	—·051	E	82·0	90·7	21st ,,	76·4	25th ,,	89·3	78·2	83·8	—1·0
North Behar.	Mozufferpore	Mozufferpore	29·314	29·493	—	E & ESE	18·1	90·3	21st ,,	77·2	19th & 25th July	87·7	79·1	83·4	—
	Durbhunga	Durbhunga	29·348	29·514	—·052	ENE	169·0	91·4	21st ,,	75·5	25th ,,	87·9	78·1	83·0	—2·1
	Chumparun	Motihari	29·288	29·524	—·035	ESE & ENE	219·1	91·2	21st & 23rd July	75·9	25th ,,	88·9	78·6	83·5	—1·5
	Saran	Chupra	29·296	29·488	—·047	E	212·1*	90·3	21st ,,	76·0	19th ,,	87·6	78·4	83·0	—2·6
South Behar.	Shahabad	Dehree	29·150	29·402	—·065	Variable	85·2	92·5	21st ,,	75·0	19th ,,	87·..	78·2	82·7	—0·6
		Buxar	29·..	29·..	—·..	ENE	135·0	88·9	21st ,,	76·8	19th ,,	85·7	79·1	81·9	—2·8
		Arrah	29·280	29·384	—·061	Calm	7·3	91·1	21st ,,	71·7	20th ,,	87·7	77·1	82·4	—3·3
	Gya	Gya	29·128	29·396	—·062	E	111·6	90·4	21st ,,	77·8	24th ,,	88·3	79·3	83·8	—1·4
	Patna	Bankipore	29·..	29·..	—·075	E	181·4	90·9	21st ,,	77·2	24th ,,	87·4	79·4	83·4	—1·9
South Behar.	South Bhagulpore / Monghyr	Bhagulpore	29·343	29·504	—·052	Variable	77·7	90·2	21st ,,	77·0	19th ,,	88·8	78·8	83·8	—1·0
	Sonthal Pergunnahs	Doomka	29·014	29·569	—·052	E	100·9	90·3	20th ,,	75·6	19th ,,	87·1	77·1	82·1	—1·0
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·524	29·..	—·059	Westerly	102·0	84·9	21st ,,	71·2	25th ,,	82·1	72·9	77·5	—1·6
	Lohardugga / Manbhoom	Ranchi	27·405	29·529	—·057	Variable	132·8	84·0	23rd ,,	70·0	25th ,,	81·8	71·8	76·8	—1·3
	Singbhoom	Chyebassa	·6753	29·514	—·043	SW	59·6	90·4	19, 20, 22, & 23 July	76·2	24th ,,	88·0	77·6	82·8	+0·1
Assam.		Sibsagar	29·259	29·624	—·030	SE	..	91·1	23rd ,,	75·5	24th ,,	88·7	76·9	82·8	—1·9
	Assam	Dhubri	29·451	29·568	—·022	Easterly	118·7	89·2	21st ,,	76·3	24th ,,	85·9	77·4	81·5	—1·7
		Silchar	29·511	29·617	—·038	ESE	51·0	93·5	24th ,,	75·3	20th ,,	90·0	74·9	82·6	—0·3

DISTRICT OBSERVATIONS.

Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Rainfall. Of week. Mean for district.	Rainfall. Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Rainfall. Since 1st of month. Normal mean.	Rainfall. Since 1st of month. Variation.	Rainfall. Since 15th May 1890. Mean for district.	Rainfall. Since 15th May 1890. Normal mean.	Rainfall. Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
9·7	2·10		3·05		10·04			20·17			4·0	Pooree	Pooree	Orissa.
7·9	0·86											Gopalpore		
9·7	1·61											False Point		
9·4	3·88	4·12	2·79	12·78	10·05	+2·73	25·00	21·42	+3·58	5·4	4·1	Cuttack	Cuttack	
6·0	2·55	2·95	2·93	7·04	10·31	—3·27	24·11	21·29	+2·82	4·7	4·0	Balasore	Balasore	
9·6	1·25	1·35	3·33	5·53	11·98	—6·45	22·42	24·01	—1·59	5·0	4·7	Saugor Island	South-West Midnapore / South 24-Pergunnahs	South West Bengal.
4·6	2·16	1·66	2·63	5·58	9·79	—4·21	26·03	21 23	+4·80	5·0	4·4	Midnapore	Midnapore	
9·4	2·35	2·52	2·94	6·57	9·22	—2·65	25·86	21·76	+4·10	5·3	4·8	Calcutta	24-Pergunnahs... / Howrah ... / Hooghly ...	
9·4	4·88	3·82	2·24	10·47	7·57	+2·90	33·59	19 09	+14·50	4·7	4·1	Burdwan	Burdwan	
8·7	7·57	4·44	2·60	10·24	9·74	+0·50	28·02	21·85	+7·07	5·5	4·2	Bankoora	Bankoora	
9·4	2·23	3·84	2 71	12·96	9·45	+3·51	31·96	21·52	+10·44	6·5	4·6	Ranegunge	Beerbhoom ... / West Burdwan ...	
9·3	4·04	3·79	1·95	11·07	8·43	+2·64	25·30	20·70	+4·66	6·0	4·0	Berhampore	Moorshedabad ...	South West Bengal.
8·4	2·31	1·82	1·88	8·40	7·70	+0·76	24·47	20·94	+3·53	4·6	4·1	Krishnaghur	Nuddea	
9·1	2·70	2·76	2·28	8·06	8·30	—0·33	27 38	24·08	+3·30	5·6	5 2	Jessore	Jessore ... / Khoolna ...	
8 7	7·73	9·85	6·47	29·59	22·78	+6·81	59·39	57·70	+1·69	6·5	6·3	Chittagong	Chittagong	East Bengal.
			2 82		11·69			35·40			6·1	Demagiri	Chittagong Hill Tracts	
9·1	5·32	5·57	3·93	14·36	13·84	+0·72	36·72	36 96	—0·24	5·8	5·6	Barrisal	Backergunge	
4·0	0·13	7·49	4 94	18 15	17 43	+0·72	45·95	49·50	—3·55	6·5	6·2	Noakholly	Noakholly	
7·1	3·86	2·81	2·30	7·29	8·45	—1·16	19·91	25·35	—5·44	4·7	5·0	Furreedpore	Furreedpore	
9·3	2·83	2·79	2·07	11·88	10 43	+1·45	33·64	27·71	+5·93	7·0	5·2	Dacca	Dacca	
7·0	5·21	2·94	2·54	11·34	10·11	+1·23	32·23	30 80	+1·43	5·5	5·4	Commillah	Tipperah	
8 4	2·13	2·28	2·68	11·43	9·99	+1·44	38·61	32·44	+6·17	5·4	5 2	Mymensingh	Mymensingh	
8·1	4·08	4·32	2 25	8·75	9·78	—1·03	29·47	27·28	+2·19	5·3	4 8	Bogra	Bogra	
8·3	3·25	2·07	1·60	7·08	7·75	—0 67	23·74	22·72	+1·02	7·0	4 5	Serajgunge	Pubna	
3·6	6 67	5·65	1·88	13·69	8·93	+4·76	36·37	23·54	+12·83	6·3	3·8	Rampore Beauleah	Rajshahye	
5 7	2·07	2 25	1·65	6·80	7·27	—2·47	20·49	23·02	—3·43	5·5	4·2	Maldah	Maldah	
9·1	5·35	4·03	2·19	13·06	9·47	+2·59	32·06	27·16	+4·90	4·6	4·2	Dinagepore	Dinagepore	North Bengal.
4·3	1·41	2·72	2·72	8 65	11·21	—2 56	40·90	40·14	+0·76	5·3	4·3	Rungpore	Rungpore	
2·0	7·52	5·20	4·50	24·20	17·19	+7·01	71·87	57·03	+14 84	5·6	5·7	Julpigoree	Julpigoree ... / Cooch Behar ...	
9·4	10·20	9·23	5·81	43·50	27·11	+16·45	80·30	62·17	+18·23	7·0	6·0	Darjeeling	Darjeeling Hill Tracts	
9·0	3·12	4·17	2·73	17·10	10·83	+6·22	35·52	25·41	+10·11	5·4	4·9	Purneah	Purneah / North Bhagulpore ...	
5·7	14·19	4·42	2·08	13·47	9·05	+4·42	23·61	17·86	+5·75	4·3	3·5	Mozufferpore	Mozufferpore	North Behar.
7·7	4·74	4·87	2·27	15·46	9·11	+6·35	27·52	18·49	+9·03	4·3	3·6	Durbhunga	Durbhunga	
6·8	8·95	5·03	2·03	15·32	9·50	+5·72	31·59	19·54	+12·05	4·5	3·1	Motihari	Chumparun	
5·3	2·63	3·05	1·96	9·22	9·08	+0·14	21·42	16·63	+4·79	5·3	3 2	Chupra	Saran	
7·7	7·45											Dehree	Shahabad	South Behar.
9·0	4·03	7·28	2·35	13·97	8·40	+5·57	24·82	14·26	+10·63	6·2	4 0	Buxar		
9·1	15·30											Arrah		
8·0	6·44	4·50	2·23	14·47	8·51	+5·96	28·57	15·53	+13·04	5·8	4·1	Gya	Gya	
10·0	2·22	2·86	2·22	9·03	8·73	+0·30	18·82	16·41	+2·41	5·5	4·2	Bankipore	Patna	
9·0	3·90	4·55	2·36	10·61	8·28	+2·33	25·42	16·98	+8·44	6·4	4·3	Bhagulpore	South Bhagulpore ... / Monghyr ...	
8·7	4·04	3·74	2·51	11·75	9·52	+2 23	20·73	21·04	+8·69	6·8	4·4	Doomka	Sonthal Pergunnahs...	
10·0	7·99	5·73	2·88	13·96	10·24	+3·72	26·30	19·87	+6·43	6·8	5·0	Hazaribagh	Hazaribagh	Chutia Nagpur.
10·0	3·66	6·54	2·90	11·05	9·67	+1·38	20·20	18·20	+1·36	6·3	5·0	Ranchi	Lohardugga ... / Manbhoom ...	
		2·90	2·20	3·36	9·97	—0·71	23·13	18·89	+5·25	6·5	5·1			
8·7	1·63	1·88	3·59	7·04	10·89	—3·85	19·17	21·78	—2·61	6·0	4·9	Chyebassa	Singbhoom	
10·0	4·60											Sibsagar		Assam.
9·3	3·30											Dhubri	Assam	
9·6	3·42											Silchar		

* Mean of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for th
The Assumidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The ant
for the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the
Means in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

arly. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
ng cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
ns. The means o the district are the numerical average of the rainfall returns received in the districts, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of July 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May.	Average rainfall from 1 May to date
			Saturday, 19th July.	Sunday, 20th July.	Monday, 21st July.	Tuesday, 22nd July.	Wednesday, 23rd July.	Thursday, 24th July.	Friday, 25th July.	Number of rainy days.	Rainfall of week.				
Orissa ...	Pooree ...	Pooree ...	0·56	1·56	0·06	0·01	.....	0·17	0·09	6	2·45	13·47	8·71	24·60	18·
		Khurdah ...	0·39	1·53	.....	0·31	0·05	3·20	1·14	6	6·62	20·38	10·83	36·43	22·
		Banpur ...	1·05	.....	.....	1·15	0·49						8·88		16·
		False Point ...	0·14	0·79	0·15	.....	0·03	0·08	0·42	6	1·61	10·18	11·76	22·89	23·
		Gop ...											?		
		Satpara ...	.....	1·20	.....	.....	0·35	0·10					?		
		Pipli ...											?		
	Cuttack ..	Jagatsingpore	2·14	0·04	.....	.....	...	1·30	0·00	4	4·06	13·40	8·58	23·58	17·
		Banki ...	0·50	1·10	.....	.....	0·04	0·07	1·43	5	3·14	12·97	10·16	27·52	20·
		Cuttack ...	1·63	2·40	.....	0·40	0·35	1·50	0·83	6	7·11	17·57	10·89	33·03	25·
		Kendrapara ...	0·10	0·09	0·02	0·12	0·42	1·13	0·35	7	2·73	9·65	10·15	17·98	20·
		Jajpore ...	0·22	0·29	... ..	0·62	0·45	.....	1·95	5	3·53	10·30	10·44	24·84	22·
		Dharmsala ...	0·50	.....	0·12	1·00	0·17	10·95	.....	5	2·74	9·91	?	27·91	
		Salipore ...	1·44	.....	.....	0·10	1 63	0·53					?		
	Balasore ...	Chandbali ...	0·23	0·35	0·02	.....	0·25	4·10	0·45	6	5·39	10·32	9·47	22·87	19·
		Bhuddruck ...	0·03	0 20	.....	0·40	.....	.....	0·75	4	2·28	7·15	9·11	25·58	2·
		Sorah ...	.. ...	... ..	.....	0·40	1·20	.....	0·40	3	2·00	6·10	9·50	22·28	19·
		Balasore ...	0·14	0·31	1·30	.....	.....	0·54	0·08	5	2·37	5·56	11·00	25·75	*22·
		Jellasore ...	... .	... .	0·62	.....	.....	1·62	0·16	3	2 40	5·79	12·04	23·75	21·
		Baripodah ...	0·02	2·10	0·10	0·72	0·15	0·02	0·15	7	3·26	6·98	10·64	24·32	22·
South-West Bengal.	Midnapore ...	Contai ...	0·05	0·17	0·08	.....	.....	.....	0·08	4	0·38	3·50	11·71	23·56	23·
		Saugor Island	.....	0·26	0·37	0·44	.....	0·18	.....	4	1·25	7·93	12·62	23·31	25·
		Tumlook ...	.....	0·50	0·20	0·10	0 20	0·50	.....	5	1·50	5·30	8·85	27·00	20·
		Midnapore ...	.....	0·45	0·61	0·40	0·53	0·25	.....	5	2·24	5·39	9 6)	28·29	20·
		Ghattal ...	0·26	0·12	0·11	.....	0·71	1 77	.....	5	2·87	7·08	10·91	24·54	22·
		Kukrahaty ...	0 38	0·46	0·43	.....	.....	0·52	.....	4	1·79	4·76	?	16·87	
		Garbetta ...	2·05	0 48	... ..	0·24	0·19	0·64	.....	5	3·60	6·39	?	21·69	
	24-Pergunnahs	Diamond Harbour ...	0·06	0·16	0·26	1·12	0·04	0·62	0·15	7	2·41	5·13	11·02	20·32	23·
		Canning Town	.....	0·18	0·35	1·38	... ..	1·47	0·13	5	3·51	8·49		26·94	
		Alipore Jail ...	0 04	0·03	0·69	0·31	1·45	0·23	.....	6	2·75	9·43	10·17	27·55	22·
		Barrackpore...	0·06	0·45	0·05	0·07	0·58	0·73	.....	6	1·94	6·07	8 81	22·37	21·
		Dum-Dum ...	.....	0·26	0·71	.....	1·19	0·16	.....	4	2·32	5·75	8·34	22·19	21·
		Baraset ...	0·48	.....	0·30	.....	0·57	0·28	.....	4	1·63	5·21	8·02	22·10	20·
		Buseerhat ...	0·08	.....	0·61	.....	2·40	1·78	0·03	5	4·90	9·81	9·44	30·21	24·
	Howrah ...	Howrah ...	.....	0 24	0 70	0·11	0·83	0·36	.....	5	2·24	7·51	9·30	23·96	21·
		Mohesreka ... (*Collibersah*)	0·02	0 24	0·10	0·02	0·50	.....	.....	5	0·88	3·48	10·48	33·90	22·
	Hooghly ...	Serampore ...	0·07	0·03	0 88	0·02	0·10	1·05	.....	6	2·15	5·98	9·20	22·82	21·
		Hooghly ...	0·05	0·03	0·21	0·18	1 54	0·10	.....	6	2·11	4·81	8·54	24·27	20·
		Jehanabad ...	0·55	0 76	0·05	0·26	1·40	1·23	.....	6	4·25	7·04	9 64	28·73	21·
	Burdwan ...	Oulna ..	.....	.....	0·88	... ..	2·10	0·69	.....	3	3·67	9·08	7·62	29·80	18·
		Burdwan ...	1·35	0·15	0·14	0·14	0·27	3·80	0·03	7	5·88	14·07	8·12	37 86	19·
		Cutwa ...	.....	0·20	0·10	0·01	0·69	.....	.....	4	1·80	8·26	6·97	33·11	19·
		Raneegunge ...	0·59	0·01	1·18	0·28	1·01	0·15	0·01	7	2·23	11·19	9·78	31·56	20·
		Mankur ...	0 92	.....	0·65	0·09	0 16	.....	0·72	5	2·54	8·80	?	29·93	
	Bankoora ...	Bankoora ...	4·25	0·85	0·66	0·57	.....	0·95	.....	5	7·28	13·80	9 17	30·66	20·
		Bishenpore ...	0·73	0·84	0·13	0·66	0·08	0·87	.....	6	2 71	6·55	8·83	28·57	21·
		Maliara ...	0·85	0·20	1·29	0·03	0·29	0·35	.....	6	3·01	12·98	9·67	30·42	20·
		Khatra ...	0·48	... ..	0·95	1 23	0·32	1·78	... ..	5	4·76	7··3	11·26	19 99	24·
		Indas ...	0·57	0·38	0·20	0·08	0·86	3·14	.....	6	5·23	17 24	?	36 23	
		Kotalpore ...	0 28	0·85	0·13	... ..	1·06	0·96	.....	5	3·28	12·40	?	35·81	
		Anda ...	0·41	0·30	... ..	0·20	1·83	.....	.....	4	2·74	13·09	?	28·81	
		Gangajalghati	1·41	0·20	1·71	0·06	.....	0·23	.....	5	3·61	12·48	?	38·67	
		Raipore ...	0·06	0·16	0·45	0·12	0·15	1·25	.....	6	3·09	10·29	?	26·96	
		Sonamukhi ...	0·69	1·12	0·42	0·26	0·22	0·70	.. ...	6	3·41	14·23	?	30·94	
	Beerbhoom ...	Bh. Soory ...	2·31	0·06	1·49	0·96	0·11	0·16	0·49	7	5·58	17·31	9·38	34·78	22·
		Hetampore ...	0 06	0·79	0·80	0·06	0 40	0·51	0·52	7	3·05	16·99	11·02	29·64	24·
		Rampore Haut	2·30	1·15	.....	.....	0·25	0·65	0·75	5	4·50	12·30	7·60	31·76	19·
		Rolpore ...	1·70	.....	0·31	.....	.. ...	1·64	0·05	4	3·70	10·24	?	29·59	
		Murarai ...	.....	1·15	... ..	1·06	1·20	0·40	0·20	5	4·01	15·17	?	27·21	
	Nuddea ...	Ranaghat ..	0·42	0·06	0·30	.....	0·14	0·85	.....	5	1·77	9·22	7·84	26·67	20·
		Kishnaghur ...	1·00	... ..	0·03	0·02	0·55	0·64	.....	5	2·33	9·52	7·47	29·00	18·
		Chooadanga ...	.....	.....	0·49	0·66	.....	0·15	.....	3	1·21	7·07	7 38	20·81	21·
		Meherpore ...	0·10	.....	0·20	0·80	.....	1·05	.....	4	2 15	8 95	7·07	23·07	20·
		Kooshtea ..	0·10	.....	0·22	0·20	0·40	0·46	0·26	6	1·64	7·50	8·28	22·76	23·
	Khoolna ...	Satkhira ..	0·01	0·06	0·14	0·68	1·84	2·27	0·05	7	5·05	8·75	9·52	30·07	25·
		Bagirhat ...	.....	.....	0·29	0·19	1·78	1·07	0·21	5	3·54	8·18	11·03	34·53	28·
		Khoolna ...	0·96	.....	0·71	0 90	0·55	1·05	0·03	6	4·20	10·97	8·43	30·94	24·
		Nakipur ...	.....	.....	0·39	0·28	0·98	1·00	0·19	5	2·82	8·34	?	34·63	
		Ramphal ...	.....	.....	0·42	.....	2·56	0·52	0·17	4	3·67	11·87	?	32·92	
	Jessore ...	Narail ..	.....	.....	0·07	0·21	0·05	0·13	0·32	5	0·78	5·15	6·67	26·44	20·
		Jessore ...	.....	0·83	0·04	0 54	0·84	0·70	0·04	6	2·79	7·27	8·03	29·22	24·
		Jhenidah ...	.....	...	0·23	0·35	1·18	0·44	0·08	5	2·27	10·17	7·48	23·19	23·
		Magoorah ...	.....	0·11	0·20	0·17	0·08	0·31	0·30	6	1·17	5·92	7·84	22·02	23·
		Bongong ...	.....	0·55	0·40	0·15	1·00	0·15	.....	5	2·25	7·44	8·11	22·56	22·
	Moorshedabad	Kandi ...	0·86	0·21	0·19	.....	0·17	0·76	0·70	6	2·89	10·24	9·05	24·36	21·
		Berhampore...	0·16	0·13	0·27	0·04	0·15	2·08	1·21	7	4·04	9·46	8·22	29·76	20·
		Lalbagh ...	0·35	0·36	.....	0 69	0·34	2·06	1·80	6	5·50	14·70	7·86	27·19	19·
		Azimgunge ...	0·07	0·45	0·50	0·30	.....	1·90	1·00	6	4·22	11·11	7·75	29·14	20·
		Jungipore ...	0·09	0·58	0·35	0 65	0·42	0·72	0·38	7	3·30	8·37	8·66	21·35	20·
		Lalgola ...	.....	.....	0·50	0·92	.....	0·90	0·40	4	2·72	12·54	9·02	29·41	22·
		Jiagunge ...	0·07	0·32	0·46	0·35	0·02	1·65	0·77	7	3·64	9·81	?	26·63	
		Akhriguni ...	1·48	0·05	0·23	0·23	0·40	0·64	0 95	7	3·93	13·63	?	29·46	
		Patkabari ...	0·20	.....	.....	0·30	2·30	0·20	0·20	5	3·20	11·30	?	25·80	
East Bengal	Chittagong ...	Cox's Bazar ...	0·05	0·40	0·70	0·95	3·05	3·43	1·70	7	11·20	29·70	30·29	71·09	70·
		Chittagong ...	0·48	.....	0·05	2·40	0·27	2·97	2·33	6	8·50	29·38	15·26	47·64	40·
		Kutubdia ...	0·25	0 05									?		
		Satkanya ...	.....	.....	.....	0·37	0·60	3·00	3·00	4	6·97		?		
	Chittagong Hill Tracts	Rangamati ...	0·68	0·37	0·25	0·13	0·54	1·70	4·65	7	7·72	15·00	12·71	34·27	36·
		Rama ...	.....										10·06		34·
	Backergunge	Patuakhally ...	.....	.....	0·13	1·50	1·00	2·60	0·55	5	5·88	14·78	14·38	38·06	43·
		Perozepore ...	. ..	0·10	0·55	0·27	1·50	1·39	0·64	6	4·45	13·57	11·93	37·12	31·
		Burrisal ...	.....	0·11	0·99	1·45	1·05	1·71	0·31	6	5·02	15·84	11·90	40·31	33·
		Bhola ..	.....	0·19	0·32	2·09	1·28	1·54	0·91	6	6·53	15·29	15·27	31·39	40·

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of July 1890—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 19th July.	Sunday, 20th July.	Monday, 21st July.	Tuesday, 22nd July.	Wednesday, 23rd July.	Thursday, 24th July.	Friday, 25th July.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May.	Average rainfall from 15th May to date.
EAST BENGAL —concld.		*Gournaddi* ...	0·07	0·11	0·35	1·28	0·35	0·48	0·30	7	2·94	9·11	?	23·99	?
		Bauphal ...	.....	0·33	.....	1·53	3·16	1·90	0·16	5	7·31	15 34	?	34·86	?
	Noakholly ...	Noakholly ..	0·20	0·21	0·63	1·42	1·71	1·74	0·06	7	5·97	16 97	17·56	41·05	48·31
		Feuny ...	... ..	0·28	0·23	2·10	2·85	3·00	0 55	6	9·01	19·30	17·29	59·81	50·63
		Harishpore ...	0·25	0·10	1·75	3·90	2·50						?		?
		Ramganj ...	0·66	0·10	0·40	1·13	1·03	0·80	0·10	7	4·22	17·01	?	41·86	?
	Furreedpore	Madaripore ..	.....	.....	0·38	.... .	0·70	0·52	0·09	4	1·69	7·26	8·73	19·75	20·32
		Furreedpore..	0·25	0·54	0·65	1·27	1·02	... ..	0·26	6	3·99	7·33	8·11	19·87	25·05
		Goalundo .	.....	.....	.....	0·56	0·65	1·38	0·15	4	2·74	7·28	8·48	20·08	24·04
	Dacca ...	Munshigunge	0·10	0·19	0·09	0·70	0·80	0·44	0·27	7	2·58	11·84	11·61	30·07	31·73
		Dacca ..	0·40	0·25	0·15	0·54	0·65	0·08	0·33	7	2·40	13·24	9 71	32·76	27 38
		Narainkunge	1·01	0·11	0·12	0·29	0·81	0·49	0·18	7	3·01	13·56	11·87	36·55	29·40
		Manickgunge	0·05	0 09	0·30	0·45	0·00	2·00	0·18	7	3·13	8 80	8 48	30·20	22·10
		Joydebpore ..	0·23	0·02	0·13	0·15	1·45	0·20	1·10	7	3·28	10·42	?	33·05	?
	Hill Tipperah	Agartola ..	0·25	... ..	.....	0·35	0·57	0·98	0·45	5	2·60	10·52	8·39	33·08	27·15
	Tipperah ...	Comilla ..	0·14	0 32	0·04	0·89	1·60	1·22	0·25	7	4 46	14 19	11·40	35·19	35 07
		Chandpore ..	... ..	... .	... ..	0·60	0·50	.....	0·80	3	1·90	10·12	12·03	31·70	32·07
		Brahmunberia	0·50	0·52	0·03	0 63	0·53	0·43	0·16	7	2 80	9·78	8·57	27·97	28·89
		Ramchandra pore ...	0·08	0·08	0·05	0·70	0 90	0 48	0·72	7	3·01	19·30	?	38·74	?
		Nasirnagar...	.....	... ..	... ..	0·10	... .	0·10	0·70	3	0·90	5·80	?	22·62	?
		Daudkandi ..	.....	.....	... ..	0 71	0·93	0·52	0·29	4	2·45	4·42	?	17·16	?
		Kasba ..	.....	0·05	.....	.....	1·00	2·30	0·05	4	3·40		?		?
		Laksham ..	.....	.....	1·00	.....	3·10	2·30	.....	3	6·40	19·69	?	43·15	?
	Mymensingh...	Kishoreganje	0·18	0·38	... ..	0·29	... ..	0·33	0·44	5	1·62	8·17	9·21	34·30	33·17
		Atia (*Tangail*)	0·36	...	0·91	... .	0·39	0·67	0·31	5	2·64	8·95	7 91	31·65	24 69
		Mymensingh	0·14	0·36	0·07	0·49	0·05	0·63	0·45	7	2 18	13·19	11·31	40·89	30·27
		Jamalpore ..	0·06	.....	0·07	.....	..	1·67	0·67	4	2·47	7·73	9·29	36·14	28·54
		Netrekona ...	0·05	0·32	0·18	... ..	0 21	0·62	1·09	6	2·47	18·37	12·21	50·35	39·01
		Subornakhali)	.....	.....	.....	5·20	... .	0·40	0·40	3	6·00	10·60	?	20·34	?
		Durgapore ...	.....	.. ...	0·55	0·52	0·33	1·91	1·41	5	4·72	22 12	?	61·38	?
		Sherepore Town	.....	0·07	0·27	.....	0·97	0·70	0·16	5	2·17	5 34	?	29·02	?
		Dewanganj ..	.....	0·30	.....	.....	0·90	0·90	2·35	4	4·15	8·24	?	34 97	?
NORTH BENGAL.	Pubna ...	Pubna ...	0·20	0·21	0·03	0·37	0·71	0·33	0·15	7	2·06	7·60	7·43	21·84	21·99
		Serajgunge ..	0·05	0·08	1·40	0·34	0·18	1·02	0·20	7	3·27	7·13	8·06	25 40	23·42
	Bogra ...	Sherepore ...	0·32	.....	0·19	0·04	1·42	1·05	1·55	6	5·47	10·73	9·95	30·04	27·48
		Nowbilla ...	... ..	.....	0·31	2·02	0·20	2·10	0·15	5	4·78	8·54	8·46	26·58	25 17
		Bogra ...	0·23	... ..	0·15	0·08	0·64	1·21	0·98	6	3·88	8 64	10·59	26·48	30·23
		Panchbibi .	.....	.....	.....	0·48	0·28	0·78	1·62	4	3·16	7·08	10·09	34·11	26·18
	Rajshahye ...	Beauleah ..	2·59	0·13	0·29	1·54	0·09	1·53	0·47	7	6·65	15·52	9·37	36·03	32·14
		Nattore .	... ..	0·62	0·12	0·30	0·38	0·87	0·93	6	3·22	12·04	9·49	40 62	23·29
		Naogaon ...	0·22	.....	2·22	0·30	0·68	1·85	1·80	6	7·07	12·99	7·07	32·46	25·19
		Lalpore ...	... ..	0·35	... ..	0·15	0·55	0·55	2·18	5	3·98	8·43	?	19·84	?
		Manda ..	0·20	0·30	0·60	0·10	1·20	1·20	0·80	7	4 20	9·45	?	19·95	?
	Maldah ...	Maldah ..	.....	0·02	0·32	0·40	0·22	0·60	0·45	6	2·07	6·39	9·07	21·14	22·04
		Chanchal ...	... ..	0·39	0·11	0·81	... ..	0·02	1·10	5	2·43	7·20	9 47	19·82	25 16
		Gajol ...	.....	0·33	0·60	1·84	.....	0·90	0·80	5	4·47	12·94	?	28·47	?
		Sibganj ...	.....	0·40	0·42	0·75	0·06	1·70	0·69	6	3·48	11·93	?	30·82	?
	Dinagepore ...	Mohadebpore	0·62	0·72	1·00	0·05	1·85	1·15	0·57	7	5·96	12·40	8·52	29·33	25·39
		Churamon ..	.....	0·74	0·10	... ..	...	.....	0·27	3	3·11	11·84	8·99	32·33	23·97
		Raigunge ..	... ..	0·03	.....	0·23	0·11	2·18	0·58	5	4·03	14·06	9·01	34 42	27·75
		Dinagepore .	0·03	.....	0·08	... ..	. .	0·04	4·70	4	5·45	15 30	11·12	35·48	32·62
		Balurghat	... ..	...	.....	0·17	0·15	0·95	0·34	4	1·61	9·04	8·52	28 78	26·09
		Thakoorgaon	0·30	0·15	.....	.....	... ..	1·10	2·85	4	4·52	13·59	?	46·11	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	... ..	0·25	0·14	0·36	0·15	0·52	1·50	6	2·92	7·06	8·69	35·41	31·11
		Rungpore ...	0·05	.....	0·15	0·01	0·45	0·35	0·48	6	1·48	6 40	13·75	34·15	40·23
		Kurigram ..	.....	... ..	0·40	.....	0·04	0·31	1 61	4	2·36	8·80	10 93	43·40	42·84
		Bagdogra (*Nilphamari*)	.....	.....	0·58	0·02	0·01	1·48	1·08	5	4·10	12·30	11·46	50·30	40·42
		Ulipore ...	.....	.....	0·18	.....	.....	0·50	0·64	3	1·32	3·38	r	32·35	?
	Julpigoree ...	Julpigoree ..	4·86	1·69	0·15	0·60	0·13	0·20	0·81	7	7·84	36·71	22·48	80·88	58·54
		Alipore Doar	.....	0·60	0·08	3·38	0·08	0 60	2·35	6	7·04	30·75	?	89·41	?
		Fallacotta ...	.....	.....	0·07	0·65	0·23	0 18	1·82	5	2·95	32 20	?	78·10	?
		Debiganj ..	0·03	.....	0·42	.....	.....	0·11	1·36	4	1·92	12·16	?	51·89	?
	Cooch Behar..	*Bhagatpore (Nayrakatta).*	0·88	0·72	1·43	0·65	3·64	1·45	1·60	7	10·37	41·08	?	77·23	?
		Dinhatta ..	.....	.....	0·20	0·02	... ..	1 04	0·34	4	1·60	5 20	11·23	48 84	30·93
		Cooch Behar..	0·27	.....	.....	1·15	0·73	1·34	0·45	5	3·94	22·73	18·34	75·35	64·06
		Mickligunge..	0·41	.....	0·52	0·04	0·31	0 38	1·92	6	3·58	22·59	14·12	72·64	58·03
		Mataibhanga...	.....	.....	0·18	0·36	0·03	0·68	5·27	2·54	6	9·06	33·67	17·75	81·66
	Darjeeling Hill.	.....	0·09	0·01	0·88	0·06	1·05	0·34	4·87	7	7·30	45·96	41·61	90·35	100 51
		Buxa ..	1·73	0·14	0 24	0·50	1·07	1·01	3·01	7	7·70	48·87	23·19	87·75	50 30
		Silliguri ..	1·50	1·19	0·90	0 42	3·10	1·01	1·90	7	10·22	38·08	24·17	73·45	52·08
		Darjeeling ...	0·88	1·12	1·35	0 58	4·54	0·61	2·00	7	11·08	40·71	19·46	62·07	39 07
		Kalimpong .	3·70	0·86	0·42	0·83	4·43	0·95	2 55	7	13·73	55·29	?	102·86	?
		Kurseong ...													
NORTH BEHAR.	Purneah ...	Kisengunge...	0·79	0·50	.....	0·20	0·35	0·33	0·76	6	2·93	17·49	13 71	43·85	33·14
		Arrarsah ..	1·16	0·48	.....	0·21	0·52	1·45	0·36	6	4·16	20·56	12·89	37·09	29 06
		Purneah ..	.....	0·45	0·08	0·41	0·13	1·16	0·89	6	3·12	15 36	10·61	38·43	25·15
		Gondwara ...	0·82	.....	1·00	0·40	.....	2·26	.....	4	4·48	10·34	?	19·22	?
		Balarumpore	0·20	.....	0·18	0·30	0·18	2·00	2·70	6	6·26	18·10	?	36·15	?
		Matiari ...	...	.....	.....	2·50	.....	.....	1·05	2	3·55	11·64	?	26 27	?
		Kaliaganj ...	1·35	0·37	0·13	0·97	0·21	0·31	2·90	7	5·04	18·92	?	50·00	?
	North Bhagulpore	Maddapore ..	... ..	... ..	.....	... ..	0 48	0·60	4·25	3	5 33	17·35	9·05	33·76	20·09
		Soopool ...	0·44	0·46	.....	0·81	0·20	0·23	3·18	6	5·32	14·78	8·17	24·57	19·74
		Protabganj...	0·86	.....	0 58	0 28	1·80	1·25	0·37	6	5·03	14·07	?	25·54	?
	Durbhunga ...	Tajpore ...	1·03	.....	0·02	0·02	1·04	0·85	2·04	6	5·00	15·51	9·51	24·95	18·18
		Durbhunga ...	1·69	.....	.....	0·31	0·33	.....	2·41	4	4·74	16·77	9 31	29·52	18·51
		Madhubani ...	1 41	.....	.....	.....	.....	0·32	3·15	3	4·88	14·12	8·49	28·41	18·76
		Hahera ...	0·22	.....	0·12	0·30	0·20	0·16	2·46	6	3·46	11·32	?	26·06	?
		Rosbera ...	.....	0·12	.....	1·95	1·65	1·75	0·30	5	5·77	11·22	?	21·82	?
	Mozufferpore	Sitamarhi ...	1·18	.....	.....	... ..	0·37	0·07	2·02	4	3·64	11·67	8·81	21·83	18·30
		Mozufferpore	1·44	.....	.....	0·09	2·07	0·22	4·00	5	7·82	16·85	9·29	26·85	18·25
		Hajipore ...	0·85	.....	.....	0	0·12	0·41	0·42	4	1·81	11·91	9·04	22·15	16·97
		Pare ...	0·95	... ...	.....	... ...	0·60	0·80	2·35	4	4 80	13·90	?	25·17	?
		Mahua ...	.....	0·17	... ..	.....	.....	0·67	0·76	3	1·60	11·84	?	23·50	?
		Sishar ...	0·98	.....	.....	.....	... ..	.....	2·50	2	3·48	10·76	?	23·56	?
		Pupri ...	2·70	.....	.....	.....	0·40	.....	1·60	3	4·70	13·60	?	20·10	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of July 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 19th July.	Sunday, 20th July.	Monday, 21st July.	Tuesday, 22nd July.	Wednesday, 23rd July.	Thursday, 24th July.	Friday, 25th July.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
NORTH BEHAR —*concluded.*	Chumparun...	Motihari ...	0·90	.....	0·08	.....	... ..	.....	2·86	3	3·84	14·88	8·08	32·84	17·94
		Bettiah ...	1·80	.....	0·24	0·03	0·29	0·32	3·53	6	6·21	15·56	10·32	30·29	20·05
		Bagaha ...	0·52	.....	.....	0·02	0·16	1·02	0·21	5	1·93	15·42	?	32·70	?
		Barhurwa ...	0·31	.....	.....	.....	0·58	0·10	2 32	4	3·37	8·42	?	24·30	?
	Sarun ...	Gopalgunge ...	0·15	.....	.....	... ..	0·40	.....	1·74	3	2·29	6·40	9·26	16·75	16·94
		Sewan ...	0·41	0·29	.....	0·51	1·81	0·40	1·51	6	4·01	11·42	8·84	25·82	16·82
		Chuprah ...	0·30	0·42	0·13	0·03	0·08	0·40	1·55	7	3·76	9·65	9·16	21·70	16·16
SOUTH BEHAR	Shahabad	Buxar ...	0·84	0·08	0·03	... ...	1·30	0·90	0·15	6	3·30	12·58	8·17	23·41	13·77
		Dehree ..	2·90	0·04	... ..	1·70	0·40	1·50	0·91	7	7·45	10·31	8·25	20·63	13·23
		Bhaboosh ...	0·40	... ...	0·30	1·40	0·80	0·40	0·15	6	3·45	10·30	9 37	20·06	15·23
		Sasseram ...	3·32	0·15	.	0·75	1·10	1·80	0·25	6	7·07	11·36	8·00	21·58	13·84
		Arrah ...	0·48	7·10	0·06	... ..	0 05	4·50	2·35	6	14·54	25·37	8·15	38·75	15·27
		Mohanah ...	.....	... ..	.....	2·00	1·10	.....	.....	2	3·10	8·01	?	15·01	?
	Gya ..	Aurungabad...	1·41	.....	... .	0·53	1·00	1·27	0·05	5	4·26	11·73	8·73	21·79	15·85
		Gya ...	0 17	... ..	0·11	0·06	2·08	1·04	1·08	6	5·44	17 08	8·59	29·14	16·16
		Nowadah ...	0·42	0·12	0·05	1·13	0·31	0·21	.....	6	2·24	13·82	8·04	31·52	15·99
		Jehanabad ...	0·90	0·15	1·68	.....	1·11	1·41	0·82	6	6·07	14·35	8·66	31·76	15·06
		Arwal ...	.... .	3·30	.....	...	.....	.....	2·50	2	5·80	... ..	?	.....	?
		Daudnagar ...	0·10	.....	0·80	0·50	0·25	0·85	0·10	6	2·50	7·88	?	11·89	?
		Sherrghati ...	1·32	.....	.....	.....	0·35	... .	0·35	3	2·02	6·94	?	13·93	?
		Rajauli ..	1·65	0·78	0·65	0·23	0·27	1·40	0·30	7	5·28	10·84	?	23 88	?
		PakriBarawan	0·25	0·70	0·15	... ..	.....	0·80	0·30	5	2·20	10·25	?	29·73	?
	Patna ...	Patna ...	0·62	0·60	... ..	.....	0·35	0·57	0·08	5	2·22	9·08	8·01	19·25	17·08
		Dinapore ...	0·83	0·25	0·09	0·23	0·38	1·10	0·70	7	3·40	9·33	8·73	18·81	16·49
		Behar ...	0·74	0·11	0·16	.....	0·96	1·03	0·60	6	3·61	9·51	8·52	21·82	16·46
		Barrh ...	.....	.. ..	... .	0·50	0·30	0·80	0·60	4	2·20	7·29	9·03	15·24	15·54
		Bekram ...	0·04	0·91	0·30	.....	1·05	3·11	0·35	6	6·99	19·77	?	33·67	?
		Hilsa ...	0·56	0·50	0·43	.....	0·19	0 79	0·22	6	2·74	11·02	?	27·09	?
	Monghyr ...	Begoosarai ...	0·12	0·02	0·12	0·05	0·13	1·23	2·46	7	4·13	7·42	7·87	18·94	15·58
		Monghyr ...	0·53	... .	....	0·00	0·15	2 00	0 52	5	3·20	10·33	8 66	27·58	16·89
		Jamui ...	0·75	0·32	0·64	0·10	1·26	0·58	1·50	7	5·13	15·81	9 08	33·42	17·57
		Gogri ...	... ..	.....	.....	.....	2·43	0 66	2·49	3	5·58	16·42	?	31·47	?
		Sheikpura ...	1·50	.....	.....	.....	.....	0·63	.....	2	2·13	6·13	?	21·32	?
	South Bhagulpore	Bhagulpore ...	1 13	.....	0·09	0·03	1·59	0·20	0·90	6	3·94	12·46	7·84	25·69	17·19
		Banka ..	1·57	0·11	0·55	1·50	0·76	0·59	0·07	7	5·75	8·92	7·98	21·49	17·67
		Kalgong ...	0·12	0·70	... ..	0·10	0·30	.....	0·40	5	1·62	16·85	?	33·68	?
		Bangaon ...	.....	.....	.....	.....	.....	2·06	4·12	2	6·18	13·32	?	25·81	?
	Sonthal Pergunnahs.	Rajmehal ...	... ..	0·43	0·14	0·53	.....	0·29	0·18	5	1·57	7·33	9·96	23·32	23·32
		Godda ...	0·95	... ..	0·8	1·70	0·80	0·20	0·65	6	4·60	13·45	7·93	27·41	17·15
		Pakour ...	0·13	0 09	0·08	0·07	0·04	1·36	0·23	7	2·00	10·73	9·97	36·78	23·51
		Nya Doomka ...	0·20	0·15	0·45	0 86	0·24	0·07	2·08	7	4·04	14·95	9·47	31·50	21·59
		Deognur ...	1 92	0·00	0·13	1·42	0·06	0·19	0·53	7	4·34	10·82	9·96	23·38	20 33
		Jamtara ...	0·45	0·37	0·65	1·72	.....	1·99	0 72	6	5·90	13·17	9·77	35·57	20·33
		Mohasama ...											?		?
		Nanihat ...	.....	.....	.....	1·65	0·24	0·83	0·12	4	2·84	7·80	?	15·12	?
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba ... (*Giridi*).	0·19	0 09	0·22	1·69	1·00	0·70	0·42	7	4·31	11·91	9·09	31·49	18·84
		Hazaribagh ...	0·27	0·13	0·07	1·06	3·39	2·22	0·25	7	7·99	17·40	9·77	27·18	18·43
		Semtagurah	0 44	.....	1·40	0·52	0·50	0·54	0·44	6	3·99	11·47	9·93	20·19	19·01
		Mahudi Hills											9·68		18·79
		Jhoomra Hills	0 70	0·49	0·80	0·30	1·10	2·70	0·90	7	6·99	14·70	12·78	29·00	24·30
		Barhi ...	0·25	0·22	0·05	1·70	2·10	0·20	1·03	7	5·55	14·08	?	32·79	?
		Chutra ...	.....	0·35	0·46	1·50	0·40	2·55	0·08	6	5·34	18·09	?	31·10	?
		Karagdeha ...	0·30	0·37	1·19	0·54	0·69	1·74	2·15	7	6·98	13·55	?	31·15	?
		Ramghar ...	.....	0·80	0·40	0 75	.....	.....	2·10	4	4·05	9·25	?	19·84	?
	Lohardugga ...	Lohardugga ...	0·75	0·36	0·15	1·31	2·35	0·89	0·09	7	5·80	11·73	9·39	20·28	19·27
		Ranchi ...	0·27	0·20	0·80	1·21	0·72	0·42	.....	6	3·62	6·76	10·60	17·12	21·28
		Palamow ..	4·46	0·49	0·67	4·34	0·17	0·06	.....	6	10·19	14·65	9·04	23·40	16·12
		Silli ...	1·00	0·40	.....	1·00							?		?
		Ratu nat ...											?		?
		Hosseinabad..	0·85	.....	... ..	1·82	.....	3·85	0·22	4	6·74	9·98	?	17·60	?
		Garwah ...	0·30	0·20	1 25	0·58	0 96						?		?
	Singbhoom ..	Chyebassa ...	0·85	0·16	0·35	.....	0·16	0·30	0·06	6	1·88	7·04	10·89	19·17	21·78
		Chakradharpore.											?		?
		Ghatsilla ...	.....	2·60	.....	0·78	1·32	.....	0·04	4	4·74	12·59	?	27·13	?
		Baharagora...	.....	1·96	1·81	.....	.....	3 15					?		?
	Manbhoom ...	Purulia ...	0·16	0·01	0·68	0·49	0·16	0·37	.....	6	1·89	9·19	9·20	24·50	19·97
		Gobindpore ...	0·16	0 46	0·17	1·35	0·04	0·02	0·91	7	3·91	7·61	8·94	19·72	17·79
		Raghunathpore.	2·45	1·02	1 07	0·35	0·08	1·67	0·40	7	7·04	15·16	?	31·61	?
		Barrabhoom	0·25	0·10	0·10	2·30	0·15	0·9	.....	6	3·85	12·20	?	24·79	?
		Jhalda ...	0·87	.....	1·30	1·25	.....	2·79	0·70	5	6·91	12·27	?	24·22	?
		Chas ...	0·20	0·02	1·25	0 68	1·18	0·28	.....	6	3·07	6·87	?	22·71	?

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 29th July* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 25TH OF JULY 1890.

WEATHER conditions during the past week seem to have been influenced by a very shallow depression which, forming at the beginning of the week in the north-west corner of the Bay, moved slowly towards the mouth of the Hooghly, and without being immediately followed by either stormy weather or heavy rain, passed over part of South-West Bengal and Chutia Nagpur. On Friday the 19th, pressure was lowest at False Point after a very slow fall of a thirtieth of an inch, but the formation of the depression was accelerated by a gradually increasing rise of pressure towards the north-west, where it exceeded a twentieth of an inch. Winds had a tendency to take cyclonic directions, but were everywhere feeble in force. Temperature was rising rather rapidly over the eastern half of the province, and falling moderately elsewhere, the rainfall having become much more scattered in East and North Bengal than it had been for some days In Orissa, Chutia Nagpur, and Behar general rain was falling, and amounts were considerable at many of the stations in the last. On the 20th the slow and rather local fall of pressure continued in the north-west corner of the Bay and adjoining districts, the depression intensifying slightly and the centre appearing to be about south of Saugor Island, where pressure was lowest and about ·15 inch below the normal. The wind circulation was cyclonic in Orissa, South-West Bengal, and Chutia Nagpur, but in the other districts the usual easterly or south-easterly directions prevailed, and though there was a considerable increase of velocity from that of the previous day, it still remained below the average. Heavier rain was falling in Orissa, but in the other districts falls were lighter and less general, especially in North Behar and North Bengal, where possibly, owing to the indraught to the low-pressure area, rainfall to a large extent ceased. On the 21st the depression had advanced as far as Bankoora, pressure falling briskly at a few stations in that neighbourhood and slowly over the rest of the province. There was no further increase of intensity, and it was evidently beginning to fill up, the area within which defect was more than a tenth of an inch including the greater part of South-West Bengal and Orissa and the eastern half of Chutia Nagpur, and the largest defect being only ·13 inch at Midnapore. Wind velocity increased to rather more than 20 miles an hour in the north-west corner of the Bay, so that weather was never stormy to the rear of the depression, vessels arriving from the Bay reporting only fresh or strong breezes with rain squalls and rough sea. Rainfall diminished in Orissa and became more general and heavy in South-West Bengal and Chutia Nagpur, while general light rain was received in the other districts. On the 22nd the depression had left the province, and pressure was lowest in South Behar; but as pressure was rising very slowly in the southern districts, a diffused shallow low-pressure area covered the whole of the western half of the province Ordinary monsoon weather prevailed, light rain falling at almost all stations, and very few heavy falls occurring; but in South Behar and the north of Chutia Nagpur falls were nearly all between 1 and 2 inches. On the 23rd a brisk rise of pressure set in, continuing on the 24th, and general heavy rain fell in all districts except Orissa. Easterly winds continued in the northern districts till the 24th, but on this day westerly winds were blowing in South Behar and the southern districts, and on the last day of the week over the whole province. It would appear that after the filling up of the depression on the 23rd and 24th the inrush of westerly winds, interfering with the moist current following the depression from the Bay, has caused the much more generally heavy rain than fell about the middle of the week immediately after the passage of the depression.

Pressure—Changes have generally been small, never exceeding a tenth of an inch, and only on one or two days exceeding a twentieth of an inch; these occurring near the depression while passing over the province, and during the brisk rise on the 23rd and 24th. Defect was over a tenth of an inch in the western districts in the early part of the week, and as there was very little change till the 23rd, means for the week are generally considerably below the normal. In Orissa, South-West Bengal, Chutia Nagpur, and Behar, mean defect is over a twentieth of an inch, while in the eastern half of Bengal and Assam it is about four-hundredths of an inch.

Temperature—Owing to the almost continuous rain, has been everywhere below the nomal, defect in Behar being nearly 2°, in Chutia Nagpur 1·4°, Assam 1·3°, North Bengal 1·1°, South-West and East Bengal ·7°, and Orissa ·5°. On the first day of the week it fell rapidly in Behar and slowly over the western half, while it rose moderately in the eastern half of the province. On Sunday there was an almost general rise followed by slight irregular changes till Thursday the 24th, when a general fall set in and continued till the end of the week.

Rainfall—Though generally light or moderate, almost continuous rain has fallen in all districts, the number of rainy days being one and in Behar and Chutia Nagpur two above the average. The mean falls are consequently everywhere above the normal; the greatest difference occurring in Behar and Chutia Nagpur, where falls are double the normal. In Chutia Nagpur the average fall is 5·2 inches, or 2·4 inches above the normal; in South Behar 4·6 inches, excess being 2·3 inches; in North Behar 4·36 inches, excess 2 inches. The other falls are—East Bengal 4·2, North Bengal 4, Orissa 3·4, and South-West Bengal 2·5 inches, excess varying from half an inch in the last two to 1·4 inches in North Bengal.

Actual falls generally lie between 2 and 5 inches over the greater part of the province, but detached areas occur within which they are usually over 5 inches. These are—Chittagong, Backergunge, and Noakholly in East Bengal, the heaviest falls being 11 inches at Cox's Bazar, 8·5 inches at Fenny, and about 7·5 inches at Rangamati and Bauphal; Julpigoree and the Darjeeling Hills in North Bengal, Bhagatpore, Darjeeling, Kalimpong, and Kurseong reporting more than 10 and several others more than 7 inches; North Bhagulpore in North Behar, and Hazaribagh, Lohardugga, and Manbhoom in Chutia Nagpur. The heaviest falls in Behar and Chutia Nagpur are—Mozufferpore 7·8, Dehree 7·5, Sasseram 7·7, Arrah 14·5, Bickram 7, Hazaribagh 8, Karagdeha 7, Palamow 10·2, Raghunathpore and Jhalda 7 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 25th of July 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	93·7	73·6	87·0	78·6	82·8	−0·5	3·45	2·91	+0·54	5·1	4·0	+1·1	10·67	9·93	24·95	20·80
South-West Bengal ...	93·3	75·6	88·3	78·4	83·4	−0·7	2·92	2·49	+0·43	5·4	4·5	+0·9	8·66	8·97	26·99	21·84
East Bengal	88·9	73·0	86·2	77·1	81·7	−0·7	4·20	3·28	+0·92	6·0	5·5	+0·5	13·52	12·17	36·10	34·80
North Bengal	91·3	75·1	88·2	78·2	83·2	−1·1	4·04	2·62	+1·42	5·5	4·4	+1·1	12·80	11·12	39·94	34·18
North Behar	91·4	75·5	88·3	78·5	83·4	−1·8	4·36	2·29	+2·07	4·9	3·4	+1·5	14·40	9·70	25·67	20·28
South Behar	91·4	71·7	87·4	78·3	82·9	−1·7	4·63	2·35	+2·28	6·1	4·1	+2·0	12·07	8·73	25·94	17·08
Chutia Nagpur	84·9*	70·9*	82·0*	72·3*	77·2*	−1·4*	5·22	2·78	+2·44	6·6	5·0	+1·6	11·14	9·98	22·26	19·60
Assam	93·5	75·3	88·3	77·1	82·7	−1·3										

* Chyobassa not included.

Meteorological Office, Bengal;
The 29th July 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 20th to 26th July 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
July 1890...	20th ...	29·523	84·4	89·0	9·2	79·8	83·6	80·3	·991	79·0	86	0·04
,, ,, ...	21st ...	·472	84·2	89·0	9·7	79·3	84·6	81·3	1·025	80·0	86	0·74
,, ,, ...	22nd ...	·482	84·4	90·0	11·2	78·8	84·6	81·5	1·035	80·3	87	0·30
,, ,, ...	23rd ...	·513	81·4	84·9	7·1	77·8	81·6	80·5	1·028	80·1	95	1·56
,, ,, ...	24th ...	·593	81·9	86·0	8·2	77·8	80·4	78·6	·951	77·7	91	0·24
,, ,, ...	25th ...	·601	83·5	89·0	11·0	78·0	83·4	79·7	·965	78·2	84	0·01
,, ,, ...	26th ...	·569	84·3	88·9	9·3	79·6	85·1	81·5	1·028	80·1	85	...

	Inches.
The mean 10 A.M. pressure of the seven days	29·536
	°
The mean temperature of the seven days	83·4
The extreme variation of temperature	12·2
The maximum temperature	90·0
	%
The mean 10 A.M. relative humidity of the seven days	88
	Inches.
The total fall of rain from 20th to 26th July 1890	2·89

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India;
The 28th July 1890.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of April 1890.

[THE delay in the publication of this review is due to the non-receipt of the Gya district return, which was not received in this office till the 23rd instant, or nearly *three* months after the month to which it relates.]

The deaths registered in forty-five districts of Bengal during the month of April 1890 were 138,245, and correspond to an annual rate of 25·08 per 1,000 of the aggregate population of those districts, which is 65,859,534. The rate is 1·56 higher than the mean rate of corresponding periods of the five years 1885—89, and is also higher than the rate of the corresponding periods of any of the past five years except 1889, *vide* the figures below—

	April 1885.	April 1886.	April 1887.	April 1888.	April 1889.	Monthly average of five years, 1885—89.	April 1890
Ratio of deaths per 1,000 of the population per annum	21·36	20·88	22·80	23·76	28·56	23·52	25·08

The following table shows the highest proportions of deaths registered during the month of April 1890, compared with the corresponding month of 1889 :—

Districts.	Ratio per *mille* during— April 1890.	April 1889.	*Districts.*	Ratio per *mille* during— April 1890.	April 1889.
Darjiling ...	49·56	44·16	Hughli ...	28·44	23·16
Bhagulpore ...	45·36	33·96	Pubna ...	27·72	29·52
Julpaiguri ...	41·52	44·52	Backerganj ...	27·72	42·12
Noakhali ...	32·64	41·88	Shahabad ...	27·48	20·16
Rajshahye ...	32·04	36·72	Serampore ...	27·24	21·60
Maldah ...	31·08	38·04	Birbhum ...	26·88	30 48
Hazaribagh ...	30·24	24·72	Patna ..	26·88	18 60
Jessore ...	29·88	28·68	Gya ...	26·88	20·16
Purneah ...	29·76	98·04	Bogra ...	26·52	28·08
Durbhanga ...	29·64	15·24	Howrah ...	25·80	20·40
Monghyr ...	29·16	23·76	Faridpore ...	25·80	37·68
Rungpore ...	28·56	25·44	Dinajpur ...	25 56	33·60

The total mortality during the month under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89 :—

	Ratio per *mille* during— April 1890.	April 1889.	Monthly average of five years 1885—89.
Cholera	3·00	6·00	3·84
Small-pox	·36	·24	·12
Fever	17·64	17·64	15·24
Bowel-complaints	·60	·72	·72
Injury	·24	·24	·24
Other causes	3·00	3·48	2 88

The highest annual death-rates from the several registered death-causes occurred in the following districts :—

Cholera.	Ratio per *mille.*	*Small-pox.*	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes*	Ratio per *mille.*
Bhagulpore ...	21·84	Chumparun ...	2·40	Julpaiguri ...	38·76	Poori ...	12·24
Durbhanga ...	8·88	Patna ...	2·16	Darjiling ...	36·12		
Purneah ...	8·88	Poori ...	2·16	Rajshahye ...	28·92		
Faridpore ...	6·84			Noakhali ...	27·24		
Maldah ...	6·84			Hazaribagh ...	26·28		
Monghyr ...	6·00			Pubna ...	24·96		
Chumparun ...	5·16			Shahabad ...	24·24		
Jessore ...	4·44			Rungpore ...	23·88		
Backerganj ...	3·96			Gya ...	23·88		
Tipperah ...	3·72			Jessore ...	23·28		
Mymensing ...	3·24			Dinajpur ...	22·92		
Khulna ...	3·12			Bogra ...	22·68		
Dacca ...	3·00			Maldah ...	22·32		
Rungpore ...	2·76			Purneah ...	20·28		
Howrah ...	2·68						
Hughli ...	2·64						
Murshedabad ...	2·28						
Noakhali ...	2·16						
Patna ...	2·04						

The mortality of the month under review, according to *Sex*, *Class* and *Age*, was distributed as follows :—

According to Sex.	Ratio per *mille.*
Males	27·84
Females... ...	22·44
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ...	124

According to Class.	Ratio per *mille.*
Christians ...	11·40
Hindus ...	25·32
Mahomedans ...	25·20
Buddhists ...	15·96
Other classes ...	20·16

According to Age.	Ratio per *mille.*
Under 1 year	160·80
1 and under 5 years ...	28·08
5 „ 10 „ ...	13·68
10 „ 15 „ ...	12·12
15 „ 20 „ ...	16·68
20 „ 30 „ ...	16·68
30 „ 40 „ ...	18·96
40 „ 50 „ ...	24·96
50 „ 60 „ ...	36·00
60 years and upwards ...	57·36

Detailed information regarding the mortuary statistics of the forty-five districts of Bengal during the month under review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 24th July 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of April 1890.

1	2	3			4							5							6		7		8		9
		POPULATION.			MORTALITY ACCORDING TO—																				
					Disease.																		Sex.		
					DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.							COMPARISON WITH PREVIOUS PERIODS.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM		
DIVISIONS.	DISTRICTS.	Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
BURDWAN ...	Burdwan	668,295	723,528	1,391,823	108	24	2,074	49	43	526	2,824	·84	·12	17·88	·36	·36	4·44	24·24	23·04	28·64	1,471	1,353	26·40	22·44	117
	Bankura	507,136	534,616	1,041,752	29	32	1,295	46	30	372	1,804	·24	·36	14·88	·48	·24	4·20	20·76	17·64	27·84	1,009	804	23·64	18·00	131
	Birbhum	381,563	412,865	794,428	64	4	1,253	9	7	501	1,820	·96	·06	16·56	·84	·24	2·88	22·03	25·42	25·08	2,495	2,269	24·00	21·36	112
	Midnapore	1,243,195	1,272,370	2,515,565	199	209	3,496	183	54	623	4,764	·84	·96	16·56	·84	·24	2·88	22·03	25·42	25·08	2,495	2,269	24·00	21·36	112
	Hughli	315,666	347,385	663,050	149	26	1,065	98	13	222	1,573	2·64	·36	19·20	1·68	·12	3·96	28·44	24·28	22·16	863	710	32·76	24·48	133
	Serampore	174,386	177,589	351,975	25	12	561	72	30	109	799	·84	·36	19·68	2·40	·60	3·72	27·24	23·40	21·60	441	358	30·24	24·12	125
	Total (Hughli including Serampore).	490,031	524,974	1,015,005	174	38	1,626	170	33	331	2,372	2·04	·36	19·20	1·92	·36	3·84	27·96	27·24	22·68	1,304	1,068	31·92	24·36	131
	Howrah	316,479	318,902	635,381	91	68	740	181	29	261	1,370	2·68	1·20	13·04	3·48	·48	4·92	25·80	26·16	20·40	766	604	29·04	23·68	128
PRESIDENCY ...	24-Pergunnahs	860,841	812,521	1,673,362	222	55	2,062	73	64	223	2,699	1·56	·36	14·76	·48	·36	1·56	19·32	24·84	17·76	1,481	1,219	30·64	17·88	115
	Nuddea	805,779	849,942	1,655,721	82	26	2,054	24	49	355	2,590	·48	·12	14·88	·12	·24	2·52	18·72	17·76	30·24	1,547	1,043	28·04	14·64	157
	Jessore	969,271	980,104	1,939,375	730	12	3,778	14	62	237	4,833	4·44	·07	23·28	·08	·36	1·44	29·88	24·72	28·58	2,641	2,192	33·00	26·76	123
	Murshidabad	856,483	840,307	1,226,790	257	21	1,828	18	31	253	2,387	2·28	·12	17·88	·12	·24	2·40	23·28	22·80	24·44	1,300	1,087	26·52	20·28	131
	Khulna	568,402	511,546	1,079,948	284	3	1,517	23	38	292	2,157	3·12	·02	16·80	·24	·36	3·24	23·88	22·32	24·44	1,188	969	25·08	22·68	110
	Dinajpur	782,292	732,054	1,514,346	102	7	2,897	8	15	209	3,238	·72	·04	22·92	·96	·10	1·56	25·56	32·76	31·60	1,362	1,376	29·50	22·44	127
	Rajshahye	660,710	678,893	1,339,603	141	1	3,250	7	35	173	3,597	1·20	·008	28·92	·06	·24	1·44	32·04	24·04	36·72	1,945	1,642	35·28	28·92	121
RAJSHAHYE ...	Rungpore	1,067,701	1,030,263	2,097,964	498	2	4,152	23	26	244	4,995	2·76	·008	23·88	·12	·12	1·44	28·53	28·93	25·44	2,789	2,206	31·32	25·68	121
	Bogra	372,193	361,200	733,393	3	2	1,387	6	21	207	1,626	·04	·02	22·68	·09	·24	3·36	26·51	23·52	24·09	922	704	29·64	23·28	127
	Pubna	648,311	663,417	1,311,728	181	...	2,739	15	22	84	3,041	1·54	...	24·96	·12	·12	·72	27·72	20·52	29·52	1,701	1,340	31·44	24·12	130
	Darjiling	89,331	66,294	155,645	1	1	470	57	7	108	644	·07	·07	38·16	4·32	·48	8·28	49·56	41·64	44·16	371	273	49·80	49·32	100
	Julpaiguri	305,972	276,418	582,390	32	4	1,882	26	15	59	2,018	·60	·04	38·76	·48	·24	1·20	41·52	37·32	44·52	1,187	851	45·72	36·48	134
	Dacca	1,033,862	1,082,487	2,116,350	546	23	2,020	121	65	602	3,377	3·00	·12	11·40	·60	·36	3·36	19·03	18·92	33·36	1,911	1,466	21·08	16·20	136
DACCA	Faridpore	805,989	825,745	1,631,734	939	14	2,110	49	58	363	3,524	6·84	·09	15·48	·24	·36	2·64	25·80	21·72	37·68	1,942	1,581	23·80	22·92	126
	Backerganj	973,479	927,410	1,900,889	629	12	2,491	61	110	1,115	4,408	3·96	·07	15·60	·36	·60	6·96	27·72	32·64	42·12	2,434	1,975	23·88	25·44	117
	Mymensing	1,556,840	1,501,103	3,056,943	855	85	3,587	73	74	535	5,209	3·24	·24	14·04	·24	·24	2·04	20·40	18·48	23·04	2,957	2,253	23·80	19·00	126
CHITTAGONG ...	Chittagong	531,849	600,692	1,133,341	105	...	1,264	84	46	229	1,728	1·68	...	13·32	·84	·48	2·40	18·24	18·72	19·80	980	784	21·60	15·24	141
	Noakhali	415,248	405,524	820,772	148	...	1,865	19	39	162	2,233	2·16	...	27·24	·24	·48	2·28	32·64	36·24	41·88	1,194	1,049	34·20	30·96	110
	Tipperah	768,450	745,911	1,514,361	476	7	1,728	78	55	302	2,647	3·72	·04	13·68	·60	·36	2·28	20·88	24·72	30·12	1,410	1,237	21·84	13·80	110
	Patna	856,501	895,058	1,751,559	314	321	2,590	150	54	506	3,935	2·04	2·16	17·64	·96	·36	3·36	26·88	18·36	18·60	2,073	1,852	29·04	24·96	116
	Gya	1,043,441	1,081,241	2,124,682	47	139	4,243	19	69	263	4,781	·24	·72	24·36	·60	·36	1·44	26·88	18·48	20·16	2,574	2,206	29·52	24·48	120
PATNA	Shahabad	960,250	1,014,659	1,964,909	22	75	3,987	24	54	344	4,505	·12	·36	24·24	·12	·24	2·04	27·48	17·88	20·16	2,529	1,976	31·92	23·28	137
	Mozufferpore	1,365,731	1,316,329	2,682,060	87	208	3,225	147	58	374	4,099	·36	·96	14·88	·48	·24	1·68	18·96	21·24	12·84	2,250	1,549	21·36	16·68	128
	Durbhanga	1,295,788	1,337,659	2,633,447	1,957	113	3,944	121	36	347	6,519	8·88	·48	17·88	·48	·12	1·56	29·04	25·92	15·24	3,572	2,948	33·00	26·40	125
	Sarun	1,085,847	1,199,832	2,285,679	150	174	1,740	310	60	1,122	3,496	·72	·84	11·40	·12	·24	2·88	22·32	20·64	17·04	1,977	1,519	21·84	15·12	144
	Chumparun	870,627	850,951	1,721,608	742	348	1,647	22	44	417	3,220	5·16	2·40	19·80	·60	·36	2·04	29·16	22·20	23·76	1,747	1,493	24·00	20·52	116
	Monghyr	969,124	1,000,650	1,969,774	1,000	14	3,261	111	63	318	4,757	6·00	·08	15·84	·36	·12	3·84	45·36	35·88	33·96	3,923	3,508	48·00	42·61	112
BHAGULPORE ...	Bhagulpore	979,119	987,039	1,966,158	3,585	8	3,100	61	36	643	7,433	21·84	·04	20·29	·09	·10	·24	23·76	23·28	28·14	2,614	1,989	33·36	26·04	128
	Purneah	937,080	911,607	1,848,687	1,373	6	3,138	16	18	51	4,602	8·88	·03	22·32	·06	·12	1·56	31·98	20·52	38·04	1,052	791	34·56	26·04	139
	Maldah	346,998	363,450	710,448	409	...	1,337	4	8	95	1,853	6·84	...	13·32	·12	·12	1·50	16·20	14·64	19·20	1,185	938	18·12	14·28	127
	Sonthal Pergunnahs...	785,330	782,763	1,568,093	77	12	1,749	29	19	240	2,126	·48	·08	10·21	1·56	·60	5·04	19·80	30·36	25·80	1,578	1,342	21·48	18·12	118
ORISSA	Cuttack	877,702	917,363	1,795,065	252	86	1,537	243	95	756	2,970	1·68	·48	5·64	2·16	·48	12·24	24·60	37·44	43·32	1,012	817	27·12	22·09	122
	Poori	446,609	441,873	888,487	131	161	421	165	41	910	1,829	1·68	2·16	19·05	4·20	·36	6·00	21·36	23·76	45·84	870	821	28·56	20·28	111
	Balasore	461,467	483,819	945,286	42	13	796	332	34	474	1,691	·48	·12	26·28	·48	·48	2·88	30·24	29·64	24·72	1,510	1,277	33·24	27·36	121
CHOTA NAGPORE.	Hazaribagh	544,903	559,839	1,104,742	3	...	2,422	46	50	266	2,787	·03	...	15·00	·96	·12	4·68	21·00	16·56	21·84	1,553	1,242	23·76	19·24	130
	Lohardugga	796,657	812,587	1,609,244	...	14	2,021	137	18	645	2,825	...	·09	15·36	1·44	·24	3·96	21·36	2·16	22·04	461	349	24·35	19·36	132
	Singbhum	226,681	227,094	453,775	3	4	583	55	13	158	810	·07	·09	17·76	·72	·24	4·08	23·76	20·28	25 44	1,155	949	26·25	21·36	123
	Manbhum	525,328	532,900	1,058,228	17	64	1,567	64	22	370	2,104	·13	·72												
	TOTAL FOR THE PROVINCE.	32,663,706	33,195,834	65,859,534	17,039	2,410	96,573	3,335	1,920	16,688	138,245	3·00	·36	17·64	·60	·24	3·00	25 08	23·16	29·56	75,837	62,348	27·84	22·44	124

10					11					12										13									
DIVISIONS.	DISTRICTS.	MORTALITY ACCORDING TO— Class. Deaths among—					Ratio per 1,000 of population per annum.					Deaths. Age.										Ratio per 1,000 of population per annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
BURDWAN	Burdwan	3	2,336	486	...	...	26·28	24·96	22·08	...	.....	528	202	144	104	179	285	362	317	251	352	201·24	19·36	10·32	9·24	17·52	18·00	19·56	24·84	31·08	53·04
	Bankura	...	1,579	84	...	141	..	20·76	21·72	...	19·92	379	222	138	80	125	190	169	151	125	225	165·48	21·84	10·92	8·88	15·84	12·72	13·80	26·16	24·00	48·48
	Birbhum	...	1,446	349	...	25	...	28·08	25·68	...	20·76	549	208	104	67	82	155	167	124	131	238	394·68	30·48	12·36	9·96	14·64	13·68	16·32	17·16	27·00	61·80
	Midnapore	3	4,149	305	...	307	49·60	22·20	22·20	...	31·52	732	545	358	295	236	588	508	456	422	674	140·40	25·56	12·36	9·84	12·36	14·88	16·56	23·28	35·40	59·04
	Hughli	1	1,208	364	...	...	41·28	27·12	33·64	...	...	246	131	94	64	87	197	226	159	161	208	174·04	26·52	16·44	12·36	17·40	18·24	25·32	25·20	40·32	67·44
	Serampore	...	658	141	...	...	...	27·00	28·32	...	...	118	94	79	36	36	93	95	76	74	99	141·24	35·28	27·72	14·16	13·68	15·72	19·56	22·20	35·04	60·96
	Total (Hughli including Serampore).	1	1,866	505	...	...	15·24	27·12	31·92	..	...	364	225	172	100	123	290	321	235	235	307	161·83	29·64	20·16	12·96	16·20	17·40	23·28	24·12	38·52	65·28
PRESIDENCY	Howrah	2	1,098	280	...	...	11·64	26·04	25·32	...	...	254	174	113	61	63	147	123	95	121	219	163·56	30·72	17·28	11·88	13·20	14·52	15·72	18·72	33·84	67·68
	24-Pergunnahs	9	1,694	996	...	...	10·56	19·56	19·08	...	...	559	343	326	123	107	309	288	214	188	371	97·80	22·68	17·52	9·12	14·64	11·52	13·80	16·08	23·40	44·16
	Nuddea	6	1,155	1,122	...	...	11·16	18·96	19·60	...	...	533	355	230	159	156	219	225	201	162	350	147·76	20·88	10·34	11·04	15·36	9·96	11·88	14·52	18·12	40·08
	Jessore	...	1,849	2,984	...	...	...	24·52	20·48	..	...	554	627	555	330	370	564	571	453	294	517	129·96	32·76	22·92	20·16	30·72	21·00	24·96	28·20	28·08	52·44
	Murshidabad	...	1,310	1,077	...	...	...	24·72	21·84	..	...	420	345	185	116	127	226	242	236	138	372	190·94	29·32	12·24	11·40	15·36	13·20	15·36	16·92	22·80	31·92
	Khulna	...	980	1,177	...	...	..	22·44	25·32	..	..	350	332	244	93	110	279	224	160	151	274	139·90	31·08	19·20	10·20	13·68	13·68	18·00	18·96	29·28	52·56
RAJSHAHYE	Dinajpur	...	1,496	1,742	...	...	...	24·96	26·16	...	...	503	337	210	162	168	504	497	378	197	284	172 32	25·16	9·84	12·96	17·28	23·40	26·28	30·72	29·52	45·72
	Rajshahye	...	689	2,898	...	...	...	28·56	33·00	...	...	546	556	369	242	279	456	404	309	173	260	208·92	41·04	20·04	21·60	32·04	23·76	25·68	28·92	29·40	44 28
	Rungpore	...	2,132	2,863	...	...	...	31·32	29·76	...	...	711	376	345	247	294	741	779	618	424	476	166·44	18·72	12·36	14·88	25·40	25·32	27·72	34·80	38·64	51·84
	Bogra	...	330	1,296	...	...	...	28 08	28 16	...	...	336	191	154	89	90	193	148	134	142	149	243·04	23 76	15·12	14·64	18·12	18·48	16·92	24·48	46·80	48·48
	Pubna	...	782	2,259	...	...	...	25·92	28·44	...	...	427	570	369	235	222	254	250	223	147	358	141·60	38·40	21·00	22·32	28·20	15·00	16·56	21·96	24·12	46·56
	Darjiling	2	612	21	9	...	28·44	57·72	30·60	5·76	...	70	78	39	44	44	103	108	73	37	48	268·44	57·48	25·08	31·60	39·96	35·28	50·40	63·96	61·20	82·68
	Julpaiguri	...	1,285	716	...	17	...	41·76	41·16	...	44·16	514	193	81	79	94	234	245	209	150	216	381·84	33·48	10·92	15·48	27·00	29·52	34·56	42·48	53·04	80·28
DACCA	Dacca	15	1,357	1,975	...	...	20·40	19·32	18·84	...	...	571	524	296	150	183	307	326	241	223	556	116·40	21·60	10·56	7·92	13·56	11·04	13·92	15·36	23·76	50·16
	Faridpore	6	1,266	2,252	...	...	26·16	23·16	27·60	...	...	484	611	325	197	206	354	371	324	247	407	143·88	34·20	16·20	13·56	20·52	15·84	19·80	24·60	30·12	49·80
	Backergunj	5	1,167	3,234	2	...	16·08	22·32	39 60	4·92	...	934	614	451	225	173	382	395	337	297	520	239·76	33 36	21·28	13·20	12·60	13·32	15·24	23·64	33·00	60·24
	Mymensing	...	1,655	3,470	...	84	...	20·04	19·44	..	33·76	575	736	544	271	291	674	563	493	375	740	92·52	21·48	12·96	10·38	13·56	14·64	16·20	23·32	28·80	51·84
CHITTAGONG	Chittagong	1	382	1,270	95	...	11·28	15·72	18·96	21·00	..	291	226	185	98	106	207	166	141	147	211	72·84	18·36	11·64	8·64	13·20	14·76	14·40	17·64	26·16	48·84
	Noakhali	1	494	1,738	...	...	20·40	27·96	34·20	...	...	409	499	281	105	94	153	144	130	173	382	131·16	20·52	11·16	10·80	14·64	17·16	15·96	17·64	25·08	58·20
	Tipperah	...	968	1,679	...	...	...	22·80	20·04	...	...	387	357	220	140	156	359	289	195	173	392	131·16	20·52	11·16	10·80	14·64	17·16	15·96	17·64	25·08	58·20
PATNA	Patna	7	3,424	504	...	...	32·40	26·64	29·32	...	...	681	795	284	141	114	311	295	351	382	630	197·88	41·64	15·24	10·08	12·12	12·72	13·80	22·44	31·60	58·80
	Gya	...	4,178	602	...	...	...	26·40	30·96	...	...	528	813	252	176	157	422	514	657	696	865	148·08	22·08	10·32	9·96	13·44	14·28	19·56	34·80	58·56	81·96
	Shahabad	...	4,172	333	...	...	...	27·48	27·12	...	...	576	447	204	154	144	515	519	582	510	784	153·96	21·84	8·88	9·00	13·44	18·84	20·76	35·28	58·08	73·20
	Monufferpore	...	3,660	459	...	...	...	19·32	16 68	...	...	490	827	295	155	110	316	400	450	436	620	132·24	30·48	9·48	7·20	7·80	9·12	12·24	19·80	30·84	48·24
	Durbhanga	1	5,755	762	...	...	36·84	29·64	29·52	...	...	622	1,190	641	291	232	628	707	603	646	708	148·32	19·08	13·68	17·52	23·04	21·00	25·68	46·80	60·24
	Sarun	...	3,095	401	...	...	...	18·36	17·76	...	...	635	592	198	103	116	318	284	314	316	620	142 20	25·32	7·08	5·16	9·36	10·56	9·72	15·60	26·88	53·88
	Chumparan	6	2,820	384	...	...	37·08	22·80	18·96	...	...	431	403	280	165	136	360	414	331	338	352	116·88	24·76	13·68	11·28	14·16	14·88	13·24	22·08	39·00	44·16
BHAGULPORE	Monghyr	1	4,261	525	...	...	10·92	28·80	33 48	...	...	633	927	359	236	156	341	394	475	512	724	208·04	44·04	14·28	13 80	13·80	15·00	15·84	27·84	49·56	76·80
	Bhagulpore	1	6,811	591	...	...	20·76	46·44	38·16	...	...	728	1,057	722	531	463	1,031	1,045	715	548	543	237·00	55·56	27·72	31·32	39·24	36 84	41·16	45·00	65·04	68·04
	Purneah	...	3,013	1,590	...	...	...	33·48	24·72	...	...	344	376	315	320	244	764	730	602	330	487	105·96	21·12	15·24	20·16	21·36	29·40	29·88	38·40	45·36	62·76
	Maldah	...	1,067	776	...	...	...	33·72	28·20	...	...	237	321	150	102	106	247	207	154	101	216	144·12	46·08	16·44	16·68	21·24	24·60	24·60	27·48	32·64	60·00
	Sonthal Pergunnahs	1	1,233	165	...	727	3·84	17·40	18·12	...	14·28	3·3	346	207	115	123	252	206	161	194	199	124·08	18·24	8·52	7·56	12·96	13·08	11·64	14·88	32·64	50·96
ORISSA	Cuttack	1	2,911	58	...	...	5·04	19·92	14 64	...	...	560	340	211	127	177	209	286	282	287	401	178·92	17·88	9·36	7·92	15·48	11·76	14·28	21·12	29·76	42·72
	Poori	2	1,806	21	...	...	29·28	24·72	17·88	...	...	32	103	115	71	71	186	159	176	191	362	252·48	17·76	11·76	9·48	12·72	14·04	15·12	25·08	38·76	67·84
	Balasore	...	1,660	30	...	1	...	21·72	15·12	...	2·40	419	181	79	43	72	164	150	144	165	267	244·80	18·96	6·72	4·92	11·76	12·12	14·16	19·80	36·24	66·68
CHOTA NAGPORE	Hazaribagh	1	2,469	270	...	47	21·72	31·92	30·48	...	6·48	536	318	149	92	63	232	312	295	300	450	185·16	25·68	9·48	9·36	9·96	16·68	23·04	37·08	65·04	124·08
	Lohardugga	16	1,268	255	...	1,286	5·28	17·40	39·48	...	24·60	443	311	193	116	140	317	333	308	268	398	124·80	15·60	8·52	7·68	14·52	14·28	17·76	27·96	41·88	73·44
	Singbhum	3	798	9	...	...	12·00	21·36	46·32	...	...	138	111	69	33	46	79	91	98	82	63	189·48	21·60	11·04	7·68	14·40	12·72	16·92	30 00	43·68	38·76
	Manbhum	...	1,828	109	...	167	...	23·16	28·68	...	30·48	424	321	146	121	121	208	210	156	172	225	177·72	27·60	9·60	13·86	15·96	18·76	17·16	21·48	36·48	51·72
	TOTAL FOR THE PROVINCE.	93	90,335	44,999	106	2,802	11·40	25·32	25·20	15·96	20·16	20,754	19,092	11,343	6,823	6,972	15,423	15,097	13,296	11,717	17,728	160·80	28·08	13·68	12·12	16·68	16·68	18·96	24·96	36·00	57·36

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.*,

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 12th July 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 12th July 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 18·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1·3 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1886 and 1889—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	23·2	17·7	18·5	19·9	18·2	19·5	18·2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 21st June 1890.	28th June 1890.	5th July 1890.	12th July 1890.	Towns.	Weeks ending— 21st June 1890.	28th June 1890.	5th July 1890.	12th July 1890.
Burdwan	7·6	19·8	16·8	13·7	Narainganj	58·0	12·4	4·1	20·7
Midnapore	3·1	20·1	17·0	23·2	Chittagong	23·5	21·1	42·3	28·2
Hughli and Chinsurah	14·8	18·1	26·3	18·1	Comillah	11·5	38·5	34·7	3·8
Serampore	29·4	27·5	25·5	13·7	Patna	7·8	11·4	10·1	11·4
Utterpara	9·4	9·4	37·7	...	Gya	12·3	21·9	14·3	29·4
Howrah	15·5	13·2	21·2	17·2	Arrah	17·9	10·8	14·4	23·9
Bali	10·5	14·0	10·5	28·1	Mozufferpore	18·2	15·8	13·4	18·2
Kishnagar	9·5	26·5	3·9	17·0	Durbhanga	17·3	28·3	13·4	22·8
Ranaghat	...	6·0	18·0	18·0	Chupra	8·0	8·0	7·0	19·1
Santipore	8·8	17·5	12·3	10·5	Bhagulpore	17·2	21·7	29·9	19·9
Jessore	.	.	6·1	6·1	Monghyr	23·5	24·4	14·5	38·9
Rampore Beauleah	36·8	34·2	34·2	18·4	Purneah	....	3·5	17·3	3·5
Darjiling	59·3	...	14·8	37·0	Poori	29·4	14·7	23·1	14·7
Dacca	7·8	9·7	11·0	9·7					

It will be seen that last week the highest birth-rate was returned from Monghyr (38·9), and the lowest from Purneah (3·5). No births were registered during the week in Utterpara town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 21·4 per 1,000 of the population. The rate of the week is 5·2 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	36·2	23·5	24·0	21·1	28·6	26·6	21·4

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 21st June 1890.	28th June 1890.	5th July 1890.	12th July 1890.	Towns.	Weeks ending— 21st June 1890.	28th June 1890.	5th July 1890.	12th July 1890.
Burdwan	15·3	19·8	16·8	22·9	Narainganj	16·6	20·7	8·3	24·8
Midnapore	20·1	26·3	21·7	23·2	Chittagong	16·4	23·5	37·6	30·9
Hughli and Chinsurah	19·7	27·9	23·0	21·3	Comillah	11·5	34·7	46·2	26·9
Serampore	15·7	29·4	20·4	29·4	Patna	15·3	14·3	15·3	14·9
Utterpara	28·3	...	9·4	18·9	Gya	34·8	27·3	26·0	32·1
Howrah	13·0	8·6	8·6	11·5	Arrah	37·1	46·5	31·1	35·9
Bali	17·5	10·5	24·6	3·5	Mozufferpore	26·8	36·5	31·6	31·6
Kishnagar	...	...	13·3	3·8	Durbhanga	21·2	25·0	17·3	23·6
Ranaghat	6·0	...	6·0	18·0	Chupra	14·1	19·1	8·0	21·1
Santipore	15·8	7·0	14·0	8·8	Bhagulpore	18·1	16·8	15·4	15·4
Jessore	30·7	13·2	18·4	30·6	Monghyr	17·2	19·9	9·0	25·3
Rampore Beauleah	23·6	15·8	15·8	10·5	Purneah	10·4	27·7	10·4	13·9
Darjiling	37·0	59·3	51·9	22·2	Poori	362·0	245·5	80·0	65·0
Dacca	17·5	19·5	21·4	15·6					

It will be seen that last week the highest mortality occurred in the town of Poori (65·), and the lowest in Bali (3·5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Arrah ...	15·5	Jessore ...	30·6	Poori ...	16·8
Midnapore ...	13·9	Poori ...	29·3	Serampore ...	13·7
Mozuffer pore ...	12·2			Gya ...	13·0
Poori ...	10·5			Monghyr ...	9·9
Serampore ...	7·8				
Chupra ...	7·0				
Monghyr ...	4·5				

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 3·7 from cholera, against 3·1 per 1,000 in the preceding week; ·5 from small-pox, against the same ratio; 8·6 from fever, against 8·5; 2·1 from bowel-complaints, against 1·9; ·5 from injury, against ·4; and 6· from other causes, against 5·6 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	23·0	Christians ...	22·4	Under 1 year ...	196·7
Females	19·7	Hindus ...	22·7	1 and under 5 years ...	29·7
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	116	Mahomedans ...	18·4	5 „ 10 „ ...	13·7
				10 „ 15 „ ...	15·7
				15 „ 20 „ ...	10·9
				20 „ 30 „ ...	11·3
				30 „ 40 „ ...	13·1
				40 „ 50 „ ...	12·5
				50 „ 60 „ ...	22·8
				60 years and upwards ...	46·7

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 28th July 1890. *Sanitary Commissioner for Bengal.*

1	2	3			4			5			6	7							8							9	10		11		12
												MORTALITY ACCORDING TO—																			
												Disease.																			
												Deaths from—							Ratio per 1,000 of Population per annum.												
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.																					Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
					Number of—			Ratio per 1,000 of Population per annum.			Ratio of male births to every 100 female births.																Sex.				
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,069	16,017	34,086	4	5	9	6·1	7·6	13·7	80	...	1	9	2	2	1	15	...	1·5	13·7	3·1	3·1	1·5	22·9	16·8	8	7	23·0	23·7	101
Midnapore ...	Midnapore ...	16,927	16,633	33,560	4	11	15	6·2	17·0	23·2	36	9	...	2	1	...	3	15	13·9	...	3·1	1·5	...	4·6	23·2	21·7	9	6	27·6	18·8	146
Hooghli ...	Hooghli and Chinsurah.	15,858	15,829	31,687	4	7	11	6·6	11·5	18·1	55	...	2	4	1	...	6	13	...	3·3	6·6	1·6	...	9·8	21·3	23·0	7	6	23·0	19·7	116
Serampore ...	Serampore ...	13,559	12,937	26,496	6	1	7	11·7	2·0	13·7	600	4	...	1	2	1	7	15	7·8	...	2·0	3·9	2·0	13·7	29·4	29·4	9	6	34·5	24·1	143
	Utterpara	3,046	2,464	5,510	...	...	...	...	...	...	...	...	...	...	1	...	1	2	...	...	...	0·4	...	9·4	18·9	9·4	1	1	17·1	21·1	81
Howrah ...	Howrah	53,153	37,660	90,813	17	13	30	9·7	7·4	17·2	130	3	...	5	3	1	8	20	1·7	...	2·9	1·7	·6	4·6	11·5	8·6	12	8	11·7	11·0	106
	Bali	7,886	6,979	14,815	3	5	8	10·5	17·5	28·1	60	...	...	...	...	...	1	1	...	...	...	...	...	3·5	3·5	24·6	...	1	...	7·5	No male death.
Nuddea ...	Kishnagar ...	13,263	14,214	27,477	4	5	9	7·5	9·5	17·0	80	...	...	1	...	...	1	2	...	...	1·9	...	...	1·9	3·8	13·2	2	...	7·8	...	No female death.
	Renaghat	4,026	4,655	8,683	1	2	3	6·0	12·0	18·0	50	1	...	1	...	...	1	3	6·0	...	6·0	...	...	6·0	18·0	6·0	3	...	38·7	...	Ditto.
	Santipore	13,708	15,979	29,687	5	1	6	8·8	1·7	10·5	500	2	...	3	...	...	...	5	3·5	...	5·3	...	...	...	8·8	14·0	3	2	11·4	6·5	175
Jessore ...	Jessore	4,930	3,565	8,495	1	...	1	6·1	...	6·1	No female birth.	...	...	5	...	...	...	5	...	...	30·6	...	...	...	30·6	18·4	3	2	32·3	28·4	113
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	4	3	7	10·5	7·9	18·4	133	...	...	2	1	...	1	4	...	...	5·3	2·6	...	2·6	10·5	15·8	1	3	4·8	17·3	27
Darjiling ...	Darjiling	4,579	2,439	7,018	3	2	5	22·2	14·8	37·0	150	..	...	2	1	...	...	3	...	...	14·8	7·4	...	...	22·2	51·9	1	2	11·4	42·6	26
Dacca ...	Dacca	42,782	37,379	80,161	4	11	15	2·6	7·1	9·7	36	...	1	10	2	3	8	24	...	·6	6·5	1·3	1·9	5·2	15·6	21·4	17	7	20·7	9·7	213
	Narainganj ...	7,605	4,956	12,561	2	3	5	8·3	12·4	20·7	66	...	...	2	...	...	4	6	...	...	8·3	...	...	16·5	24·8	8·3	1	5	6·8	52·5	12
Chittagong ...	Chittagong ...	13,340	8,790	22,130	5	7	12	11·7	16·4	28·2	71	3	1	6	2	2	3	17	7·0	2·3	14·1	4·7	4·7	7·0	39·9	37·6	11	6	42·9	35·5	121
Tipperah ...	Comillah	8,153	5,353	13,506	1	...	1	3·8	...	3·8	No female birth.	...	...	5	1	1	...	7	...	...	19·3	3·8	3·8	...	26·9	46·2	4	3	25·5	29·1	87
Patna	Patna City ...	78,762	81,475	160,237	17	18	35	5·5	5·8	11·4	94	6	...	16	7	...	17	46	1·9	...	5·2	2·3	...	5·5	14·9	15·3	22	24	14·5	15·3	94
Gya	Gya	38,290	37,831	76,121	26	17	43	17·3	11·6	29·4	153	3	...	25	...	...	19	47	2·0	...	17·1	...	...	13·0	32·1	26·0	21	26	28·5	35·7	79
Shahabad ...	Arrah	20,960	22,505	43,465	9	11	20	10·8	13·1	23·9	81	13	1	13	2	...	1	30	15·5	1·2	15·5	2·4	...	1·2	35·9	31·1	22	8	54·6	18·5	295
Mozufferpore..	Mozufferpore ...	23,084	19,658	42,742	9	6	15	10·9	7·3	18·2	150	10	1	6	6	1	2	26	12·2	1·2	7·3	7·3	1·2	2·4	31·6	31·6	11	15	23·8	39·7	63
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	18	11	29	14·2	8·6	22·8	163	4	...	14	2	...	10	30	3·1	...	11·0	1·6	...	7·9	23·6	17·3	17	13	26·2	20·9	125
Saran	Chupra	25,116	26,554	51,670	7	5	12	7·0	5·0	12·1	140	7	2	3	4	...	5	21	7·0	2·0	3·0	4·0	...	5·0	21·1	8·0	15	6	31·1	11·7	265
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	14	8	22	12·7	7·2	19·9	175	1	...	12	...	...	4	17	·9	...	10·9	...	...	3·6	15·4	15·4	8	9	14·0	16·8	83
Monghyr ...	Monghyr	28,154	29,366	57,520	22	21	43	19·9	19·0	38·9	104	5	...	11	1	...	11	28	4·5	...	9·9	·9	...	9·9	25·3	9·0	16	12	29·6	21·2	139
Purneah ...	Purneah	8,463	6,553	15,016	1	...	1	3·5	...	3·5	No female birth.	...	...	3	1	...	...	4	...	...	10·4	3·5	...	...	13·9	10·4	3	1	18·4	7·9	233
Poori	Poori	13,247	11,537	24,784	3	4	7	6·3	8·4	14·7	75	5	2	14	2	...	8	31	10·5	4·2	29·3	4·2	...	16·8	65·0	86·0	17	14	66·7	63·0	105
	Total ...	550,086	510,588	1,061,574	194	177	371	9·5	8·7	18·2	109	76	11	175	42	11	122	437	3·7	·5	8·6	2·1	·5	6·0	21·4	20·1	244	193	23·0	19·7	116

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	12	3	...	...	...	26·3	15·2	...	...	4	...	1	2	2	...	3	1	2	...	315·2	...	22·3	41·3	33·3	...	22·6	11·8	43·4	...
Midnapore ...	Midnapore ...	...	15	...	...	...	...	30·1	...	...	...	1	...	...	2	1	2	2	4	1	2	70·0	...	...	34·2	16·5	14·2	18·8	55·8	25·2	56·8
Hughli ...	Hughli and Chinsurah	...	11	2	...	...	...	22·6	16·9	...	...	5	2	1	...	...	...	1	1	...	3	323·8	46·9	18·0	...	...	...	9·1	12·5	...	75·3
Serampore ...	Serampore ...	...	15	...	...	...	...	30·9	...	...	...	1	1	2	1	1	...	5	1	1	2	73·2	28·8	41·4	23·4	23·8	...	52·3	15·4	27·2	74·8
	Utterpara	...	2	...	...	...	...	19·5	...	...	...	...	1	...	...	...	...	1	...	...	...	...	123·5	...	...	...	...	49·0	...	...	...
Howrah ...	Howrah	1	15	4	...	...	27·5	11·4	10·1	...	...	5	1	...	1	2	4	3	2	1	1	126·0	9·4	...	7·9	14·2	9·2	8·1	8·8	9·5	13·9
	Bali	...	1	...	...	...	...	3·9	...	...	...	1	...	...	...	...	...	...	...	...	...	143·6	...	...	...	...	...	...	...	...	...
Nuddea ...	Kishnagar ...	...	1	1	...	...	...	2·8	6·3	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	10·8	12·1	...	...	...
	Ranaghat	...	1	2	...	...	...	7·1	76·2	...	...	...	1	...	...	...	1	...	1	...	...	...	65·4	...	...	...	34·5	...	51·8	...	...
	Santipore	...	5	...	...	...	...	12·6	...	...	...	1	...	...	...	...	1	2	...	...	1	61·5	...	...	...	...	10·6	24·0	...	...	26·5
Jessore ...	Jessore	...	...	5	...	...	...	...	68·0	...	...	1	2	...	2	...	...	...	...	...	...	268·0	210·5	...	156·4	...	...	...	...	...	...
Rajshahye ...	Rampore Beauleah	...	3	1	...	...	...	15·7	5·3	...	...	...	...	1	...	...	3	...	...	...	...	...	...	25·0	...	...	37·5	...	...	...	...
Darjiling ...	Darjiling	...	3	...	...	...	...	34·0	...	...	...	1	1	...	...	...	...	1	...	...	...	429·8	80·9	...	...	...	...	36·3	...	...	...
Dacca ...	Dacca	...	16	8	...	...	...	20·6	10·6	...	...	3	4	2	...	...	4	1	1	4	5	82·2	28·2	10·5	...	...	13·6	4·5	6·2	43·9	46·7
	Naraingan] ...	...	...	6	...	...	...	...	50·6	...	...	4	...	...	...	...	...	...	...	2	...	745·5	...	...	...	...	...	...	...	133·9	...
Chittagong ...	Chittagong ...	1	3	13	...	...	65·3	26·9	41·2	...	...	3	...	2	1	1	5	1	2	1	1	277·1	...	41·6	20·2	21·5	56·2	15·6	46·1	47·9	65·8
Tipperah ...	Comillah	...	2	5	...	...	...	17·5	35·2	...	...	1	1	...	1	1	...	1	2	...	...	175·1	39·3	...	35·6	41·3	...	26·1	79·1	...	...
Patna	Patna City ...	...	41	5	...	...	...	17·9	6·4	...	...	10	8	4	2	1	5	4	2	3	7	120·6	28·5	12·4	7·2	4·7	9·0	8·9	5·5	11·9	26·4
Gya ...	Gya	...	41	6	...	...	...	35·5	19·4	...	...	16	5	1	1	...	...	3	5	3	13	464·8	40·9	7·4	7·7	...	...	12·3	26·6	23·7	131·3
Shahabad ...	Arrah	...	20	10	...	...	...	33·5	41·9	...	...	8	4	...	3	1	3	4	1	3	3	323·0	46·9	...	35·3	16·2	19·9	32·3	11·1	50·4	54·1
Mozufferpore ...	Mozufferpore ...	1	20	5	...	...	233·2	34·6	20·8	...	...	...	7	2	6	1	2	3	1	1	3	...	90·1	23·1	78·9	17·2	12·1	22·4	10·4	16·0	64·1
Durbhanga ...	Durbhanga ...	...	22	8	...	...	...	23·6	23·7	...	...	8	5	6	...	...	4	...	2	2	3	267·2	34·2	39·9	...	...	15·6	...	14·0	23·7	48·8
Saran	Chupra	...	17	4	...	...	...	22·3	17·5	...	...	5	...	3	1	2	3	1	1	3	2	184·3	...	26·2	10·4	30·0	16·9	6·7	8·6	37·7	30·6
Bhagulpore ...	Bhagulpore ...	...	13	4	...	...	...	17·0	12·1	...	...	4	3	2	1	3	1	1	...	1	1	174·2	28·8	17·7	8·3	37·3	4·8	5·6	...	12·2	14·4
Monghyr ...	Monghyr	...	19	9	...	...	...	22·1	37·2	...	...	10	5	...	1	...	3	2	1	3	3	350·2	41·3	...	9·1	...	15·1	11·7	8·2	39·2	43·5
Purneah ...	Purneah	...	2	2	...	...	...	11·3	18·4	...	...	1	...	...	2	...	1	...	...	...	...	183·7	...	...	87·0	...	15·8	...	...	...	...
Poori ...	Poori	...	30	1	...	...	...	63·6	247·6	...	...	3	2	2	2	1	3	4	2	3	9	514·9	57·9	46·4	55·4	23·0	29·5	51·3	31·3	69·9	259·1
	TOTAL ...	3	330	104	...	...	22·4	22·7	18·4	...	...	96	53	29	29	17	46	44	30	34	59	196·7	29·7	13·7	15·7	10·9	11·3	13·1	12·5	22·8	46·7

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 26th July 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 26th July 1890.			Week ending Saturday, the 27th July 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	364	62,525	926	252	45,200	712
Jute	9	3,775	64	8	3,625	67
Firewood	84	46,675	684	76	30,050	455
Other articles	775	2,09,365	2,728	725	1,75,775	2,492
Total ...	1,232	3,22,340	4,402	1,061	2,54,650	3,726

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of May 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	1,387	.....	2,156	11	1,577	2,167	.....	590
Cotton, raw	.....	8	1	19	8	20	.....	12
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	304	.....	388	5	304	393	.....	89
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	29	46	27	124	75	151	.....	76
5.—Others	105	128	44	1,168	233	1,212	.....	979
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	.....	15	.....	26	15	26	.....	11
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrewed	.....	59	.....	273	59	273	.....	214
2.—Gunny-bags and cloth	9	53	21	24	62	45	17	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	88	3	66	21	91	87	4	.....
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	134	.....	87	.....	134	87	47	.....
3.—Others	258	.....	158	.....	258	108	100	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly	106	302	126	1,589	408	1,715	.....	1,307
4.—Niger								
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	.....	1,772	3	57	1,772	60	1,712	.....
3.—Others	35	59	81	196	94	277	.....	183
Railway plant and rolling-stock	.....	.....	147	18	137	165	22	.....
Salt	365	.....	499	9	365	508	.....	143
Sugar—								
1.—Drained	61	490	17	2,362	551	2,379	.....	1,828
2.—Undrained	17	53	58	65	70	123	.....	53
Tobacco								
All other articles of merchandise—								
1.—Unmanufactured	592	425	365	339	1,017	685	332	.....
2.—Manufactured								
Total ...	3,490	3,413	4,244	6,287	7,280	10,531	2,234	5,485

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of May 1890.

	Tons.
INCREASES.	
Betel-nuts	1,712
Principally from the Bengal Central Flotilla Company.	
DECREASES.	
Coal	590
The decrease is due presumably to there being a sufficiency of stock at Bongong and Khoolna.	
Jute, unscrewed	214
The decrease was in despatches from Khoolna, and is said to be due to the dullness of the market.	
Seeds	1,307
The decrease was general throughout the district, and is said to be due to short crops. The market in Calcutta was also bad.	
Sugar	1,828
The foregoing remark applies to this item also. Muslandpur, Gobardanga, Jadabpur, Nabharan, Jhikargacha, and Jessore are the principal sugar-manufacturing stations, and all exhibit decrease; that from Jhikargacha being 18,379 maunds.	

F. P. QUINLAN,
Examiner of Accounts.

CALCUTTA, *the 26th July* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	233,176	2,37,670 0 0	19,43,891 10	4,20,996 6 0	19,072 0 0	6,77,738 6 0	65,208½	78,551	143,759½
Or per mile of railway ...	.....	155 12 9	.....	275 15 7	12 8 0	444 4 4	.....	.....	.....
For previous 2 weeks of half-year	408,244	3,94,158 13 0	34,39,786 0	7,54,949 7 0	32,052 10 0	11,81,160 14 0	112,787½	142,375½	255,133½
Total for 3 weeks ...	641,420	6,31,828 13 0	53,83,677 10	11,75,945 13 0	51,124 10 0	18,58,899 4 0	177,996½	220,926½	398,893
COMPARISON.									
Total for corresponding week of previous year	238,065½	2,42,015 14 2	24,94,255 20	4,99,686 0 3	21,061 0 9	7,62,763 15 2	65,319	93,549	158,868
Per mile of railway corresponding week of previous year ..	.....	158 10 4	.....	327 8 11	13 12 11	500 0 2	.....	.....	.....
Total to corresponding date of previous year	788,906½	7,42,319 1 8	68,23,527 30	14,58,875 5 9	50,038 2 7	22,51,232 10 0	193,777	275,794	469,571

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 20th July 1889.			Receipts for week ending 19th July 1890.			Total receipts from 1st April 1889 to 20th July 1889.			Total receipts from 1st April 1890 to 19th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	7,62,765	500	1,525½	6,77,738	444	1,525½	1,42,77,983	585	1,525½	1,29,97,950	533	.....	12,80,033

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,843	5,407 10 0	40,062 20	2,488 5 0	38 4 0	7,934 3 0	1,043	553	1,596
Or per mile of railway ...	190	94 8 8	700 20	43 8 0	0 10 8	138 11 5	.....	.....	.....
For previous 2 weeks of half-year	17,396	8,416 14 0	73,391 10	4,369 9 0	69 4 0	12,855 11 0	1 670	1,206	2,876
Total for 3 weeks ...	28,239	13,824 8 0	1,13,453 30	6,857 14 0	107 8 0	20,789 14 0	2,713	1,759	4,472
Comparison.									
Total for corresponding week of previous year	10,235½	5,195 7 4	46,479 10	2,460 0 0	27 8 3	7,682 15 7	923	819	1,742
Per mile of railway corresponding week of previous year ...	179	90 13 3	812 30	43 0 1	0 7 9	134 5 1	.....	.....	.....
Total to corresponding date of previous year	30,224	15,600 2 0	1,66,749 10	7,980 11 0	112 1 9	23,692 14 9	2,668	2,119	4,787

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 20th July 1889.			Receipts for week ending 19th July 1890.			Total receipts from 1st April 1889 to 20th July 1889.			Total receipts from 1st April 1890 to 19th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	7,683	134	57½	7,994	139	57½	1,37,689	150	57½	1,48,403	162	10,714	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,907	4,352 1 0	3,696 30	131 12 0	7 10 0	4,491 7 0	913	55	968
Or per mile of railway	.....	195 9 7	.....	5 14 9	0 5 6	201 13 10	.....	.....	.....
For previous 2 weeks of half-year	36,022	8,057 15 0	3,599 0	306 0 0	13 8 0	9,277 7 0	1,545	105	1,650
Total for 3 weeks ...	54,829	13,310 0 0	12,294 30	437 12 0	21 2 0	13,768 14 0	2 458	160	2,618
Comparison.									
Total for corresponding week of previous year	17,094	4,000 0 11	5,572 10	193 14 0	6 1 6	4,200 0 5	931	37	968
Per mile of railway corresponding week of previous year ...	.....	179 12 5	.....	8 11 5	0 4 5	188 12 3	.....	.....	.....
Total to corresponding date of previous year	64,447½	15,041 3 4	18,528 20	587 14 0	9 7 6	15,638 8 10	2,745	115	2,860

Errata.—Receipts per mile of railway shewn in the approximate return for the first 12 days of July 1890 as for coaching Rs. 412-9-8 and for merchandise and mineral traffic Rs. 8-12-1 should be Rs. 402-9-8 and Rs. 13-12-1 respectively.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 20th July 1889.			Receipts for week ending 19th July 1890.			Total receipts from 1st April 1889 to 20th July 1889.			Total receipts from 1st April 1890 to 19th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	4,200	189	22½	4,491	202	22½	98,276	276	22½	99,097	278	821	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for first 12 days of July 1890, on 767 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 12 days	310,859	1,18,680 0 0	7,01,840 0	1,36,630 0 0	22,550 0 0	2,77,840 0 0	38,965	52,130	91,095
Or per mile of railway	203	77 0 0	458 0	89 0 0	*2 0 0	168 0 0	.....	.....	.....
For previous weeks of half-year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total for 2 weeks ...	310,859	1,18,680 0 0	7,01,840 0	1,36,630 0 0	22,550 0 0	2,77,840 0 0	38,965	52,130	91,095
COMPARISON.									
Total for corresponding 13 days of previous year	315,010	1,21,016 0 0	8,36,305 0	1,36,780 0 0	23,256 0 0	2,81,052 0 0	43,568	43,712	87,280
Per mile of railway corresponding period of previous year ..	211	81 0 0	560 0	92 0 0	*3 0 0	176 0 0	.....	.....	.....
Total to corresponding date of previous year	315,010	1,21,016 0 0	8,36,305 0	1,36,780 0 0	23,256 0 0	2,81,052 0 0	43,568	43,712	87,280

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for first 13 days of July 1889.			Receipts for first 12 days of July 1890.			Total receipts from 1st April 1889 to 13th July 1889.			Total receipts from 1st April 1890 to 12th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,81,052	188	767	2,77,840	181	681	24,16,494	236	759	*25,58,214	225	1,41,720	.....

* Audited up to week ending 31st May 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for first 12 days of July 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for first 12 days ...	56,282	18,290 0 0	59,520 0	3,530 0 0	260 0 0	22,080 0 0	6,211	3,528	9,739
Or per mile of railway	225	73 0 0	238 0	14 0 0	1 0 0	88 0 0	.....	.....	.....
For previous weeks of half-year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total for 2 weeks ...	56,282	18,290 0 0	59,520 0	3,530 0 0	260 0 0	22,080 0 0	6,211	3,528	9,739
COMPARISON.									
Total for corresponding 13 days of previous year	61,874	19,386 0 0	65,978 0	3,911 0 0	132 0 0	23,429 0 0	6,472	4,122	10,594
Per mile of railway corresponding period of previous year ...	247	78 0 0	256 0	15 0 0	.....	94 0 0	.....	.....	.....
Total to corresponding date of previous year	61,874	19,386 0 0	63,978 0	3,911 0 0	132 0 0	23,429 0 0	6,472	4,122	10,594

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for first 13 days of July 1889.			Receipts for first 12 days of July 1890.			Total receipts from 1st April 1889 to 13th July 1889.			Total receipts from 1st April 1890 to 12th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	23,429	94	125	22,08	88	125	2,03,276	108	125	*1,89,564	101	.....	13,712

* Audited up to week ending 31st May 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for first 12 days of July 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 12 days	27,350	8,330 0 0	21,780 0	2,190 0 0	150 0 0	10,670 0 0	4,172	1,182	5,354
Or per mile of railway	159	48 0 0	127 0	13 0 0	1 0 0	62 0 0	.....	.....	.....
For previous weeks of half-year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total for 2 weeks ...	27,350	8,330 0 0	21,780 0	2,190 0 0	150 0 0	10,670 0 0	4,172	1,182	5,354
Comparison.									
Total for corresponding 13 days of previous year	27,948	8,015 0 0	41,957 0	1,385 0 0	667 0 0	10,067 0 0	4,624	1,184	5,808
Per mile of railway corresponding period of previous year	162	47 0 0	244 0	8 0 0	4 0 0	59 0 0	.....	.....	.....
Total to corresponding date of previous year	27,948	8,015 0 0	41,957 0	1,385 0 0	667 0 0	10,067 0 0	4,624	1,184	5,808

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for first 13 days of July 1889.			Receipts for first 12 days of July 1890.			Total receipts from 1st April 1889 to 13th July 1889.			Total receipts from 1st April 1890 to 12th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	10,067	59	86	10,670	62	86	84,316	65	86	*92,274	72	7,928	.....

* Audited up to week ending 31st May 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for first 12 days of July 1890, on 27·25 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for 12 days	6,070	2,100 0 0	28,490 0	1,500 0 0	20 0 0	3,620 0 0	1,000	775	1,775
Or per mile of railway	111	39 0 0	523 0	27 0 0	.....	66 0 0	.....	.....	.....
For previous weeks of half-year	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total for 2 weeks ...	6,070	2,100 0 0	28,490 0	1,500 0 0	20 0 0	3,620 0 0	1,000	775	1,775
Comparison.									
Total for corresponding 13 days of previous year	5,903	2,245 0 0	16,395 0	1,139 0 0	34 0 0	3,418 0 0	1,022	722	1,744
Per mile of railway corresponding period of previous year ...	108	41 0 0	301 0	21 0 0	1 0 0	63 0 0	.....	.....	.....
Total to corresponding date of previous year	5,903	2,245 0 0	16,395 0	1,139 0 0	34 0 0	3,418 0 0	1,022	722	1,744

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for first 13 days of July 1889.			Receipts for first 12 days of July 1890.			Total receipts from 1st April 1889 to 13th July 1889.			Total receipts from 1st April 1890 to 12th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	3,418	63	27½	3,620	66	27½	28,997	71	27½	*28,706	70	.....	291

* Audited up to week ending 17th May 1890.

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAY.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the first 12 *days of July* 1890, *on* 315 *(a) miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the period on 315 miles open	60,959	21,115	2,54,102	26,253	3,627	50,995	8,522	11,578	20,100
Or per mile of railway ...	194	67	807	83	6	156*	.....	.....	.....
For previous weeks of half-year	.....	... ...	.....	.....	.....	.....	... ...	.....	.....
Total for one week ...	60,959	21,115	2,54,102	26,253	3,627	50,995	8,522	11,578	20,100
COMPARISON.									
Total for corresponding period of previous year on 273 miles open	81,054	30,385	3,76,374	31,545	6,236	68,166	9,224	10,815	20,039
Per mile of railway corresponding week of previous year ...	299	111	1,379	116	1	228*	.....	.....	.....
Total to corresponding date of previous year	81 054	30,385	3,76,374	31,545	6,236	68.166	9,224	10,815	20,039

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."
(a) Due to opening of *Sitamarhi Extension* up to Sitamarhi (42 miles beyond Durbhunga) for goods traffic only.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

Receipts for first 13 days of July 1889.			Receipts for first 12 days of July 1890.			Total receipts from 1st April 1889 to 13th July 1889.			Total receipts from 1st 30th April 1890 to 12th July 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	68,166	250	315	50,995	162	273	5,86,487	153	277·89	6,48,839	167	62,352	.....

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SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, AUGUST 6, 1890.

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RESOLUTION ON THE ANNUAL REPORT ON THE CALCUTTA MEDICAL INSTITUTIONS FOR THE YEAR 1889.

RESOLUTION.

MEDICAL.

Dated Calcutta, the 30th July 1890.

READ—

The Report on the Calcutta Medical Institutions for 1889.

Read also—

The Report for 1888 and the Resolution recorded upon it.

1. The year 1889 was not remarkable for any great increase or decrease in the recorded mortality; but it is necessary to bear in mind that changes have been recently made in the boundaries of the Suburbs, and that the figures relating to this area cannot be accurately compared with those for former years. The number of deaths from cholera in Calcutta and Howrah was far less numerous than in 1888, and in the Suburbs the decrease in the figures has been so large as to justify the belief that, even allowing for the change in boundaries, there was a real and substantial decrease in the actual prevalence of the disease. The mortality from small-pox, which in the years 1886, 1887 and 1888, had been trifling in comparison with that of former years, suddenly increased, though not sufficiently to cause serious anxiety. The death-rate from all causes in the town was 26·9, as against 26·97 in 1888, and in Howrah 22·71, against 21·68.

2. The following table shows the number of persons treated, as in-door or out-door patients, in the several hospitals during the past two years :—

	1889.				1888.			
	Total treated.			Died per mille of treated.	Total treated.			Died per mille of treated.
	In-door.	Out-door.	Total.		In-door.	Out-door.	Total.	
Medical College Hospital	6,665	50,182	56,847	80·82*	6,194	45,800	51,994	102·1*
General Hospital	3,190	.....	3,190	29·81	2,968	.....	2,968	87·38
Mayo Institutions	2,278	137,419	139,697	126·86	2,833	174,760	177,592	97·42
Campbell Hospital	8,252	.....	8,252	203·95	6,497	.....	6,497	275·94
Municipal Police Hospital	2,432	.....	2,432	8·22	2,735	.....	2,735	19·96
Total Calcutta Hospitals ...	22,817	187,601	210 418	119·91*	21,227	220,560	241,786	115·82*
Howrah General Hospital	1,513	9,609	11,122	217·44	1,385	10,525	11,910	247 65
Grand Total ...	24,330	197,210	221,540	120·13*	22,612	231,094	253,706	124·05*

* Reckoned on cases treated, exclusive of cases treated in the ophthalmic ward of the Medical College Hospital.

The increase in the number of in-door patients, although distributed among all the charitable institutions, except the Mayo Hospital and its dependencies, was very considerable in the Campbell Hospital, which is resorted to by paupers, and is attributed by the Inspector-General of Civil Hospitals to the high price of food-grains which prevailed in Calcutta and the surrounding districts for a great part of the year. The falling off in the number of out-door patients amounts to 37,350 in the Mayo Hospital, and is said to be due to the operation of a new rule under which the institution is closed on Sundays. Dr. Hilson takes exception to this practice, and remarks that it should not have been introduced without the sanction of Government, as it is likely to lead to great confusion in the preparation of annual statistics. This no doubt is true, but the point is not one in which the Government need interfere with the discretion of the Governors of the Mayo Hospital. In Howrah there was a decrease of 916 in the attendance of out-patients. In reference to the action of the Superintendent of the Howrah Hospital in refusing medicine and medical attendance to well-to-do out-patients, the Inspector-General observes that, "although some such restriction on the attendance of people of this class is much to be desired, the change should not be introduced without the sanction of Government, and, if made at all, it should be applicable to other charitable medical institutions in Calcutta." In this connection the attention of the Inspector-General will be drawn to the orders of Government contained in circular No. 1, dated the 1st January 1880, directing that, in the case of hospitals and dispensaries at the Presidency and in the Suburbs, where there are druggists' shops, and where advice and medicines can be obtained otherwise than at charitable institutions, out-door relief shall be, as far as possible, restricted to those whose circumstances do not admit of their seeking and obtaining it elsewhere on payment. These orders are moreover applicable to other hospitals in Calcutta and its suburbs.

3. Only 31,338 women and 51,439 children were treated in the various institutions to which the report refers in 1889 as compared with 36,030 women and 59,404 children in 1888. This falling off is undoubtedly due in no small measure to the very successful management of the Lady Dufferin Hospital by Mrs. Foggo. The death-rate in all Hospitals, excluding the Eye Infirmary, rose from 124 to 126, the rates for the Campbell and Howrah Hospitals, where paupers are treated, and into which many moribund and incurable cases are admitted, being, as usual, very high. Though the general death-rate was slightly higher than in the preceding year, which again showed a slight increase on the years 1887 and 1888, it was still much below the average of the years 1879—85.

4. Whatever form of treatment was adopted in cholera cases, about half the patients died, and the Lieutenant-Governor regrets to learn that the experiments made with the new remedy, salol, which has been tried with success by Dr. Nicholson in Patna, were not followed by encouraging results. Cases of enteric fever still continue rare in Calcutta, and remittent fever appears to be on the decrease.

5. There were 1,143 admissions for venereal diseases, against 1,064 in the previous year. In commenting on these figures, Dr. Hilson observes :—

"It should be borne in mind that the figures represent only the in-door patients, and that many more cases were treated either in the voluntary lock-

hospitals or in the out-door department of the other hospitals. Hitherto the system of classifying these affections has been extremely faulty, owing to the absence from the printed returns of any heading for venereal diseases other than those in group A, and the consequence has been that a large proportion of cases have been entered under other headings, and have not been taken into account when estimating the prevalence of venereal disease. This circumstance was pointed out during the year to the Government of India, with the result that the insertion of a heading as above mentioned has now received official sanction, and in future it will be possible to draw more correct conclusions regarding the extent to which these affections are prevalent."

6. The number of important surgical operations in the Calcutta institutions rose from 1,719 in 1888 to 1,926, and the minor operations from 20,264 to 20,933. There were 80 deaths after operation, the rate of mortality being 39 per mille (including the cases left over from the previous year) as compared with 46 per mille in 1888. The Lieutenant-Governor agrees with the Inspector-General in considering that these results are satisfactory evidence of the skill of the operators and of the care taken of the patients.

7. On the subject of entrusting a larger number of surgical operations to House Surgeons and senior students, Dr. Hilson observes:—"The Medical College Hospital is designed primarily for the treatment of the sick, but it is also intended for the practical instruction of natives in medicine and surgery, and it seems to me that more opportunities of performing operations might be given to the House Surgeons and advanced students. To the want of such opportunities is to be traced in some measure the small amount of surgical work performed in Bengal by Assistant Surgeons after they leave the College and begin to practise in the districts. I know it has been urged that House Surgeons and senior students in the large English Hospitals are only allowed the privilege of operating on patients to a very limited extent, and that the high reputation which the Medical College Hospital at present enjoys might suffer if a different course were followed, and many operations were performed by inexperienced and unskilful hands. To this it may be replied that India is not England, that the Indian student requires a more practical training than his English *confrère* to fit him for the active duties of his profession, and that there is no necessity to entrust him with other than the more simple operations, which might be satisfactorily performed under the immediate supervision of the senior officers of the surgical wards. At the Mayo Hospital, Lahore, the Assistant Surgeons and senior students are allowed to perform a considerable number of the major operations every year, and this system of training the students and enabling them to acquire confidence in their own capabilities does not seem to detract in any way from the usefulness and reputation of that institution." Sir Steuart Bayley would commend these observations to the careful consideration of the Medical College Council.

8. In the Eden Hospital 2,435 women and children were treated against 2,668 in the previous year, showing a decrease of 233 cases. Owing to want of accommodation when the building was under repairs, many applicants had to be refused admission. Of the 2,435 patients treated, 832 were Europeans and 1,603 natives. The deaths among the former amounted to 29, and among the latter to 56. The number of confinement cases fell from 513 in 1888 to 497; the mortality among this class of patients being 18 against 20 in 1888. The very few cases of septicæmia which occurred in the Hospital show that antiseptic precautions were carefully enforced in all cases of labour. The importance of these precautions has been fully impressed on the nurses, and it is hoped that no pains will be spared to eliminate this dangerous and fatal disease. The steam laundry sanctioned for this institution is not yet ready for use, owing to some delay in fitting it with the requisite machinery. Certain alterations made by Dr. Joubert in the classification of obstetric and gynæcological operations, are likely to produce some confusion in the annual returns, but appear, at the same time, to be unavoidable, as, in the absence of any recent orders on the subject, difficulty is often experienced in the classification of these operations. With a view to ensure one uniform system in the different hospitals, the Inspector-General suggests that the classification sanctioned in the Resolution of the Government of India, No. 129, dated the 21st February 1877, should be revised. The Lieutenant-Governor agrees in these remarks, and will consult

the Inspector-General of Civil Hospitals with a view to formulating the alterations which may be recommended to the Government of India.

9. In the Ezra Hospital 1,438 out-patients and 236 in-patients, most of whom were Jews, were treated during the year. Of the in-door patients 153 were cured, 43 relieved, 26 otherwise discharged, and 3 died. These figures show that the benefits conferred by this institution are fully appreciated by the Jewish community.

10. The Lieutenant-Governor is glad to find that the nurses employed in the hospitals continue to discharge their duties thoroughly and well, and has read with great pleasure the high praise accorded by Dr. Hilson to the ladies of the Clewer Sisterhood in speaking of the indefatigable services rendered by them in supervision and in tending the sick. Four permanent nurses were appointed this year to the Eden Hospital, as it was considered dangerous to rely exclusively on temporary nurses, many of whom do not possess sufficient experience in the work. Twelve European and Eurasian nurses passed their examination, two of them with great credit.

11. The invested capital of the Calcutta institutions shows a decrease of Rs. 8,500; securities to the value of Rs. 12,000 were withdrawn, and applied to the construction of a new moribund ward in the native department of the Howrah Hospital. The total income during the year, including the opening balance, amounted to Rs. 5,21,390; of this sum Rs. 3,46,858 were contributed by Government. The total expenditure, excluding the amount invested, was Rs. 5,01,970, against Rs. 4,27,082 in 1888. The increase was mainly due to a large expenditure on buildings and repairs in the Campbell Hospital, while the increase in the amount contributed by Government is due to the entire cost of the Police Hospital having been met from Provincial Funds. The Inspector-General remarks that the Calcutta Municipality contributed nothing towards the Mayo institutions, and that it is time to consider whether, in view of the fact that Government has undertaken all charges on account of Calcutta Police, the Municipality should not relieve the Government of its contribution towards the medical charities of the city. It has already been pointed out to Dr. Hilson that the entire relief afforded to the Municipality by the reduction of police estimates is hypothecated to the improvements of the Suburbs, and that, so far as this argument is concerned, it affords no ground for asking the Municipality to undertake all charges on account of the medical relief of the town.

12. The thanks of Government are due to Dr. Hilson for his careful and interesting report.

ORDER—Ordered that a copy of the Resolution, with a copy of the Report, be submitted to the Government of India for information.

Ordered also that a copy of the Resolution, be forwarded to the Inspector, General of Civil Hospitals for information and guidance; that a copy of the Resolution, and of the Report, be forwarded to the Chairman of the Calcutta Corporation and to the Commissioner of Police, Calcutta, for information, and that a copy of the Resolution be forwarded to the Governors of the Mayo Hospital and to the Commissioner of Burdwan for information.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secretary to the Govt. of Bengal.

RESOLUTION ON THE INLAND EMIGRATION REPORT FOR THE YEAR 1889.

GENERAL DEPARTMENT—INLAND EMIGRATION.

Calcutta, the 31st July, 1890.

RESOLUTION.

READ—

The Report of the Superintendent of Emigration, Calcutta, No. 937, dated 30th April, 1890, on Inland Emigration for the year 1889.

Contractors' emigrants.

Emigration to Assam is now conducted on three different systems, which work on lines so distinct that it is convenient to deal separately with the facts and figures as to each set forth in the report. That first established, of transmission by contractors, contemplates full supervision by Government over the character of recruiters, the execution of labour contracts, and the sanitary arrangements for the journey. Under it 1,835 labourers were engaged during the year 1889, of whom only 1,442 actually started, a number small by comparison with the results obtained on the rival systems, but considerably greater than that returned for the previous year. The increase is attributed by the Superintendent of Inland Emigration to the opening of a new depôt; and it is also to be remembered that there has been a reaction among exporters of labourers in favour of increased control by Government in this department. Eighty-two recruiters were licensed during the year, a number which appears large, as the majority of the emigrants engage in the 24-Pergunnahs and Burdwan, where they are strangers, having in all probability been really recruited in their own districts by men who have not taken out licenses. Two licenses were cancelled for very sufficient reasons. The number of desertions is considerable (168), as also that of discharges from depôt (132), and they suggest that the original work of selection was not performed with sufficient care in the interest of employers. The mortality—4 persons in depôt, or ·27 per cent., and 3 persons on the journey, or ·17 per cent.—is not excessive. It is, indeed, clear that under this system every sanitary precaution is taken, and that in this respect it works satisfactorily, whatever its drawbacks in other directions. The contractors' coolies, whether bound for the Surma Valley or for Assam Proper, follow the Goalundo route only.

Sirdari coolies.

2. In the case of labourers engaged by garden sirdars, the employer is primarily responsible for the character of the recruiter, and the arrangements for healthy depôts are less elaborate; but Government supervises the execution of labour contracts and the general arrangements for the journey. The number of labourers engaged by garden sirdars was 10,822, against 12,225 in 1888, a decline which, as the Superintendent observes, is undoubtedly due to the exceptional facilities afforded by the system of Assam contracts. The number of desertions is not known, or the total mortality, as the rule requiring the return of the way-bills which would afford information on these heads, is still very generally neglected. But such way-bills as have been received back from Cachar and Sylhet show that the losses on that route have been very great, 80 deaths having occurred among 2,564 emigrants, being 3·97 per cent. of the whole. This Government is at present in correspondence with the Assam Administration on the subject of effecting improvements on the sanitary supervision over emigrants to the Surma Valley.

Free emigrants.

3. The great majority of the emigrants proceed under the free system, that is to say, without supervision on the part of the State. Of these, 44,401 arrived during the year in Assam, making, with the members of the classes referred to above, a total of 57,058. The emigrants classed as "free" in the Bengal returns generally execute contracts under Act I of 1882 on entering Assam. Of 28,948 of this class of emigrants who passed through Dhubri, all but 780 made such engagements there. A certain amount of sanitary supervision is now exercised over emigration of this class under Bengal Act I (B.C.) of 1889, and the opinions expressed as to the working of that measure are all favourable.

The present report, though it does not show any outbreak of cholera, such as that which occurred on the railway route to Dhubri in 1886, still bears witness to a heavy mortality on that line, which indicates the necessity of increased precautions.

4. The Superintendent notices the fact that a rule was introduced during the year to ensure the provision of a cooked meal for emigrants at Parbatipore, a matter to which the Lieutenant-Governor attaches great importance. As has been indicated by the Magistrate of Rungpore, the rules on the subject of the food to be supplied on the railway journey are not enforced with sufficient strictness, the agents do not seem to be always aware of their responsibility in the matter, and the subordinate medical officers who inspect at certain stations do not notice instances of neglect. Since the close of the year a rule has been passed definitely imposing this duty on such officers. The Superintendent notices the following sanitary measures among others adopted during the year:—

"The supervision of the medical establishments provided for coolies at Kurigram and Kaunia was entrusted to the Medical Officer in charge of the Eastern Bengal State Railway. In the early part of the year the Lieutenant-Governor had under consideration the circumstances connected with the outbreaks of cholera among emigrants on their way to Assam and the means best calculated to check such epidemics.

In addition to the arrangements already sanctioned, viz.—

the remedying of the sanitary defects of the depôts at Raneegunge and in Chota Nagpore;

the construction of a cholera shed at, and the deputing of medical establishment to, Kurigram;

the transference of the medical agency from Magra to Naihati;

arrangements for the proper treatment of emigrants travelling by rail;

report by telegram of cases of cholera on the railway line, and at Goalundo for cases occurring on steamers,

it was further ordered that the private depôts in Calcutta and Raneegunge be inspected and sanitary defects remedied; that arrangements be made at Raneegunge for the disposal of the dead; that a cholera hospital be built at Raneegunge, and a medical officer be deputed to the Raneegunge and Sealdah Railway stations to examine emigrants and prevent those infected starting, and to ascertain the depôt from which the infected coolies came.

Similar inspection and medical assistance to the sick were afterwards ordered at Parbatipore, and it was arranged that the number of coolies to be despatched from stations on the East Indian Railway should be limited to 320 daily; that the carriage of coolies by goods train be discontinued, and the conveyance of coolies in goods wagons be not allowed until suitable wagons had been approved of by a Committee.

The Resolution of the 3rd September, 1889, sanctioned—

(1) The posting of a Civil Hospital Assistant to the charge of the coolie depôt at Raghunathpore in the Manbhoom district.

(2) The construction at Raghunathpore of a cholera mat hospital and the sinking of a masonry well.

(3) The adoption of similar measures at the municipal town of Jhaldah in Manbhoom.

(4) The placing of the Assistant Surgeon of the Giridih sub-division in charge of all the coolie depôts there, and the construction at that place of a cholera mat hospital, also to be in charge of that officer; an extra allowance of Rs. 20 being granted him on this account during the recruiting season.

(5) The adoption of similar arrangements at the sub-division of Govindpore, an extra allowance of Rs. 10 being likewise granted to the Civil Hospital Assistant during the recruiting season.

(6) The appointment of the Assistant Surgeon at Sara on a special allowance of Rs. 20 per mensem, with a compounder on a salary of Rs. 8 per mensem, to supervise the sanitary arrangements of rest-houses there.

A Committee having been formed to consider the question of the use of goods wagons for the conveyance of coolies, certain pattern wagons with improvements in ventilation and as to inlet and exit for passengers were inspected at Kaunia and pronounced suitable for coolies, and the use of such wagons was sanctioned.

A uniform fee of eight annas per head was directed to be charged for the treatment of sick coolies of all classes in railway hospitals.

In November last the inspection at Goalundo before embarkation of all casual coolies proceeding to Assam by the Assistant Surgeon of Goalundo, and the adoption of the arrangements as regards duration of halt and food, which were prescribed for coolies proceeding *vid* Dhubri, was ordered."

5. The general working of Act I of 1882 has to be separately reviewed during the current year, under the orders of the Secretary of State, and it therefore seems unnecessary to comment on this subject at present. Surgeon-Major Comins, the Superintendent of Inland Emigration, has administered the department with much discretion, and the successive Commissioners of Chota Nagpore (Mr. Stevens and Mr. Grimley) have given much attention to the subject, which is of great importance in that division. Mr. Skrine, Magistrate of Rungpore, also deserves mention for his attention to the sanitary requirements of emigrants passing through his district.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

ADMINISTRATION REPORT OF THE METEOROLOGICAL DEPARTMENT, 1889-90.

THE following report is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Govt. of Bengal.

The 30th July 1890.

IN accordance with the orders of Government the reports submitted during the past two years have given information regarding the more important changes and working in the department, the full details being reserved for the triennial report, which it is now my duty to prepare. The information given by Mr. Pedler, in his reports for the two past years, regarding the changes carried out in extending the Storm Signal Service, and also regarding the extensive system of changes effected by Mr. Eliot at the commencement of 1889, has been full and complete, and as it is therefore unnecessary that I should repeat the information, I shall confine my attention to the details concerning the ordinary working of the department.

The department was under Mr. Pedler's charge during the past year, with the exception of the period between 5th August and 29th October, when he was on leave. During these months I officiated for him.

The system of work commenced in 1889 has been maintained, and as the changes and improvements then carried out were very thorough, the work of the department has gone on smoothly throughout the past year, and no change of any sort has been required.

One observatory, viz., that at Tezpore in Assam, had to be closed during last year. On the 16th March 1889 the observer reported that the lock of the cage containing the thermometers had been broken open and all the thermometers stolen. As this observatory had not been working satisfactorily for some time, it was decided by the Meteorological Reporter to the Government of India not to issue new thermometers, but to close the observatory.

On the other hand, a new observatory has been started at Mozufferpore in Bengal. In June 1889 it was represented that regular meteorological observations from this station would be of great service to the indigo-planting community, and after due enquiry on this point, Babu C. C. Chatterjee was deputed to select a site and make other arrangements to establish a regular meteorological observatory at Mozufferpore. The best available site was selected, an observer appointed and trained, and with the assistance of the Executive Engineer, Mr. Norman, the shed, &c., were constructed. The Magistrate kindly consented to act as Superintendent of the Observatory. When everything was ready, Mr. Pedler visited Mozufferpore, and, as he found all in a very satisfactory condition, ordered the commencement of the regular work of observation. The first report received was on the 3rd April 1890.

The following table gives the number of stations reporting observations to this department during the past three years:—

Observatories.

1887-88.		1888-89.		1889-90.	
1st Class Imperial ...	1	1st Class Imperial ...	1	1st Class Imperial ...	1
2nd „ „ ...	2	2nd „ „ ...	15	2nd „ „ ...	15
3rd „ „ ...	49	3rd „ „ ...	35	3rd „ „ ...	35
Other stations reporting for the Storm Warning Service only	10	Other stations reporting for the Storm Warning Service only	11	Other stations reporting for the Storm Warning Service only	10

Returns were also received from four voluntary observatories, viz., Tura, Demagiri, Shortt's Island, and Lungleh. The two last stations commenced observations from 1st April and 9th July 1889, respectively.

Vizagapatam is an independent observatory under the direction of Mr. A. V. Nursing Row, who has continued to favour this department with his observations which are received with great punctuality. The department is also now indebted to him for special storm telegrams, which he kindly sends us whenever required in response to our telegraphic request. The thanks of this department are therefore again due to Mr. Nursing Row for his continued valuable assistance in connection with the Bay of Bengal Storm Signal Service.

The following table gives a list of the observatories which have been working during the last three years, together with the names of the observers:—

Personnel of Observatories in Bengal and Assam during the years 1887-88, 1888-89, *and* 1889-90.

	1887-88.		1888-89.		1889-90.		
	Name of observers.	Allowance.	Names of observers.	Allowance.	Names of observers.	Allowance.	
		Rs.		Rs.		Rs.	
Second Class.							
Akyab	J. J. Brown	15	J. J. Brown	15	J. J. Brown	23	B + C.
Berhampore ...	M. N. Roy	15	M. N. Roy	15	M. N. Roy	18	B.
Burdwan	M. P. Chowdhury ...	15	M. P. Chowdhury ... / P. C. Mookerjee ...	15	M. P. Chowdhury ...	18	B.
Chittagong ...	M. McSweeny ... / J. E. Gabriel ... / J. D. McGregor .	25	J. D. McGregor ... / D. McDonough ... / W. Tocher	25	J. Mackenzie ... / W. Tocher	27	B + C + D.
Cuttack ...	F. Stone ... / F. J. Bennett ...	25	F. J. Bennett	25	F. J. Bennett	18	B.
Dacca	T. W. DeSouza ...	15	T. W. DeSouza ...	15	T. W. DeSouza ...	18	B.
Darjeeling	F. N. Rushton ...	25	E. G. McLean ... / P. K. Vaughan ...	25	P. K. Vaughan ...	25	B + D + E.
Dhubri ...	B. N. Banerjee, Head Observer. / Kafayut Ulla, Assistant Observer.	30 / 10	B. N. Banerjee, Head Observer. / A. K. Sen, Assistant Observer.	30 / 10	B. N. Banerjee ... / A. K. Sen	25	B + D + E.
Durbhunga ...	J. C. Banerjee	Voluntary.	J. C. Banerjee	Voluntary.	J. C. Banerjee	10	A.
False Point ...	J. Loudon	20	J. Loudon	20	J. Loudon	23	B + C.
Hazaribagh ...	Nuthoo Lal	20	Nuthoo Lal	20	Nuthoo Lal	25	B + D + E.
Patna	Surjan Sing	30	Surjan Sing	30	Surjan Sing	18	B.
Saugor Island ...	R. H. Peters	45	R. H. Peters	45	R. H. Peters ... ... / F. A. Thomas ...	45	B + C + D + E (special case).
Sibsagar	D. D. Barua	30	D. D. Barua	30	D. D. Barua	25	B + E + F (special case).
Silchar	R. C. Bhadra	15	R. C. Bhadra	15	R. C. Bhadra	20	B + F.
Third Class.							
Arrah	S. C. Banerjee	10	S. C. Banerjee	10	F. R. Green	10	A.
Balasore	R. M. Das	10	R. M. Das	10	R. M. Das	15	A + C.
Bankoora	B. N. Chatterjee ...	Voluntary.	B. N. Chatterjee ...	Voluntary.	B. N. Chatterjee ...	10	A.
Bhagulpore ...	J. C. Bhaduri	10	J. C. Bhaduri ... / B. L. Misser	10	B. L. Misser	10	A.
Bogra	Gangadhar Barik ...	10	Gangadhar Barik ...	10	Gangadhar Barik ...	10	A.
Burrisaul	K. N. Roy	10	K. N. Roy	10	K. N. Roy	15	A + C.
Buxar	B. N. Guha	10	B. N. Guha	10	B. N. Guha	10	A.
Chupra	K. P. Moitra	10	K. P. Moitra	10	K. P. Moitra .. ... / K. C. Das	10	A.
Chybassa	M. L. Sircar	10	M. L. Sircar	10	M. L. Sircar	10	A.
Cocoanada	C. J. M. Gaetano ...	15	C. J. M. Gaetano ..	15	C. J. M. Gaetano ...	15	A + C.
Comillah ...	N. C. Biswas ... ... / B. N. Deb	10	B. N. Deb	10	B. N. Deb ... ... / Abdus Samed... ...	10	A.
Dehree	P. L. Sen	10	P. L. Sen	10	P. L. Sen	10	A.
Dinagepore	Abdul Aziz Khan ...	10	Abdul Aziz Khan ...	10	Abdul Aziz Khan ...	10	A.
Furreedpore	N. C. Mozoomdar ... / R. L. Sen	10	N. C. Mozoomdar ...	10	N. C. Mozoomdar ...	10	A.
Gopalpore	J. Narain Moorty Naidoo.	15	J. Narain Moorty Naidoo.	15	J. Narain Moorty Naidoo.	15	A + C.
Gya	Mukund Lal	15	Mukund Lal	15	Mukund Lal	10	A.
Jessore	P. N. Roy Chowdhury	15	P. N. Roy Chowdhury	15	P. N. Roy Chowdhury	10	A.
Julpigoree	B. M. Chatterjee ...	10	B. M. Chatterjee ... / P. K. Mozoomdar ...	10	P. K. Mozoomdar ... / K. C. Gangooly .. / B. B. Ghosh	10	A.
Krishnaghur ...	P. L. Ghosh	10	P. L. Ghosh	10	P. L. Ghosh	10	A.
Madras (Port office)	.....	...	J. R. Gonsalves ...	10	J. R. Gonsalves ...	10	A.
Maldah	M. L. Das	10	M. L. Das	10	M. L. Das	10	A.
Midnapore	M. N. Seal	10	M. N. Seal	10	M. N. Seal	10	A.
Motiharee	C. Narain Swami ...	10	C. Narain Swami ... / C. J. Clarke	10	C. J. Clarke ... ... / Mohadeo Pershad...	10	A.
Mymensingh	J. K. Chakravarti ... / S. C. Saha	10	S. C. Saha	10	S. C. Saha	10	A.
Nellore	.....	...	D. Conn	10	D. Conn	15	A + C.
Noakholly ...	B. K. Sen ... ... / G. C. Gangooly ...	10	G. C. Gangooly ...	10	D. N. Misser... ... / G. C. Pal	10	A.
Nya Doomka ...	D. N. Mookerjee ...	10	D. N. Mookerjee ...	10	D. N. Mookerjee ...	10	A.
Pooree	....	...	M. Francis	10	M. Francis	15	A + C.
Purneah	G. C. Chunder... ...	15	G. C. Chunder... ...	1	G. C. Chunder ... / J. N. Mozoomdar...	10	A.
Rampore Beauleah.	G. C. Chatterjee ... / R. T. Gangooly ...	10	D. C. Roy ... ... / S. R. Banerjee ...	10	S. R. Banerjee... ...	10	A.
Ranchee	S. Mookerjee	10	S. Mookerjee	10	S. Mookerjee	10	A.
Raneegunge ...	R. R. Ghosh	10	R. R. Ghosh	10	R. R. Ghosh	10	A.
Rungpore	B. K. Bose	10	D. N. Gupta ... ... / N. C. Pal	10	N. C. Pal ... ... / B. C. Mitra	10	A.
Serajgunj	H. L. Seal	10	H. L. Seal	10	H. L. Seal	10	A.
Tavoy	.....	...	T. Cribb	10	D. C. Simpson ...	15	A + C.
Tespore ...	Mir Sabdar Ali ... / N. C. Sarkar	15	Mir Sabdar Ali ... / Rup Lal	15	Observatory closed from 16th April 1889.		

	Rs.
A.—Observers who take 8 A.M. observations...	10
B.— Ditto ditto 8 A.M. 10 A.M. and 4 P.M. observations ...	18
C.— Ditto ditto storm observations	5
D.— Ditto who are in charge of automatic wind instruments ...	4
E.— Ditto who take special observations of sun thermometers ...	3
F.— Ditto in charge of seismographs	2

	1887-88.		1888-89.		1889-90.		
	Names of observers.	Allowance.	Names of observers.	Allowance.	Names of observers.	Allowance.	
Voluntary.							
Dewagiri	G. C. Bhar	Voluntary.	G. C. Bhar	Voluntary.	G. C. Bhar ... ... K. P. Kumar	Voluntary.	
Lunglah	.....	...	.....	...	J. K. Sen ... ... S. C. Chatterjee ... N. C. Gupta	Ditto	Commenced observations from 9th July 1889.
Shortt's Island ...	....	...	.....	.	W. Tasker	Ditto	Commenced observations from 1st April 1889.
Tura ...	A Nyem ... ... B. R. Das	Voluntary.	B. R. Das ... .. A. Nyem	Voluntary.	A Nyem	Ditto	

NOTE.—The classification of observatories as given in this table dates from 1st January 1889. Previous to this date Dhubri and Saugor Island only were 2nd class and the rest third class observatories. The allowance also was re-arranged, and from 1st January 1889 the allowance was fixed as given for the year 1889-90.

Inspection of observatories.—The following stations were inspected :—

STATIONS INSPECTED.	1887-88.	1888-89.	1889-90.
	Date of inspection.	Date of inspection.	Date of inspection.
Akyab	28th November 1887 ...	...	.....
Arrah	.....	13th and 14th March 1889.	.....
Bankoora	21st to 23rd August 1887	.....	4th April 1889.
Burrisaul	4th January 1888 ...	.....	.....
Berhampore	12th August 1887 ...	.....	.....
Bhagulpore	9th and 10th August 1887	11th August 1888 ...	20th and 21st August and 6th December 1889.
Bogra	.....	16th June 1888 ...	.....
Burdwan	13th August 1887 and 13th January 1888.	.....	12th to 15th August 1889 and 19th January 1890.
Buxar	.....	23rd October 1888 ...	.....
Chittagong	26th November 1887 ...	.....	.....
Chupra	25th January 1888 ...	24th March 1889 ...	1st and 2nd September 1889.
Comillah	10th January 1888 ...	.....	.....
Dacca	12th January 1888 ...	5th February 1889 ...	.....
Darjeeling	28th to 31st March 1888	.....	14th to 17th October 1889.
Dhubri	21st March 1888 ...	.....	22nd to 24th October 1889.
Dinageporo	.....	12th June 1888 ...	.....
Durbhunga	17th January 1888 ...	22nd March 1889 ...	23rd August 1889.
Furreedpore	16th January 1888 ...	.....	.....
Gya	26th to 29th January 1888	24th October 1888 ...	6th September 1889.
Hazaribagh	....	.....	10th April 1889.
Jessore	6th September 1887 ...	24th June 1888 and 8th February 1889.	.....
Julpigoree	19th March 1888 ...	5th, 6th, and 9th June 1888.	19th October 1889 and 29th March 1890.
Krishnaghur ...	18th March 1888 ...	21st June 1888 ...	.....
Maldah	15th December 1887 ...	.....	.....
Midnapore	22nd May 1887 ...	.....	.....
Motiharee	16th January 1888 ...	23rd March 1889 ...	30th August 1889.
Mymensingh ...	14th January 1888 ...	3rd February 1889 ...	.....
Noakhally	5th to 7th January 1888	.....	.....
Nya Doomka ...	5th August 1887 ...	.....	.....
Patna	26th March 1888 ...	9th October 1888 ...	5th and 6th September 1889.
Purneah	18th and 19th December 1887.	.....	17th and 18th August 1889 and 30th March 1890.
Rampore Beauleah ...	.....	19th June 1888 ..	.....
Raneegunge ...	2nd August 1887 and 18th January 1888.	25th October 1888 ...	.....
Rungpore	.....	10th June 1888 ...	20th October 1889 and 31st March 1890.

Akyab—Was visited by Mr. Eliot in November 1887 to decide on the question of removing the observatory to a better site, made necessary by the erection of the new telegraph office building close to the thermometer shed. No very satisfactory site was available, but as it was very desirable to retain the observatory at the telegraph office, a new position about as far from the new telegraph office as the observatory was from the old office was chosen. The anemometer was continued at the old site, but the staging was raised to a height of about 36 feet above the ground.

Arrah—Was visited by Mr. Pedler on 25th March 1888. The instruments were all in good order except the barometer. A set of comparative readings made with a standard taken from Calcutta shewed that the barometer was working sluggishly, though the correction had scarcely changed. Another barometer was supplied, and the old one sent back to Calcutta for verification. The observer was well qualified for his duties, and the general condition of the observatory very satisfactory. A second visit was made on the 13th and 14th March 1889 chiefly for the purpose of having the observatory transferred to the Telegraph office, as the observer was unable to take the observations at 8 A.M. A new site for the thermometer shed was selected, and it had the advantage of being more open than the previous position. The new site for the wind instruments, however, was not quite so good. Observations were first taken in the new positions on 1st April 1889.

Bankoora—Observatory was inspected on 21st to 23rd August 1887 by the head clerk, and again on the 4th April 1889 by Mr. Pedler. At the time of the first visit the observatory was in a very unsatisfactory condition, the instruments being nearly all out of order, and the observer ignorant of the rules laid down for his guidance. The instruments were put right so far as was possible at the time, and the local overseer of road cess kindly undertook to see that the wind vane was properly set, and the Magistrate, that the observer made himself acquainted with his instructions.

The second visit was made shortly before 8A.M., the hour for taking the observations, and the observer was found to attend punctually. The observatory was in very good order, all the instruments being clean, and properly set, with the exception of the wind vane, which was not quite perpendicular. The observer was slow in reading the barometer. The observatory was every way in a much better condition than at the previous visit.

Burrisaul—Observatory visited on 4th January 1888, was found to be in very good order. The observer read the instruments quickly and correctly, and kept them clean.

Berhampore—Was visited on the 12th August 1887. The observatory and instruments were in satisfactory order.

Bhagulpore—Observatory has been inspected four times during the past three years, two of the visits being very recent—in August of last year by Babu C. C. Chatterjee, Inspector of Observatories, and again by Mr. Eliot in December. When inspected on 9th and 10th August 1887 the instruments were found to be dusty, but otherwise in good condition.

In August 1889 the shed was found to be in want of repair, and an estimate was prepared for sanction. Comparative readings of the barometer were taken during the two days, with fairly satisfactory results. The thermometers were in good order, but the rain-gauge, anemometer, and wind vane were all unsatisfactory. The rain-gauge was not horizontal and only 6½ inches above the ground, to remedy which a level masonry platform was ordered to be made. The wheels of the anemometer were worn and the wind vane was not working smoothly. Both instruments were replaced by new ones. When the observatory was started in 1883 there were some low trees in the neighbourhood of the wind instruments, and these were found to have grown so as to interfere with the free circulation of the air. At the instance of the Inspector the landlord kindly consented to have the trees cut down. When inspected by Mr. Eliot in December the trees had been removed and the exposure was quite satisfactory. In other respects the observatory was satisfactory, the orders given in August having been carried out. The observer is intelligent, but not very careful and his readings are hence occasionally doubtful.

Bogra—Observatory, inspected on 16th June 1888, was in very good order, various improvements having been made on the shed and a masonry platform made for the rain-gauge. Comparative readings taken with the Calcutta standard showed a very slight error in the station barometer.

Burdwan—Observatory was inspected on 13th August 1887, and again on 13th January 1888. On both occasions the instruments were in good order, and repairs, found necessary on the first visit, were carried out before the second. A new barometer had been supplied shortly before Mr. Pedler's visit on 13th January and comparative readings taken by him shewed that the correction had not varied. Further inspection was not considered necessary

till August 1889 when Babu C. C. Chatterjee went for the purpose of changing the positions of the instruments requiring good exposure, viz., the wind instruments and the rain-gauge. Arrangements were made for altering their positions, and the other instruments were inspected and found in very good order. Comparative readings of the barometer and thermometers were also taken. Objection was afterwards taken by the Civil Surgeon to the position fixed for the wind instruments as being too near the edge of the roof of the registry office building. He suggested that they should be fixed over one of the central walls, and to ensure that there would be no loss of exposure, Mr. Pedler went on the 19th January 1890 to examine the proposed sites. As he had no objection to the central position, the pillars were erected and the instruments removed there on 31st January. The height of the anemometer has been increased from 16 feet to 24 feet, and it can be easily reached for reading and oiling. The exposure is not altogether satisfactory, but it is the best that can be got in the neighbourhood. The fence made round the thermometer shed also encloses the rain-gauge, which is at least five feet from the fence.

Buxar—Was visited by Mr. Pedler on 23rd October 1888. The wet bulb thermometer had been broken the day before, but otherwise the thermometers were in good order. The barometer was not so satisfactory, the mercury in the cistern having become oxidised, and in the tube above the column the mercury was found to have evaporated and adhered in small drops to the glass. Being a Fortin's principle barometer, the evaporation did not affect its accuracy, but the possibility of condensation of mercury in this way is of the greatest importance in the use of instruments constructed on the Kew principle, as any readings taken from one in such a condition would be altogether worthless, a considerable unknown error being introduced. The anemometer was working well, but the wind vane, one of the Roorkee pattern, was working very heavily, chiefly from want of oil. The rain-gauge was rusty, holes having been eaten right through the outer tin case.

Chittagong—Has not been inspected since 1887, when Mr. Eliot found all the instruments in good order. The observer continued to give satisfaction until the last year, when Mr. Tocher, the present Telegraph Master, took over charge of the Chittagong Telegraph Office, who, considering his other duties required all his time, gave over charge to Mr. Mackenzie, a telegraph signaller, on the 1st of April 1889. According to the orders of the Director-General of Telegraphs, the signaller ought to have a thorough knowledge of the methods of reading the instruments and of preparing the code telegram, but Mr. Mackenzie has, throughout the period during which he has held the appointment of observer, made numerous mistakes, and, on the occasion of stormy weather in the neighbourhood of Chittagong in October of last year failed to be of the slightest assistance from his ignorance of the method of framing the telegram by means of the storm signal code used in forwarding additional observations. These observations were of the greatest importance, as any action taken in warning the port of Chittagong would have largely depended on them. This is only one of several cases that have lately occurred when the permanent observer has given over charge before his successor has acquired the necessary facility in reading instruments, or a competent knowledge of the working of an observatory. In some cases no fault can be found with the out-going observer, as his relieving officer may have come from a distance, and time not been available to give full instruction, or to see that he had previously acquired the requisite skill. This excuse cannot be applied in the Chittagong case, as Mr. Mackenzie had been a signaller there for some time, and had either from ignorance or carelessness disobeyed the order of the Director-General of Telegraphs.

In connection with this, I may mention that during the monsoon season last year, the Serajgunge observer went on leave, and his successor was so unqualified for the work and so unwilling to do it, that in the absence of any opportunity of instructing him, the observatory had to be closed until the permanent observer's return.

Later at the very end of the year 1889-90 there was a change of observers at Diamond Island, and the new observer supplied information so out of agreement with the other stations that there was no hesitation in rejecting all his observations. Unfortunately, while he was still on duty, the first storm of

the present season occurred in the near neighbourhood of that station, and knowing the character of his work, I was at a loss to say whether the storm was severe or not.

I have mentioned these three instances which have all occurred within six months to shew the risk of a partial failure of the storm warning system from a man of incompetent knowledge having to take over charge as observer. I understand that quite recently the Meteorological Reporter to the Government of India has been in communication with the Director-General of Telegraphs with a view to have the order revived, viz., that signallers make themselves thoroughly acquainted with the work so as to be able at short notice to assume the responsibility of supplying correct information.

Chupra—Was visited on the 25th January 1888 by Mr. Eliot. The observatory was in every way satisfactory, except that the observer had taken the readings by Madras time instead of local time. The correction for local time was given him, and the rain-gauge removed from the compound of the Road Cess Office to that of the circuit-house. The next visit made was by Mr. Pedler on the 24th March 1889, when he found the observatory in a disgraceful condition and the observer very careless in the performance of his duties. The instruments were found to be more or less out of order and the records very badly kept. Arrangements were then made to transfer the observatory from the Public Works Department to the Telegraph Department, and in September of the same year the Inspector of Observatories was sent to see the observatory started under the superintendence of the Telegraph Department, the Telegraph Master becoming observer. A new shed had been built on the grounds of the Telegraph Office, and some minor defects in it were pointed out and remedied as far as possible. The barometer was removed from the Collector's room to the signal-room, and the difference of level of the two positions ascertained. It was also arranged that the old observer should continue on duty for one month, so as to allow sufficient time for the telegraph master to become thoroughly acquainted with his duties.

Comillah—Observatory was inspected by Babu C. C. Chatterjee in January 1888. The permanent observer was away without leave, and the acting one did not understand his work. He was thoroughly drilled. The shed was in a shaky condition, but was repaired shortly after. The instruments were all found in good order, any small defects noticed being removed by the Inspector. But the position of the shed having been found faulty, another on a better site was built and comparative observations carried on for a year up to 30th April 1889. The observations from this observatory, more especially those of the barometer, are, however, frequently found to be erroneous.

Dacca—[illegible]as visited twice—by Babu C. C. Chatterjee on 12th January 1888 and by Mr. Pedler on 5th February 1889. The instruments were found in excellent order on both occasions, and the observer has in every way given satisfaction. The rain-gauge has given some trouble. At first it was apt to be flooded by the river, and Babu C. C. Chatterjee had it removed, but in its new position some neighbouring trees and the telegraph buildings sheltered it to such an extent that Mr. Pedler had to fix a new site.

Darjeeling—Observatory was in a satisfactory condition when visited by Mr. Pedler on 28th to 31st March 1888. The new Beckley's anemograph had just been erected, and the first difficulties got over, so that Mr. Pedler expected valuable results from the instrument. Though the wind velocity portion of the apparatus was working very freely at that time, it was very much out of order when the observatory was next inspected by Mr. Gilliland about the middle of October 1889. It worked only with winds of over ten miles an hour, and the adjustment of the direction recorder was also unsatisfactory. The part of the instrument exposed to the weather had suffered to such an extent during the previous eighteen months, that it had to be dismantled and thoroughly cleaned. The anemometer, wind vane, sun thermometers, and the barometer were also found to be somewhat defective, and were put right as far as possible.

Dhubri—Observatory inspected 21st March 1888 and 22nd to 24th October 1889. At the time of the first visit made by Mr. Pedler, the instruments were in good order with the exception of the anemometer, wind vane, and anemograph. The velocity part of the anemograph was working very freely, but that giving the direction record worked very heavily, and was so adjusted [illegible]

direction given was the opposite of what it ought to have been. The defects were remedied, but as the anemograph house was undergoing repairs, it was impossible at that time to have the instruments thoroughly cleaned.

During the past year nearly all the observers in North Bengal were changed, and the new men being not thoroughly instructed in the reading of the instruments, advantage was taken of the October college vacation to send Mr. Gilliland to find out to what certain small errors, which were daily apparent, more especially in the readings of the barometer, were due. The observatories which urgently required this visit were Julpigoree, Rungpore, and Dhubri, and as these observatories are in the same part of the country, the observations taken at one frequently corroborated those of another though all the readings were unreliable. I may state that the errors usually made are of two kinds, one from careless reading of the scale, whereby the correct graduation is not taken though the instrument be properly adjusted; second, where the instrument is badly adjusted, but the reading otherwise correctly taken. The first is entirely due to carelessness on the part of the observer, and is generally punished by a fine, the second probably to ignorance, and it was to remove errors of the second kind that these observatories had to be visited. It was found that none of these observers knew how to lower the vernier until it was just touching the column, and that they were also not in the habit of keeping the eye in a horizontal line with the top of the mercury. These faults are of the greatest importance because they occur so frequently in the case of new observers, and are only found out after the observer, who has given over charge, has left the station, so that there is no possibility of removing the errors except by sending some one from the head office. These remarks, though given under the head of Dhubri observatory, are equally applicable to Julpigoree, Rungpore, and some others. Though these errors were of daily occurrence during the monsoon, it will be seen in a table given below that very few errors of the other kind, that is the result of carelessness, have been made by the observer at Dhubri.

Dinagepore—Visited on 12th June 1888. The observatory was in good order, and the observer punctual in taking observations, but being at that time lately appointed, he was unable to read the barometer with accuracy. The method of adjustment was fully explained to him, and a series of readings taken which shewed that the error of the barometer had not altered.

Durbhunga—Observatory was inspected on the 17th January 1888, and twice in 1889—on the 22nd March and 23rd August. The observatory remained a voluntary one till the 1st January 1889 when an allowance of Rs. 10 a month was made, though this was not full remuneration for the observations supplied according to the ordinary rate of payment of observers in the department. Just before the first visit the shed had been dismantled and the thermometers removed to a room in the hospital, and they remained there till very recently when a new shed was finally erected. During this interval the thermometer readings were worthless, as they gave the temperature of the room and not that of the open air, and they have therefore been rejected in forming averages. The instruments were generally found to be dusty, but the barometer, though old, was capable of giving accurate readings.

Furreedpore—Observatory, visited on the 16th January 1888, was found to be in fair condition, but the observer was in want of instruction on the adjustment of the barometer.

Gya—Observatory, when inspected from 26th to 29th January 1888 by Mr. Eliot, was in fair condition. The rain-gauge and anemometer wanted repair or renewal, but the thermometers were in good condition. The chief object of the visit was to find out the cause of the discrepancies in the barometer readings, and after a series of comparative readings it was found that the correction was ·016 inch instead of ·003 inch, as obtained at Alipore. When next visited on the 24th October 1888, it was necessary to make arrangements for moving the instruments nearer the new cutcherry. The wind instruments were fixed on the highest part of the roof of the cutcherry parapet, and the thermometer shed was placed in an open space near the treasury guard. The instruments were all found to be in good order. In September 1889 the observatory was again found to be in good condition, except that the barometer tube had become loose in the case, but the error resulting was inappreciable.

Hazaribagh—Observatory was inspected on 10th April 1889 mainly for the purpose of arranging for the mounting of the new Beckley's anemograph. The instruments, records, and thermometer shed were all in excellent condition. "Arrangements were made in consultation with Dr. Moorhead and the Public Works Department subordinates as to strengthening the anemograph house to receive the new instrument." Though all preliminaries were then seen to, the work was never carried out by the Public Works authorities, and as a Beckley's anemograph was lately urgently required at Allahabad, Mr. Eliot ordered the transfer of the one at Hazaribagh, so that no further anemograms will be received from this station.

Jessore—Observatory was inspected three times, and on each occasion was in fairly good order, but when visited by Mr. Pedler on the 8th February 1889 the observer was twelve minutes late in arriving to take the observations, a matter of considerable importance, as at 8 A.M., all the meteorological elements are rapidly changing.

Julpigoree—Observatory, when inspected by Mr. Pedler in March 1888, was in a most unsatisfactory condition, the observer having taken leave without informing the Calcutta office, and left his duties to be performed by a man very ignorant of the methods of adjusting and reading the instruments. On Mr. Pedler's recommendation the observatory was transferred to the local post office, and with the consent of the Postmaster-General, the Postmaster was appointed observer. Babu C. C. Chatterjee was sent in June of the same year to train the new observer and to select the most suitable positions for the thermometer shed, the barometer and the wind instruments. A change of observers was made in the following year, and from that time very unsatisfactory reports were made for the reason already stated in connection with Dhubri observatory. After Mr. Gilliland's visit the barometer readings were more satisfactory, but those of the maximum thermometer have still been unreliable from the observer's failing to understand the method of setting the instrument after reading.

Krishnaghur—Observatory was inspected twice during 1888, and was found in satisfactory condition.

Maldah—Was visited in December 1887, the readings reported being unreliable. The instruments were in very bad order, and the observer unable to read them with accuracy. He received full instructions as to the method of procedure, and has continued since then to give more satisfaction, but, as shown by the table given below, he is not one of the most careful observers.

Midnapore—Had to be visited in May 1887 because of the very low readings of the barometer. The instrument was found to be in bad order, but the observer was also very careless in his adjustment. He benefited by the instruction then given, so that further inspection visits have not been considered necessary, but there is still a certain amount of carelessness shown in his returns.

Motiharee—Observatory was in a very satisfactory condition when visited by Mr. Pedler in January 1888 and March 1889. The object of the second visit was to arrange for the handing over of the observatory to the Civil Surgeon from the 1st April 1889, his clerk becoming observer. The instruments were in the same excellent order as when previously inspected, and Mr. Pedler has recorded that "Mr. Clarke the Supervisor, Public Works Department, must be thanked for the general care he has shewn in the charge of the observatory." As the new observer was not well qualified for the work of observing, a third visit was made by Babu C. C. Chatterjee, who gave the required instruction as to reading the barometer and wind vane, and saw that the instruments were thoroughly cleaned and oiled.

Mymensingh—Observatory was inspected on 14th January 1888 and 3rd February 1889. The instruments were in fair condition on both occasions, but the observer had, each time, difficulties which could only have been removed by verbal instruction.

Noakhally—Visited from 5th to 7th January 1888. The observer was found to be reading the barometer too low from wrong adjustment of the vernier. The instruments were in fair order, with the exception of the wind vane and anemometer, which were replaced by new ones.

Nya Doomka—Observatory was inspected in August 1887 by Babu C. C. Chatterjee. The observer read his instruments quickly and correctly. Most of

the instruments had been well kept. The Inspector removed all defects, and the new instruments wanted were supplied immediately after his return to Calcutta.

Patna—Observatory has been inspected three times—in March and October 1888 and September 1889. The instruments were in good order, except where they had become unserviceable from wear, in which cases new ones were supplied. On the occasion of Mr. Pedler's visit in October 1888, the observer was more than half an hour late in arriving to take the observations, and as the records at the telegraph office shewed that the telegrams to Simla were invariably late in being sent for despatch, the observer was fined.

Purneah—Observatory was inspected in December 1887, August 1889, and March 1890. When first inspected the observer took the readings quickly and and correctly, but the observatory was not in good order in several important particulars.

Rampore Beauleah—Was visited on the 19th June 1888. The instruments were in very bad order, from want of attention on the part of the observer, the thermometers being unserviceable, and the wind instruments working with a great deal too much friction from want of oil. He read the barometer very slowly and with doubtful accuracy. During the past year the results have been more satisfactory, and very few careless errors have been discovered.

Raneegunge—Observatory was inspected in August 1887 and in January and October 1888. The instruments were mostly in good order, and the observer was found to read the instruments quickly and correctly.

Rungpore—Inspected in June 1888, October 1889, and March 1890. During the first year the observatory was in a most unsatisfactory condition, the observer shewing great want of punctuality and being very careless in keeping the instruments in order. As the shed was very near the post-office, the Postmaster was appointed observer. But when the observatory was next visited by Mr. Gilliland in October 1889, the observer was found to be reading the barometer very inaccurately, not altogether from carelessness, as he was very willing to learn but because he had failed to understand from the *Vade Mecum*, the method of correctly setting the instrument. As far as time would permit, he was drilled in setting and reading, and when Mr. Pedler inspected the observatory in March last, he found the observer read only a few thousandths of an inch too low, probably owing to somewhat defective vision.

It will be seen from the preceding remarks that in many cases the defective observations are not due to carelessness so much as to an imperfect knowledge of the duties, for which the observer cannot be said to be blameworthy, unless he has had previous opportunities of direct instruction. The only way of introducing improvement is to have an officer who may be in a position to go to any observatory when required, and to stay there instructing the observer till there can be no further doubt as to his being able to read all the instruments with the utmost accuracy.

Errors in observations.

In addition to these errors arising from ignorance on the part of observers, frequent careless errors are made by some. These are generally discovered by comparison at the head office, and from the records, I have arranged in the following table the observatories according to the number of errors made during the past year, partly to show how careless some observers are, and partly to show which observers are making every effort to give satisfaction :—

Under five mistakes.	Between five and ten mistakes.	Between ten and twenty mistakes.	Over twenty mistakes.
Akyab.	Arrah.	Bhagulpore.	Balasore.
Berhampore.	Bankoora.	Chittagong.	Burrisaul.
Burdwan.	Bogra.	Chupra.	Comillah.
Buxar.	Cuttack.	Dacca.	Julpigoree.
Chybassa.	Dehree.	Darjeeling.	Pooree.
Coconada.	Dinagepore.	Furreedpore.	Rungpore.
Dhubri.	Durbhunga.	Maldah.	
Gopalpore.	False Point.	Midnapore.	
Hazaribagh.	Gya.	Nellore.	
Krishnagtaur.	Jessore.	Noakholly.	
Madras (Port Office).	Motiharee.		
Nya Doomka.	Mymensingh,		
Patna.	Purneah.		

Under five mistakes.	Between five and ten mistakes.	Between ten and twenty mistakes.	Over twenty mistakes.
Rampore Beauleah. Ranchee. Serajgunj. Sibsagar. Silchar. Tavoy.	Raneegunge. Saugor Island.		

To make the observers more careful, a system of fining has been employed for some time, and the observers who have been most frequently punished during the year ending March 1890, are those at Balasore, Burrisaul, Chittagong, Chupra, Comillah, Gya, Noakholly, Pooree, and Rungpore. The observer at Comillah was fined sixteen times, at Balasore eight times and most of the others five times.

Most of the inland stations have been inspected some time during these three years, but it has been impossible to visit the stations on the coast. The observations, however, have been carefully watched, and any errors made immediately brought to the notice of the observers, so that those who are in the habit of taking careless readings are at once reminded that more care is necessary. A condition of high efficiency is maintained, as shown by the accuracy with which the movements of storms in the Bay can be followed. In connection with Chittagong observatory, I have shown from what cause the greatest risk of failure in supplying accurate information arises, and that it is in a fair way of being removed.

In past years the condition of the lines connecting Diamond Island and False Point with the mainland has been the subject of comment. During the year 1889-90 there was no serious stoppage at either station, but the weather was never very stormy during the monsoon season, so that they were not put to the same test as in other years. The telephone line between Hookeytollah and the False Point Lighthouse has been thoroughly overhauled, and the telephone replaced by Morse instruments which will soon be in use. Though the telegraph authorities think it unlikely that the line will, even now, be able to stand the strain of very stormy weather, there is no doubt but that it will now be much more reliable.

Rain recording stations.

The number of rainfall recording stations during the past three years is as given below :—

Year.	Stations.
1887-88	250
1888-89	255
1889-90	258

These stations have generally despatched their returns with great regularity. There were, however, a few exceptions. Piplee submitted no returns throughout the year. Sorah, Balasore, Azimgunge, Patkabari, Bogra, and the more outlying stations in Purneah, Mozufferpore, Lohardugga, and Singbhoom were late on several occasions.

Pilot telegrams.

With a view to obtain daily meteorological observations from the pilot-brigs cruising at the Sandheads, Mr. Pedler, with the assistance of Mr. S. R. Elson, devised and issued a special code by means of which the meteorological observations taken in the pilot-brigs can be reported by a single hoist of four flags displayed in passing Saugor Island Lighthouse and thence telegraphed to the Meteorological Office.

These telegrams have been received with fair regularity. The observations seem to have been taken from different instruments and probably by different persons from time to time, so that the pressure reported is not very reliable, especially as there has sometimes been difficulty in ascertaining to what day the observations belong. A list given below shows the number of telegrams received each month since the system was started.

June	1889	... ...	1	November	1889	... Nil.
July	„	... ...	17	December	„	... 13
August	„	... ...	9	January	1890	... 10
September	„	... ...	17	February	„	... 15
October	„	... ...	1	March	„	... 13

Instruments.

The following table shows the number of instruments supplied to the observatories under my control during the last three years :—

List of Instruments issued to the Observatories in Bengal and Assam during 1887-88, 1888-89, *and* 1889-90.

	Barometer.	Hygrometer. Dry.	Hygrometer. Wet.	Maximum thermometer.	Minimum thermometer. Dry.	Minimum thermometer. Wet.	Radiation thermometer. Solar.	Radiation thermometer. Grass.	Anemometer.	Wind vane.	Rain-gauge.	Measure-glass.	Clock.	Lantern.	Barometer cage.	Lens.	Thermometer cage.	Sand-glass.	Watch.	Aneroid Barometer.
Akyab	...	...	...	...	...	...	...	A	...	B	...	B	...	...	...	...	...	...	...	...
Arrah	A	...	...	...	...	...	...	...	C	...	B	B	...	...	...	...	...	...	...	...
Balasore ...	...	...	...	A	...	...	...	...	A	A	...	...	...	...	...	...	...	...	...	...
Bankoora ...	...	...	...	...	..	...	...	...	A	B	...	...	...	C	...	...	...	...	...	...
Berhampore ...	...	...	...	...	...	...	...	...	..	A	...	...	A	...	...	...	...	...	...	...
Bhagulpore ...	AC	...	...	B	...	...	...	...	2C	C	...	...	...	...	A	...	...	...	...	...
Bogra	...	...	...	...	C	...	...	...	C	...	...	...	...	C	...	...	...	...	...	...
Burdwan ...	A	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
Burrisaul ...	...	...	...	...	...	...	...	...	...	B	...	...	...	...	...	...	...	...	...	...
Buxar	...	...	B	...	...	...	...	...	...	...	B	A	...	...	...	...	...	...	...	...
Chittagong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C	...	...
Chupra	...	...	...	B	A	...	...	...	A	...	...	...	A	..	...	...	...	...	...	...
Chybassa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coconada ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Comillah ...	..	C	C	...	C	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuttack ...	...	...	A	...	...	...	...	A	...	...	...	...	...	...	...	...	...	...	...	...
Dacca	AB	...	...	...	B	B	...	...	C	B	...	...	...	...	B	A	...	C	...	..
Darjeeling ...	...	...	...	C	...	...	C	C	...	B	...	B	...	...	...	...	...	BC	...	...
Dehree	...	...	...	A	...	...	...	...	...	...	...	A	...	...	...	...	...	...	...	...
Demagiri ...	...	...	...	...	...	...	...	...	...	...	...	C	...	...	...	...	...	...	...	...
Dhubri	C	...	B	...	...	...	B4C	A	A	A	..	A	...	...	...	...	...	B	C	...
Dinagepore ...	...	...	...	...	...	...	...	...	...	A	...	...	...	...	...	...	...	...	...	...
Durbhunga ...	...	...	A	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
False Point ...	...	...	...	...	...	...	...	...	..	...	...	A	...	...	...	...	...	...	...	...
Furseapore ...	...	...	...	...	...	...	...	...	...	...	...	B	...	...	...	...	...	...	...	...
Gopalpore ...	...	...	...	...	...	...	...	...	B	...	...	...	...	C	...	...	...	...	...	...
Gya	2C	...	...	...	...	C	...	...	...	B	B	B	...	...	...	...	...	...	...	C
Hazaribagh ...	...	...	...	...	...	...	3BC	...	A	...	..	...	...	...	...	...	...	...	...	...
Jessore	BC	...	...	...	...	...	...	...	...	B	...	...	...	...	...	...	...	...	...	...
Julpigoree ...	...	...	...	C	...	...	...	...	...	...	...	...	...	..	B	...	...	...	...	...
Krishnaghur ...	C	...	...	...	...	...	...	...	B	...	...	C	...	...	...	B	...	...	...	...
Madras	B	B	B	B	B	...	...	...	B	B	B	B	...	...	...	...	B	B	...	...
Maldah	A	...	...	...	...	...	...	...	A	...	...	...	...	...	...	...	...	...	...	...
Midnapore ...	AB	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Motihareo ...	A	...	...	2C	...	...	...	...	B	A	...	...	...	...	...	...	...	...	...	...
Mymensingh ...	...	...	...	C	...	...	...	...	...	A	...	AC	...	...	B	...	...	...	...	...
Nellore	B	B	B	B	B	B	...	...	B	BC	B	B	...	...	B	...	B	B	...	...
Noakholly ...	...	...	B	...	...	...	...	...	A2B	...	...	B	..	...	B	...	B	...	...	...
Nya Doomka ...	...	...	...	...	...	...	...	..	...	B	...	...	...	...	...	...	...	...	...	...
Patna	B	...	...	...	...	...	...	...	C	...	B	...	...	...	...	...	...	...	...	...
Pooree	A	A	A	AC	AC	...	...	...	AC	A	A	A	...	...	...	...	A	A	...	...
Purneah ...	...	...	...	...	B	...	...	...	...	...	...	...	...	...	...	...	...	C	...	...
Rampore Beauleah.	...	...	A	B	...	...	...	...	B	...	...	...	...	...	...	...	...	...	...	...
Ranchee ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Raneegunge ...	A	...	...	...	...	...	...	...	A	A	...	...	...	...	...	...	...	...	...	...
Rungpore ...	B	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saugor Island ..	...	...	...	...	...	...	B3C	...	A	...	...	...	...	A	...	...	...	C	...	...
Serajgunj ...	...	...	...	...	...	...	...	...	...	...	...	A	...	...	...	...	...	...	...	...
Sibsagor ...	...	...	...	...	...	...	B3C	...	...	...	...	...	...	...	...	...	...	...	...	...
Silchar	B	...	...	...	...	...	...	...	...	...	...	...	B	...	...	...	...	...	...	...
Tavoy	AB	A	A	A	A	A	...	...	A	A	A	AC	...	...	...	...	A	AC	...	...
Tezpore ...	..	...	...	...	CD	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tura	...	B	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shortt's Island	B	B	B	B	B	...	...	...	B	B	B	B	...	...	...	...	B	B	...	...
Lungleh ...	C	C	C	C	C	...	...	...	C	C	...	...	...	...	...	...	...	...	...	...

A—1887-88. | B—1888-89. | C—1889-90.

Storm signals.

The following tables give a brief summary of the various cyclonic storms in the Bay of Bengal during last year, and the action taken by this office to warn the coasts affected by them :—

Table giving a brief statement of the storms which affected the Bay of Bengal coasts during the year 1889-90.

No.	Date.	Character of storm.	Coast affected.
1	May, 21st and 22nd ...	Feeble depression off Pegu coast...	It passed into the Central Provinces and merged into the area of permanent low pressure.
2	June, 9th to 11th ...	Small depression off Ganjam coast	Crossed North Orissa coast on the 11th.
3	June, 17th	Feeble depression in north-east of the Bay.	
4	June, 24th to 27th ...	Feeble cyclonic storm off Orissa coast.	Crossed North Orissa coast at about 8 P M. on 26th.
5	July, 12th to 20th ...	Small cyclonic storm off Orissa coast.	Crossed the coast between Balasore and Saugor Island on the morning of the 20th.

No.	Date.	Character of storm.	Coast affected.
6	August, 5th and 6th ...	Small depression over the head of the Bay.	Crossed Orissa coast near Pooree.
7	August, 15th to 17th ...	Small depression over the head of the Bay.	Passed northwards.
8	August, 25th and 26th ...	Feeble depression off Orissa coast	Passed inland.
9	September, 16th to 19th	Cyclonic storm formed in the centre of the Bay moved in a westerly direction.	Crossed Ganjam coast on the evening of 18th.
10	September, 25th to 27th	Feeble diffused depression in the north-east of the Bay.	Passed northwards.
11	October, 4th to 11th ...	Shallow depression off Circars coast.	Merged into the area of uniform pressure.
12	October, 13th to 16th ...	Feeble depression off Orissa coast	Crossed coast on the morning of the 16th.
13	October, 21st to 27th ...	Shallow depression, formed off Orissa coast, and moved slowly in northerly direction	Crossed coast east of Saugor Island, passing over Sunderbunds on the 27th.
14	November, 2nd and 3rd	Small depression in the Gulf of Martaban.	Moved northward towards the land.
15	November, 13th to 20th	Cyclonic storm formed in the southern half of the Bay.	Approached Madras coast till the 18th then moved rapidly in a northerly direction, the centre passing inland near Gopalpore on the morning of the 20th. Gave heavy gales on the Circars and south Orissa coast.
16	December, 16th to 18th...	Small depression in the south-west of the Bay.	Crossed Madras coast to south of Negapatam on the morning of the 18th.
17	December, 23rd to 26th	Small depression formed in the south of the Bay.	Moved in a north-westerly direction, and crossed the coast as a feeble depression near Nellore.

Table showing the action taken by the Calcutta Meteorological Office in warning the coasts affected by the storms enumerated in the above table.

Storm number.	Hoisting of Storm Signals.			Warning of Ports by cautionary telegrams.	
	Ports ordered to hoist signals.	When hoisted.	When lowered.	Ports warned by cautionary telegram.	Time and date of despatch of cautionary telegrams.
1	.....	.....	.....	Madras and Rangoon	11-15 a.m. of 21st May.
				Madras	11-15 a.m. of 22nd May; 11 a.m. of 23rd May.
				Moulmein, Rangoon, Bassein, and Tavoy.	9-25 a.m. and 10p.m. of 22nd and 11 a.m. of 23rd May.
2	Saugor Island	9th June 10-50 hours ...	10th June 19 hours ...	Madras and Rangoon ...	10-50 a.m. of 8th June.
	Mud Point	Do. 10-40 ,, ...	Ditto 18-55 ,, ...	Gopalpore, Calingapatam, Bimlipatam, Vizagapatam and Cocoanada.	10-10 a.m. of 9th June.
	Diamond Harbour ...	Do. 10-50 ,, ...	Ditto 19 ,, ...		
	Budge-Budge	Do. 10-25 ,, ...	Ditto 18-20 ,, ...		
	Calcutta, Pooree, False Point, Chandbally, and Balasore.	Ordered to hoist at 10 hours of 9th June.	Ordered to lower at 18 hours of 10th June.	Madras	10-12 a.m. of 9th June.
3	.....	.....	.....	Chittagong	10-10 of 16th June.
4	Saugor Island	26th June 11-1 hours ...	27th June 10-47 hours ...	Gopalpore, Pooree, False Point, Chandbally, and Balasore.	9-40 a.m. of 25th June.
	Mud Point	Do. 10-45 ,, ...	Ditto 10-45 ,, ...		
	Diamond Harbour... ...	Do. 10-40 ,, ...	Ditto 10-46 ,, ...	Gopalpore and Calingapatam.	10-23 a.m. of 26th June.
	Budge-Budge	Do. 10-12 ,, ...	Ditto 10-17 ,, ...	Madras	11-10 a.m. of 26th June.
	Calcutta, Pooree, False Point, Chandbally, and Balasore.	Ordered to hoist at 10-30 hours of 26th June.	Ordered to lower at 10 hours of 27th June.		
5	Saugor Island	15th July 10-50 hours ...	21st July 6-10 hours ...	Pooree, False Point, and Gopalpore.	9-50 of 12th; 10-35 of 14th; 21-5 of 15th; 10-32 of 18th; 10-37 of 19th, and 11-6 of 20th July.
	Mud Point	Ditto 10-40 ,, ...	Ditto 6-14 ,, ...	Madras	10-50 of 12th; 10-25 of 13th; 11-18 of 14th; 10-35 of 15th; 10-20 of 16th; 10-37 of 19th; 10-55 of 19th, and 11-12 of 20th July.
	Diamond Harbour ...	Ditto 10-30 ,, ...	Ditto 6-15 ,, ...	Calingapatam, Bimlipatam, Coconada, Vizagapatam, and Masulipatam.	10-45 of 14th; 10-15 of 15th; 10-18 of 16th; 10-32 of 18th; 10-37 of 19th, and 11-6 of 20th July.
	Budge-Budge	Ditto 9-58 ,, ...	Ditto 6 ,,		
	Calcutta, Pooree, False Point, Chandbally, and Balasore.	Ordered to hoist at 10 hours of 15th July.	Ordered to lower at 5-30 hours of 21st July (except Pooree, which was ordered to lower at 15-25 of 20th July.)		
9	Saugor Island	17th September 17 hours	19th September 5-5 hours.	Gopalpore, Calingapatam, Bimlipatam, Vizagapatam, Madras, and Coconada.	16 hours of 17th; 10-24 and 15-48 of 18th; 4-20 of 19th September.
	Mud Point	Ditto 17 ,,	Ditto 5-5 ,,		
	Diamond Harbour ...	Ditto 16-45 ,,	Ditto 5-15 ,,		
	Budge-Budge	Ditto 16-7 ,,	Ditto 4-45 ,,		
	Calcutta, Pooree, False Point, Chandbally, and Balasore.	Ordered to hoist at 15-30 hours of 17th September.	Ordered to lower at 4 hours of 19th September.		

Storm number.	Hoisting of Storm Signals.			Warning of Ports by cautionary telegrams.	
	Ports ordered to hoist signals.	When hoisted.	When lowered.	Ports warned by cautionary telegram.	Time and date of despatch of cautionary telegrams.
11	Pooree, Falsepoint, Chandbali and Balasore	Ordered to hoist at 10-25 of 7th October.	Ordered to lower at 10-45 of 8th October.	Gopalpore and Madras ...	10-37 of 7th and 10-50 of 8th October.
12	.....	.....	.....	Coconada, Masulipatam and Madras.	16 hours of 15th and 10-30 of 16th October.
13	Saugor Island	26th October 10 hours ...	27th October 10-5 hours.		
	Mud Point	Ditto 10 ,, ...	Ditto 10 ,,		
	Diamond Harbour ...	Ditto 9-55 ,, ...	Ditto 10-5 ,,		
	Budge-Budge	Ditto 9-7 ,, ...	Ditto 10-30 ,,		
	Calcutta	Ordered to hoist at 8-50 of 26th October.	Ordered to lower at 9-20 of 27th October.		
14	.....	.....	.....	Bassein, Rangoon, Moulmein, and Tavoy.	8-35 of 2nd and 8-30 of 3rd November.
15	Saugor Island	19th November 11-5 hours	20th November 15-45 hours	Madras, Gopalpore, Bimlipatam, Coconada, Visagapatam, Masulipatam, Negapatam, Akyab, and Rangoon.	10-20 of 13th; 10-10 of 14th; 10-15 of 15th; 10-40 of 16th; 10-35 of 17th; 10-10 of 18th (except Gopalpore, Akyab, and Rangoon); 11-40 and 18-40 of 19th; 10-40 of 20th November.
	Mud Point	Ditto 11-30 ,,	Ditto 15-55 ,,		
	Diamond Harbour ...	Ditto 11-12 ,,	Ditto 15-45 ,,		
	Budge-Budge	Ditto 11 ,,	Ditto 15-27 ,,		
	Calcutta, Pooree, False Point, Chandbally, and Balasore.	Ordered to hoist at 10-10 of 19th November.	Ordered to lower at 15-30 of 20th November.	Pooree, False Point, Chandbally, and Balasore.	10-35 of 14th; 10-15 of 15th; 10-40 of 16th; 10-25 of 17th; 18-40 of 19th; 10-50 of 20th November.
				Chittagong	10-26 and 18-40 of 19th; 10-40 of 20th November.
16	.....	.....	.....	Negapatam, Tuticorin, and Madras.	10-20 and 17-30 of 17th; 10-20 of 18th; 11 hours of 19th December.
17	.....	.....	.....	Madras, Visagapatam, Coconada, Masulipatam, Paumben, Negapatam, and Tuticorin.	(Madras 10-3 of 22nd); 10-37 of 23rd; 9-50 and 15-25 of 24th; 10-30 of 25th and 10-20 of 26th December.

Cautionary Signal.

An additional weather signal for the approaches to the port of Calcutta and for the port itself, called the *cautionary signal*, has been introduced amongst the existing weather signals by a notification issued on the 29th June 1889.

Daily weather telegram to Port officer, Madras.

During last year the Madras Port authorities represented to Government the desirability of receiving daily information as to the weather passing over the Bay, and in consequence the duty has been entrusted to the Calcutta Meteorological Office. With a view to give the fullest information regarding the whole Bay, Mr. Pedler devised a special meteorological telegraphic code, a manuscript copy of which was sent to the Presidency Port Officer, Madras, on the 28th March 1890, and the first telegram giving such information commenced from the 4th April 1890.

Weather reports.

The regular reports which are issued by this Department are—

1*st*.—Monthly reports of the meteorology of Bengal and Assam which are also illustrated in a few cases with maps drawn by hand representing the actual rainfall, the variation from the normal, and the rainfall expressed as a percentage of the normal fall. Copies of these maps were also regularly supplied to the Sanitary Commissioner, Bengal.

2*nd*.—Weekly reports of the meteorology of Bengal and Assam, and particularly of the rainfall of Bengal.

Both the monthly and weekly reports have been published regularly throughout the year in the *Calcutta Gazette*. The date of publishing of the monthly reports has been in almost every case that of the second Gazette after the close of the month in question, while each Gazette has dealt with the weather statistics of the week up to and including the Friday previous to its issue.

Two other general reports of the meteorology of Bengal are also prepared —the first is the meteorological summary for the whole year prepared and submitted to Government in July for incorporation in the Bengal Administration Report. It was illustrated by maps showing the actual rainfall of the year, and its percentage variation from the normal. The second general report deals with the meteorology of the monsoon season only. This was prepared as usual, and it appeared in the *Calcutta Gazette* of 18th December 1889. A few copies of maps representing the actual monsoon rainfall, its variation from the normal, and the percentage of the actual rainfall as compared with that of normal years, were also prepared for submission with this report.

The Daily Bengal Report, which is published during the monsoon season, was issued regularly from the 27th of April to the 2nd of November. It dealt with the observations of 42 stations, and it was issued to 101 Government officers and to 15 private subscribers.

The Bay of Bengal Daily Weather Report of the Storm Signal Service was issued regularly throughout the year. The usual time at which the report is printed and ready for distribution is between 10-30 and 11 A.M., and it contains the observations made at 8 A.M. at 25 stations in India and Burma, and at two stations (Galle and Trincomallee) in Ceylon. In the latter case the observations are taken at 9-30 A.M., and they consequently cannot be included in the report for the same day, but appear in that of the day following. The report is prepared and issued mainly to give information as to the state of the weather in the Bay of Bengal and over the surrounding coast areas, and to enable the Storm Signal Service to be worked effectively by the Reporter.

This report was supplied free to 43 Government officers and 23 subscribers, paying at the rate of Rs. 2 a month. The receipts from subscribers during the year have covered the cost of printing the reports in this office and of distributing them. There was a small balance at the end of the year 1889-90. This amount was kept in hand to meet urgent demands for repairs to the lithographic presses, &c.

Previous to 1st January 1890 during the monsoon months, May to November, a daily chart was prepared showing the meteorological conditions obtaining over Bengal as communicated to the Calcutta office from the various observatories by telegram. But since the 1st January 1890 five separate charts graphically showing the various meteorological data are being prepared, and this work will be continuous for the whole year in future. These charts are drawn by hand and filed in the office for reference.

Special work.—A special report was prepared by Mr. Pedler giving a full account of the cyclonic storm in the Bay of Bengal of 21st to 28th August 1888. It was submitted to the Meteorological Reporter to the Government of India on 3rd August 1889, and published by the department as "Cyclone Memoir, Part II," in March 1890.

There has been no change in the office establishment during the past year.

Office establishment.

Under the very efficient superintendence of Babu F. M. Basu work has gone on smoothly, and the opinion I have formed during the few months the office has been under my charge enables me fully to endorse the very favourable expressions which Mr. Pedler has recorded in previous reports.

METEOROLOGICAL OFFICE,
Calcutta, the 27th June 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 2nd August, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
Burdwan Divn. 1	Burdwan Aug. 2, '90	5·64	Weather—rainy. Prospects of cultivation good. Transplantation of *amun* going on. Prices of common rice :—
	Culna ...	2·80	
	Cutwa ...	3·66	
	Ranigunge ...	2·42	Srs. Burdwan ... ... 15; Culna ... ... 13; Cutwa ... . 14½; Ranigunge ... ... 15½ } per rupee.
2	Bankoora ,, 2, '90	6·85	Break in the rains in the latter part of the week. Transplanting of *amun* rice still going on. Indigo is being cut. Sugarcane thriving. Price of common rice at Sudder 18 seers per rupee and at Bishenpore 16½ seers per rupee.
3	Birbhum ,, 2, '90	3·71	Very heavy showers of rain. The present condition of the crops is extraordinarily good. All low land cultivated, and an unusually large area of high land as well.
	Rampore Haut ...	3·25	
4	Midnapur ,, 2, '90	0·74	Weather—fine with occasional showers. Paddy and indigo doing well. Paddy still being transplanted. Prices of common rice :— Srs. Sudder ... ... 15; Contai ... ... 18; Tumlook ... ... 14; Ghatal ... ... 16 } per rupee.
5	Hooghly ,, 2, '90	1·95	Weather—close and cloudy. State and prospects of crops good. Prices of common rice :—
	Serampore ...	4·11	
	Jehanabad ...	7·50	Srs. Sudder ... ... 13½; Serampore ... ... 16; Jehanabad ... ... 14½ } per rupee.
	Howrah ,, 2, '90	1·11	Weather—seasonable. Transplanting of *amun* continues. Crops as a rule doing well. Common rice sells at 13 and 14 seers per rupee.
	Uluberia ...	3·02	
	Central Districts.		
Presidency Divn. 6	24-Pergns. Aug. 5, '90	2·27	Weather—hot and clear. Prospects of *aus* and jute fair. Transplantation of *amun* going on, but more rain wanted. Prices stationary.
7	Nuddea ,, 2, '90	3·82	Weather—seasonable. 2·66 inches of rain fell on Monday last (28th). Prospects of crops good. A considerable portion of the *aus* and jute plants on chur lands in the Kushtea subdivision has been destroyed by the rise of the river. The rivers have risen higher than usual for the season.
	Kushtea ...	3·56	
	Meherpore ...	4·59	
	Chuadanga ...	1·69	
	Ranaghat ...	2·65	
8	Khoolna ,, 2, '90	4·91	Weather—rainy. Prospect and condition of crops continue favourable. Transplantation of *amun* still going on. Some damage is being done to *amun* paddy by insects.
	Satkhira ...	1·83	
9	Jessore ,, 2, '90	2·77	Weather—rainy and cloudy. Prospects of standing crops good. Harvesting of *aus* going on. Price of rice has slightly risen.
	Jhenidah ..	9·50	
	Magura ...	2·83	
	Narail ...	1·56	
	Bongong ...	1·15	
10	Moorshedabad ,, 2, '90	7·46	Weather—wet. Rivers very high. Damage done on some low lands. *Aus* and *amun* standing promise very well.
	Lalbagh ...	10·17	
	Kandi ...	9·8	
	Jungipore ...	3·86	
11	Dinagepur ,, 2, '90	9·21	Weather very wet. *Haimanti* transplanting is still in progress. Prospects continue to be very favourable. Price of rice unchanged.
	Thakurgaon ...	4·82	
Rajshahye Divn. 12	Rajshahye ,, 2, '90	Figures not given	Weather—rainy and cloudy. Cutting and steeping of jute in progress. Sowing of winter paddy in the Barandra tracts almost finished. A few days' cessation of rain is necessary for the purpose of weeding.
	Nattore ...	6·62	
13	Rungpur ,, 2, '90	7·37	Weather—cool and cloudy with frequent heavy showers. All standing crops promising well. Jute is being cut and steeped. *Amun* is being transplanted. *Aus* is being cut.
	Nilphamari ...	5·97	
	Kurigram ...	5·94	
	Gaibanda ...	11·03	
14	Bogra ,, 2, '90	6·16	There has been scarcely any sunshine during the week, and a break in the rains would now do good. All crops are doing and promising well. *Amun* rice has been transplanted already on about half the area usually cultivated with this crop. Common rice selling at 19 seers per rupee.
	Sherpur ...	5·79	
	Nowkhilla ...	6·65	
15	Pubna ,, 2, '90	2·34	Weather—cool and rainy. Prospects of *aus*, *amun*, and jute continue good, though the rise of the rivers threatens to do damage to the crops standing on low-lying lands. Jute and *aus* are being reaped. Prices have decreased still more.
16	Darjeeling ,, 2, '90	22·69	Weather—continues very wet. Rainfall at Darjeeling 33 inches over the average. Sun much wanted for tea. Four annas of the jute crop spoilt by rain in the Terai. *Bhadoi* crop doing well.
17	Julpigoree ,, 2, '90	6·96	Weather—rainy and cloudy. Reaping of *aus* commenced. Transplanting of *amun* going on. Jute doing well. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca Aug. 2, '90	2·85	Weather—cloudy and rainy. Harvesting of jute and *aus* paddy going on. Damage to *aus* paddy anticipated owing to high flood. *Amun* paddy thriving. Fodder not available in abundance. Price of common rice stationary.
19	Furreedpur ,, 2, '90	3·69	Weather—seasonable. The river has risen very considerably and has overflooded a large portion of the Sudder sub-division and submerged the crops. If the flood remains at its present level for some days more, the crops will be seriously damaged. The outlook in Goalundo and Madaripur is, however, reported to be hopeful. Price of rice stationary.
20	Backergunge ,, 2, '90	2·93	Weather—seasonable at sub-divisions, but hot at Sudder. State of standing crops generally good. Common rice selling at about 13 seers 8 chittacks per rupee.
21	Mymensingh ,, 2, '90	6·03	Weather—cloudy and sultry with heavy rain almost daily. *Aus* paddy excellent and is being gathered. Jute somewhat injured by incessant and early rain. About half the normal area transplanted with *amun* paddy seedlings. Coarse rice sells at 13¾ seers per rupee.
Chittagong Divn. 22	Chittagong ,, 2, '90	22·00	Weather—seasonable. Cultivation was at a standstill in consequence of the heavy rainfall during the first part of the week, but it is again in progress. Some damage, but not very much, appears to have been caused to the *aus* crop by the heavy rain. Lands are being prepared for *amun*. Common rice selling at 16 seers per rupee.
23	Noakholly ,, 2, '90	7·09	Weather—cloudy and rainy. Reaping of *aus* crop progressing. *Amun* crop is being transplanted. Cocoanuts maturing and in good condition.
24	Tipperah ,, 2, '90	6·33	Weather—cloudy, wet, cool. *Aus* and jute are being cut. *Amun* is being transplanted. Prospects good. Rice selling at from 21 seers 5¼ chittacks to 13 seers 5¼ chittacks per rupee.
25	Chittagong Hill Tracts. ,, 1, '90	10·01	Weather—rainy and cloudy throughout the week. Early *jum* paddy ripening. Cotton progressing. Transplanting in low lands commenced. Common rice is being sold at 12 seers 5 chittacks per rupee.
	Hill Tipperah ,, 1, '90	6·12	Weather—rainy and damp. Harvesting of *aus* and *til* finished in some parts of the State. *Amun* still being transplanted. *Jum* crops doing well. Prices stationary.
BEHAR.			
Patna Divn. 26	Patna ,, 2, '90	7·43	Weather hot. Transplantation of paddy is being pushed on. *Bhadoi* crops
	Barh ...	7·87	reported to have been damaged in the Barh sub-division owing to floods and
	Dinapore ...	7·07	incessant rain. Prices of some of the food-grains are slightly falling.
27	Gya ,, 2, '90	4·37	Weather—hot and cloudy. Transplantation of paddy going on. Prospects of *bhadoi* not favourable owing to incessant rainfall. Prices of food-grains almost stationary.
28	Shahabad ,, 2, '90	3·36	Weather—rainy and cloudy. Prospects of the *bhadoi* crops in the Sudder and
	Buxar ...	3·24	Buxar sub-divisions are not favourable owing to excessive rainfall. In other
	Bhamuah ...	3·54	sub-divisions the crops are doing well. Transplantation of paddy in progress.
	Sasseram ...	2·44	Prices stationary.
29	Durbhunga ,, 2, '90	5·81	Weather—cloudy with frequent rain. *Bhadoi* and rice crops in north-western
	Madhubani ...	13·27	part of the Sudder sub-division considerably damaged by floods of the
	Somastipur ...	9·32	Bagmati and Kamla. Elsewhere prospects continue favourable, but a break in the rains is urgently needed. Indigo manufacture in progress. Prices falling.
30	Muzaffarpur ,, 2, '90	6·17	Weather—cloudy and wet throughout the week, and no sign of a cessation of
	Hajipur ...	7·94	the rain at the time of report. Excessive rain has done much damage to
	Sitamarhi ...	6·51	the *bhadoi* crops and low-lying paddy in parts. The Toorkee bund has been cut, and much water is pouring over the country south of it, causing serious injury to indigo, *makai*, and other crops. Area affected cannot yet be reported.
31	Sarun ,, 2 '90	10·86	Weather—very wet and stormy. *Bhadoi* wants sun badly. Some low rice lands swamped. Indigo outturn fair.
32	Chumparun ,, 2, '90	9·44	Weather—cloudy. Rain almost daily, resulting in slight damage to *bhadoi*. Fine weather anxiously looked for. Transplantation of paddy nearly finished. Indigo manufacture continues.
Bhagulpore Divn. 33	Monghyr ,, 2, '90	10·06	Heavy rain and cloudy sky. Very little sunshine. The excessive rain has injured
	Begusarai ...	10·35	the *bhadoi* crops, and along the Ganges they have been submerged to a large
	Jamui ...	9·62	extent.
34	Bhagulpur ,, 2, '90	11·1	Heavy rain and continued cloud. The very heavy rain during the week and the
	Banka ..	4·14	rising of the rivers have done some damage to the *marua* and *makai* crops.
	Mudhepura ...	11·0	Prospects of the rice crop are good, but a break in the rains with some
	Soopool ...	14·4	sunshine is now wanted.
35	Purneah ,, 2, '90	7·84	Weather—stormy with much rain. Jute has suffered from excessive rain;
	Kishengunge ...	4·79	estimated outturn 12 annas in Kishengunge and 14 annas in the rest of the
	Arrareah ...	4·08	district. *Bhadoi* crops are being harvested in Kishengunge. Prospects favourable, but some damage to young winter rice from floods. Prices falling.
36	Maldah ,, 2, '90	5·20	Weather very wet. Rain every day. Transplantation of *amun* continues.
	Chanchal ...	6·68	*Bhadoi* has been much injured by excessive rain and early rise of the rivers.
	Shibgunge ...	4·29	No change in prices.
	Gajole ...	4·86	
37	Sonthal Pergns. ,, 2, '90	4·85	Weather—cool. Constant rain during the week has somewhat damaged the
	Deoghur ..	7·21	*makai* crop. Transplantation of rice going on, and mostly completed.
	Rajmehal ...	2·92	Owing to heavy rainfall rice cultivation on high lands more than usual. A
	Jamtara ...	3·96	spell of sunshiny weather now much wanted.
	Godda ...	4·38	
	Pakour ...	2·85	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	ORISSA.			
Orissa Divn.	38	Cuttack Aug. 2, '90	3·58	Weather—seasonable. Transplantation of *sarad* still going on. Sugarcane doing well. Prospects generally good.
Orissa Divn.	39	Pooree July 31, '90 Khoordah ...	1·04 6·90	Weather—seasonable. Transplanting and puddling of *sarad* rice in progress. *Beali* rice is being weeded. Cotton, sugarcane, &c., doing well. Price of common rice stationary.
Orissa Divn.	40	Balasore Aug. 2, '90	0·20	Weather—cool and cloudy, but almost rainless. Very little short of the usual area has been already sown or transplanted with rice, both *sarad* and *guru*. More rain is much wanted, especially in the north of the district. Number of coolies on relief-works 41.
	CHOTA NAGPORE.			
	South-West Frontier Agency.			
Chota Nagpore Divn.	41	Hazaribagh Aug. 2, '90	2·51	Rainfall lighter. A partial break in the rains during the last three days of the week. Excessive rain has damaged Indian-corn and other *bhadoi* crops. Paddy is being transplanted, and good progress made. Rice selling at from 15 to 18 seers per rupee.
Chota Nagpore Divn.	42	Lohardugga ,, 2, '90 Palamow (up to 28th July)	5·90 5·78	Weather—warm and cloudy. Rain daily during the week. Transplantation of winter rice is being carried on vigorously. Prospect of *bhadoi* good. No material change in prices.
Chota Nagpore Divn.	43	Singbhoom Aug. 2, '90	2·54	Seasonable rain on all but one day of the week. Reports of the condition of the crops are most favourable from all sides. Tussur cultivation has only just commenced; its progress is very slight owing to wet weather.
Chota Nagpore Divn.	44	Manbhoom ,, 2, '90 Govindpore ...	2·38 3·90	Weather during week favourable for the crops. *Bhadoi* crops doing well except in the Govindpore subdivision, where they are said to be suffering from damp. Price of rice 17 to 20 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 5th August, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 27th July to 2nd August 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
July	27th	123·6	0·4	29·589	79·9	84 6	8·8	75·8	77·9	0·931	77·1	91	WSW, SW and calm	70	1·12	Chiefly cloudy, o, g, p, d, t.
,,	28th	151·1	Nil	·600	81 2	85·5	10·3	75·2	78·6	·944	77·5	89	WSW, SSW and calm	78	0·04	Chiefly cloudy, o, g, d.
,,	29th	136·5	,,	·567	81·5	84·5	8·3	76·2	77·9	·909	76·3	85	W, SW and SSW ...	104	0·04	Chiefly cloudy, o, g, d.
,,	30th	150·7	1·8	·528	81·4	87·4	11·0	76·4	78·9	·956	77·9	89	SSE and calm ...	32	0·39	Chiefly cloudy, o, g, p.
,,	31st	155 3	3·9	·558	81 8	86·3	9·8	76 5	78·8	·945	77·5	87	ESE, SSW and S by W.	82	0·02	Partially cloudy, d.
Aug.	1st	149·5	5·1	·606	83·2	87·5	11·0	76·5	79 5	·958	77·9	84	S by E, S and SSE...	96	0·04	Partially cloudy, d.
,,	2nd	150 6	7·6	·640	83·8	88·5	11·4	77 1	79·6	·957	77·9	83	SE, SSE and S ..	65	Nil	Partially cloudy.

		Inches.
The mean pressure of the seven days		29·584
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·557
		Hours.
The total number of hours of bright sunshine		18 8
The maximum possible number of hours of sunshine		92·1
		°
The mean temperature of the seven days		81·8
The average temperature of the corresponding period for 24 years, S.-G.'s Office		82·9
The extreme variation of temperature		13·3
The maximum temperature		88·5
		Miles.
The highest velocity of the wind in one hour		10
		lbs.
The highest pressure of wind on one square foot	Not measurable.	
		%
The mean relative humidity		87
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		87
		Inches.
The total fall of rain from 27th July to 2nd August 1890		1·65
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		3·85
The total fall from 1st January to 2nd August 1890		31·17
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		35·75

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; t, thunder; p, passing temporary showers.

N. B.—In the weekly report from 6th to 12th July 1890 read 82·2 for 82·8 as the mean temperature of the 7th July 1890.
In the weekly report from 13th to 19th July 1890 read 9·6 for 9·9 as the range of the 18th, and also read 80·6 for 83·6 as mean wet bulb of the 16th July 1890.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 4th August 1890.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	Station Observations.														
			Air Pressure.			Wind.		Temperature.									
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	29·638	29·650	—	S.-wly.	394	90·7	29th July	75·6	30th July	86·5	78·1	82·3	—	80·6
		Gopalpore	29·652	29·654	+·058	SSW	398	85·2	28th & 27th July	77·8	30th & 31st July	83·9	78·8	81·4	—1·9	80·9
		False Point	29·617	29·639	+·031	W	301·7	88·5	27th ,,	75·1	28th & 30th July	85·3	76·2	80·8	—2·0	80·5
	Cuttack	Cuttack	29·593	29·647	+·044	SW	96·1	90·4	27th ,,	75·3	29th ,,	86·9	77·2	82·1	—1·8	80·9
	Balasore	Balasore	29·561	29·620	—·010	SW	171·6	88·4	26th & 27th July	75·7	30th & 30th July	86·1	77·1	81·6	—0·6	79·9
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·593	29·619	+·032	SW	507·4	88·2	31st ,,	78·5	31st July & 1st Aug.	86·0	80·0	83·0	—0·2	81·3
	Midnapore	Midnapore	29·462	29·613	+·013	S	149·3	89·3	26th ,,	76·1	28th July	87·6	77·2	82·4	—1·0	80·5
	24-Pergunnahs, Howrah, Hooghly	Calcutta	29·592	29·614	+·032	Southerly	96·0	87·5	31st ,,	75·2	24th ,,	85·9	76·6	81·3	—1·8	79·8
	Burdwan	Burdwan	29·492†	29·592†	+·014†	South-westerly	96·6	88·6	26th, 27th, 31st July	76·9	29th ,,	87·2	77·6	82·4	—2·0	79·7
	Bankoora	Bankoora	29·287	29·557	+ 012	Calm	66·0	88·1	27th ,, & 1st Aug.	75·6	28th & 29th July	86·5	76·6	81·6	—1·6	79·0
	Beerbhoom, West Burdwan	Ranegunge	29·204	29·629	+·052	Variable	56·5	88·0	26th July	75·4	29th ,,	86·1	76·7	81·4	—2·4	79·0
	Moorshedabad	Berhampore	29·536	29·603	+ 020	Variable	127·0	88·6	27th ,,	75·3	26th, 29th, & 30 July	86·5	76·0	81·3	—2·2	79·2
	Nuddea	Krishnaghur	29·559	29·607	+·031	Variable	125·1	85·3*	26th ,,	75·8*	26th & 29th July	86·8*	76·2*	81·5*	—1·7*	81·4*
	Jessore, Khoolna	Jessore	29·594	29·618	+·019	?	?	89·2	26th ,,	76·9	28th ,,	87·4	78·3	82·9	—1·2	80·6
East Bengal.	Chittagong	Chittagong	29·604	29·695	+·036	S	143·4	87·6	31st ,,	72·5	27th & 28th July	87·2	73·3	80·3	—0·4	77·9
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	29·616	29·628	+·028	South-easterly	138·0	85·3	26th July	75·4	28th ,,	83·7	76·9	80·3	—1·0	80·8
	Noakholly	Noakholly	29·6.8	29·682	+·043	SE	187·1	84·5	26th ,,	75·3	28th to 30th July	82·8	75·9	79·4	—1·7	79·3
	Furreedpore	Furreedpore	29·596	29·636	+·031	SW & C	133·3	86·5	26th ,,	76·4	31st ,,	85·0	77·6	81·3	—1·5	79·7
	Dacca	Dacca	29·609	29·632	+·022	Southerly	191·5	86·1	26th & 31st July	74·0†	29th ,,	84·7	75·8	80·3	—3·4	79·6
	Commillah	Commillah	29·605	29·641	+·014	S	149·3	85·9	29, 31 ,, 1st Aug.	73·8	30th ,,	85·0	75·4	80·2	—1·6	79·1
	Mymensingh	Mymensingh	29·573	29·631	+·013	South-easterly	132·2	85·7	31st July	75·6	28th & 29th July	85·2	76·2	79·7	—3·2	78·1
North Bengal.	Bogra	Bogra	29·532	29·595	+·024	Calm	90·4	88·3	27th ,,	76·1	29th & 30th July	86·0	76·7	81·4	—1·7	79·1
	Pubna	Serajgunge	29·570	29·617	+·010	South-westerly	90·4	86·1	28th ,,	75·2	27th ,,	84·5	76·4	80·5	—2·5	78·4
	Rajshahye	Rampore Beauleah.	29·532	29·602	+·031	South-westerly	157·1	87·3	27th ,,	76·1	27th ,,	85·7	77·1	81·4	—2·1	80·2
	Maldah	Maldah	29·512	29·594	—	Variable	76·3	88·6	26th ,,	76·7	31st ,,	86·3	77·4	81·9	—	80·1
	Dinagepore	Dinagepore	29·480	29·600	—·010	E	54·1	87·6	27th ,,	78·1	29th ,, & 1st Aug.	85·4	78·6	82·0	—2·1	79·8
	Rungpore	Rungpore	29·503	29·628	+·014	Variable	88·9	89·3	1st Aug.	75·7	29, 30 July & 1st Aug.	85·6	76·4	81·0	—3·3	79·1
	Julpigoree, Cooch Behar	Julpigoree	29·536	29·625	+·013	?	121·4‡	87·4	30th & 31st July	74·1	30th July	85·2	75·1	80·2	—2·7	78·2
	Darjeeling Hill Tracts	Darjeeling	22·837	—	—·030	ENE	78·3	66·1	27th ,,	55·1	1st Aug.	63·6	56·2	59·9	—2·8	59·0
North Behar.	Purneah, North Bhagulpore	Purneah	29·462	29·589	+·006	Calm	62·9*	87·7	31st ,,	75·9	1st ,,	84·9	76·6	80·7	—3·7	80·2
	Mozufferpore	Mozufferpore	29·383	29·564	—	ESE	142·0	87·3	1st Aug.	75·2	27th & 30th July	83·6	76·8	80·2	—	79·2
	Durbhunga	Durbhunga	29·417	29·584	+·002	ESE	129·7	87·9	1st ,,	76·0	27th, 28th & 30 July	84·7	76·6	80·7	—3·6	79·4
	Chumparun	Motihari	29·360	29·588	+ 019	ESE	195·5	88·2	31st July & 1st Aug.	74·9	30th ,,	85·1	76·3	80·7	—4·0	79·5
	Sarun	Chupra	29·354	29·548	—·016	Variable	223·5	87·3	26th July & 1st Aug.	76·6	26th ,,	83·3	78·4	80·9	—3·1	78·3
South Behar.	Shahabad	Dehree	29·231	29·587	+·021	Calm	17·3*	86·3	1st ,,	75·5	27 & 31 ,,	83·3	76·8	80·1	—2·3	78·3
		Buxar	29·334	29·577	+·014	WSW	160·6	86·4	1st ,,	74·3	28th ,,	81·9	76·4	79·2	—4·2	78·4
		Arrah	29·371	29·567	+·014	Calm	10·7	87·4	1st ,,	75·6	27 & 28 ,,	83·5	76·7	80·1	—4·2	79·1
	Gya	Gya	29·211	29·592	+·012	E	114·1	87·9	30th July	75·8	27th to 29th July	85·0	76·8	80·9	—3·0	78·5
	Patna	Bankipore	29·380	29·571	—·008	W & E	120·1	85·9	30th ,,	75·7	27th & 29th July	83·0	77·1	80·0	—4·6	78·7
	South Bhagulpore, Monghyr	Bhagulpore	29·411	29·574	+·013	Calm	43·6	87·7	1st Aug.	76·5	27th & 30th July	84·8	77·1	81·0	—3·0	79·6
	Sonthal Pergunnahs	Dumka	29·096	29·595	+·027	Calm	25·3	87·3	26th & 29th July	75·0	25th ,,	84·2	75·9	80·1	—2·5	79·0
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·609	29·621	+·018	South-westerly	202·5	83·9	26th ,,	70·2	28th ,,	80·0	71·5	75·8	—2·5	73·3
	Lohardugga, Manbhoom	Ranchee	27·485	29·609	+·015	SW	145·7	82·0	26th ,, & 1st Aug.	60·4	28th & 29th July	80·3	70·6	75·5	—2·3	73·9
	Singbhoom	Chyebassa	28·841	29·608	+·027	WSW	59·8*	87·4	7th July	73·7	29th ,,	85·5	75·4	80·5	—1·9	77·5
Assam.	Assam	Sibsagar	29·351	29·687	+·028	Southerly	53·7	89·6	7th ,,	75·5	26th & 31st July	85·8	76·4	81·1	—3·4	77·9
		Dhubri	29·509	29·636	+·016	E	108·3	84·2	6th & 31st July	76·3	6, 28, 30, ,, & 1st Aug.	83·9	76·6	79·6	—3·6	77·9
		Silchar	29·573	29·679	+·025	Calm	40·2	89·5	1st ,,	74·3	31st July	86·3	75·9	81·1	—2·8	78·3

* Mean of 6 days. † Mean of 4 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last

The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100, A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fall.

for the week ending Friday, the 1st of August 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK. Mean for district.	OF WEEK. Normal mean.	DISTRICT OBSERVATIONS. RAINFALL. Since 1st of July. Mean for district.	Since 1st of July. Normal mean.	Since 1st of July. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division
88	8·9	1·19		2·45		12·49			22·62			4·1	Pooree	Pooree	Orissa.
86	5·3	1·57											Gopalpore ...		
86	8·7	2·38											False Point ...		
81	9·0	2 22	2·49	2·56	15·27	12·61	+2·66	27·49	23·08	+3·51	4·2	4·5	Cuttack .	Cuttack	
87	5·1	0·18	0 60	3·36	7·57	13·67	−6·10	25·19	24·65	+0·54	1·8	4·6	Balasore .	Balasore	
87	9·4	0·74	2·52	3·06	8·05	15·94	−7·89	24·04	27·07	−3·03	3·3	5·4	Saugor Island ..	South-West Midnapore / South 24-Pergunnahs	South-West Bengal.
85	4·0	0·99	3·24	3·86	8·82	13·65	−4·83	29·27	25·09	+4·18	4·3	5·4	Midnapore	Midnapore	
91	9·3	2·11	2·59	3·88	9·16	13 10	−3·94	28·45	25·64	+2·81	4·5	5·3	Calcutta .	24-Pergunnahs... ... / Howrah ... ... / Hooghly	
87	9·4	5·04	4·04	3·47	14·51	11·04	+3·47	37·03	23·56	15·07	6·3	5·0	Burdwan ...	Burdwan	
89	8·1	6·90	3·97	4·34	14·21	14·08	+0·13	32·89	26·19	+6·70	6·0	5·2	Bankoora ..	Bankoora	
90	9·4	2·42	3·19	4·38	16·14	13·78	+2·36	35·14	25·85	+9·29	6·3	5·0	Raneegunge ..	Beerbhoom ... ... / West Burdwan ...	
94	10·0	11 41	7·00	3·16	18·07	11·59	+6·48	32·36	23·86	+8·50	6·5	4·8	Berhampore	Moorshedabad ..	
87	9·1	3·75	3·45	3·00	11·91	10·70	+1·21	27·92	23·94	+3·98	5·8	5·0	Krishnaghur .	Nuddea	
92	9 6	2·35	3·81	3·46	11·87	11·85	+0·02	31·19	27·54	+3·65	5·6	5 5	Jessore ..	Jessore ... ... / Khoolna	
92	7 7	20·98	18·72	9·41	48·31	32·19	+16·12	78·11	67·11	+11·00	6·5	5·9	Chittagong .	Chittagong	East Bengal.
				6·24		17·93			41·64			5·8	Demagiri .	Chittagong Hill Tracts	
93	8·1	3·85	5·77	4·91	20·13	18·75	+1·38	42·49	41·67	+0·02	6·5	5·6	Barrisal ...	Backergunge	
91	5·7	8·25	7·96	6·80	26·11	24·23	+1·88	53·91	56 30	−2·39	6·5	6·0	Noakholly .	Noakholly	
93	8 7	3·87	3·96	4·01	11·25	12·46	−1 21	23·87	29·36	−5·49	5·0	5·2	Furreedpore ...	Furreedpore	
93	9·7	4·50	3·21	4·22	15·09	14·65	+0·44	36·85	31·93	+4·92	6·5	5·4	Dacca ..	Dacca	
90	8·6	5·19	5·76	4·37	17·10	14·48	+2·62	37·99	35·17	+2·82	5·8	5·3	Commillah ..	Tipperah	
95	8 4	6·70	6·35	3·89	17·78	13·88	+3·90	44·96	36·33	+8·63	6·2	5·0	Mymensingh .	Mymensingh	
93	10·0	6·16	6·03	3·24	14·78	13·02	+1·76	35 50	30·52	+4·98	6·8	4 5	Bogra ...	Bogra	North Bengal.
95	9·6	5·08	4·02	3·20	11·10	11·01	+0·09	27·76	25·98	+1·78	6·0	4 4	Serajgunge ..	Pubna	
91	4·1	7·29	6·50	3·05	20·19	11·98	+8·21	42·87	26·59	+16·28	6·0	4·5	Rampore Beauleah	Rajshahye	
93	7·0	5·20	5·94	3·19	12·74	12·46	+0·28	26·43	27·11	−0·68	6·5	4·8	Maldah ..	Maldah	
92	9 9	5 43	5·98	2 79	18·04	12·26	+5·78	38·04	29·95	+8·09	6·0	4·5	Dinagepore ..	Dinagepore	
93	5 0	6·95	7·11	3·03	15 76	14·24	+ 1·52	48·01	43·17	+4·84	6·8	4·6	Rungpore ...	Rungpore	
96	3·6	5·05	8·20	4·07	32·40	21·26	+11·14	80·07	61·10	+18·97	6·8	5·7	Julpigoree ..	Julpigoree ... ... / Cooch Behar	
99	8·9	22·69	17·88	6·08	61·44	33·19	+28·25	98·27	68 25	+30·02	7·0	5·8	Darjeeling ..	Darjeeling Hill Tracts	
93	9·9	5·04		3·33		14 21			28·74			3·7	Purneah .	Purneah ... ... / North Bhagulpore ...	North Behar.
94	8·4	8·27	6·95	2·86	20·42	11 91	+8·51	30·56	20·72	+9·84	6 7	3·5	Mozufferpore .	Mozufferpore	
92	9·0	5·81	7·48	2·80	22·94	11 91	+11·03	35·00	21·29	+13·71	6·0	3·5	Durbhunga .	Durbhunga	
90	9·7	9·73	8·17	2·59	23·89	12·00	+11·30	0·76	22·13	+17·63	6 0	3·2	Motihari	Chumparun	
94	7·1	10·41	8·69	3·56	17·91	12·64	+5·27	3·11	20·19	+9·92	7·0	3·5	Chupra .	Sarun	
91	9·1	2·72											Dehree ... / Buxar ... / Arrah ...	Shahabad	South Behar.
94	9·6	3·60	2·88	3·53	16·85	11·93	+4·92	27·77	17·79	+9·98	6·6	4 2			
93	9·7	3·56													
86	9·1	4·37	3·47	4·21	17·94	12·72	+5·22	32·04	19·74	+12·30	6·3	4·0	Gya .	Gya	
92	9·7	7·43	6·52	3·84	15·55	12·57	+2·98	25·34	20·25	+5·09	6·5	4·2	Bankipore ...	Patna	
78	9·7	8 79	7·87	3·88	18·48	12·16	+6·32	33·29	20·86	+12·43	6·4	4·3	Bhagulpore ...	South Bhagulpore ... / Monghyr	
90	9 3	4·85	5·17	3·77	16·02	13·29	+3·63	34·90	24·81	+10·09	6·7	5·0	Deoghar .	Sonthal Pergunnahs...	
94	10·0	2·74	4·00	3·98	17·96	14·22	+3·74	30·39	23·85	+6·45	6·2	5·2	Hazaribagh ..	Hazaribagh	Chutia Nagpur.
88	9·9	6·95	4·95 / 2·48	4·08 / 3·86	16·00 / 10·34	13·75 / 12·93	+2·25 / −2·09	25·21 / 24·00	22·98 / 22·75	+2·23 / +1·25	6·0 / 7·0	5·0 / 5·0	Ranchi ...	Lohardugga ... ... / Manbhoom	
88	10·0	2·40	2·54	4·25	9·58	15·14	−5·56	21·71	26·03	−4·32	6·0	5·4	Chyebassa ...	Singbhoom	
88	10·0	4·72											Sibsagar ...		Assam.
94	9·7	3·23											Dhubri	Assam	
93	9·7	5·08											Silchar		

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.

denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means

17 years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 1st of August 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of July.	Average total rainfall from 1st of July.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 26th July.	Sunday, 27th July.	Monday, 28th July.	Tuesday, 29th July.	Wednesday, 30th July.	Thursday, 31st July.	Friday, 1st August.	Number of rainy days.	Rainfall of week.				
Orissa ...	Pooree ...	Pooree ...	0·06	0·04	.....	0·11	0·09	0·14	0·21	6	1·55	15·02	11·01	26·15	20·47
		Khurdah ...	.....	0·17	0·52	1·23	0·64	0·20	.....	5	2·73	23·14	13·14	39·10	24·75
		Banpur ...	.....	... ..	0·03	0·26	0·42						11·16		19·16
		False Point ...	... ..	0·21	0·03	1·27	0·43	0·13	0·29	6	2·36	12 56	14·08	26·27	26·08
		Gor ...											?		?
		Satpara ...	.....	.....	.....	0·16	0·60						?		?
		Pipli ...											?		?
	Cuttack ...	Jagatsingpore ...	.....	.....	0·80	0·54	10·10	0·22	1·40	5	3·06	16·46	11·53	26·64	20·19
		Banki ..	.....	0·13	1·17	... .	0·26	0·17	.....	4	1·73	14·70	11 50	29·25	22·10
		Cuttack ...	0·67	0·50	... ..	1·76	0·25	0·40	... ..	5	3·58	21·15	13·64	36·61	27·95
		Kendrapara ...	... ..	0·32	0·74	0·23	0·31	.....	1·47	5	3·07	12·72	12·35	21·05	23·33
		Jajpore ...	..	... ..	... ..	0·89	0·14	.....	..	2	1 03	11·33	13·78	25·87	26·19
		Dharmsala ..	.....	.....	0·30	1·16	... .	... .	0·10	3	1·56	11·47	?	29·47	?
		Salipore ..	0·15	0·17	0·53	0·05	0·21	0·04					?		?
	Balasore ...	Chandbali ...	.....	0·14	.....	0·04	.....	.....	0·10	3	0·28	10·60	12·70	23·15	23·06
		Bhuddruck ...	.....	.. ..	.....	0·09	.....	.....	.....	1	0·09	7·24	12 53	25·67	24·52
		Sorah ...	... ..	... ..	.....	.....	.....	.....	.....	Nil	Nil	6·20	12 82	25·28	22 75
		Balasore ..	0·16	0·04	.....	.....	.....	.....	..	2	0·20	5·76	14 55	25·05	26·08
		Jellasore ..	...	... ..	... .	.....	... ..	.....	0·10	1	0 10	5·89	15 93	23 85	25·02
		Baripodah ...	0·07	0·32	.....	.....	0·12	.....	2·40	4	2·91	9·89	15·37	27·23	25·69
South-West Bengal.	Midnapore ...	Contai ...	.....	.....	.....	.....	... ..	0·26	0·22	2	0·48	3·98	15·59	24·04	27·19
		Sangor Island	.....	... ..	0·05	.....	.....	0·09	0·60	3	0·74	8·07	16·87	24·05	29·39
		Tumlook ..	.....	1·30	3·00	... ..	0 50	0·30	...	4	5·10	10·40	12·68	32 10	24·34
		Midnapore ..	0·30	.. ..	0·21	.....	... ..	0·14	0·09	4	0·74	6·13	13 44	28·94	24·16
		Ghattal ...	0·64	0·06	2·06	0·06	0·17	... ..	... ..	5	3·80	11·57	14·83	28 43	26·78
		Kukrahaty ...	... ..	..	1·13	...	... ..	0·21	0·29	3	1·63	6·30	?	18·50	?
		Garbetta ...	0·24	3 58	0·12	4·29	0·60	.....	.....	5	8·83	15·22	?	30·52	?
	24-Pergunnahs	Diamond Harbour ..	.....	1·72	0·92	0·14	... ..	2·35	1·23	5	6·35	11·48	15·36	26·67	27 35
		Canning Town	.....	.....	0·83	0·15	0·74	0·30	0 33	5	2·25	10·74	?	29·19	?
		Alipore Jail ..	.....	0·91	0·71	0·08	.....	0·42	0·14	5	2·26	11·69	14 17	29·81	26·97
		Barrackpore...	0·04	... .	2·35	0 15	0·11	0·04	.....	5	2·69	8·74	12 87	25·06	25·65
		Dum-Dum ...	.....	0·23	0 86	... ..	... ..	0·04	0·28	4	1·41	7·16	1·28	23·60	25·06
		Baraset .	0·10	... ...	1·88	... ..	.....	0·13	0·00	4	2·61	7·82	11·46	25·01	23·83
		Buseerhat ...	.....	.. ..	1·20	. ....	.....	0·30	.....	2	1·50	11·31	12 97	31·71	27·88
	Howrah ...	Howrah ...	.....	0 41	0 50	0·04	.. ..	0·15	.....	4	1·10	8·61	13 26	25·06	25·41
		Mohesreka ... (*Collaberiah*)	.....	1·05	1·92	...	0·04	0 01	.....	4	3·02	6·50	14 39	36·92	26·02
	Hooghly ..	Serampore ...	0·02	0·26	2·54	0·13	0·11	0·04	.....	6	3·10	9·08	1·54	25·02	25·43
		Hooghly ...	.....	0·45	0·46	0·30	...	0·30	0·38	5	1·95	6·76	12·80	26·22	24·65
		Jehanabad ...	0·81	0 38	1·14	1·04	2·32	0 58	. ..	6	6·27	13·91	13 30	35·00	25·40
	Burdwan ...	Oulna ..	0·37	.....	0·70	0·47	1·16	0·10	.....	5	2·80	11·88	11·07	32·60	21·74
		Burdwan ...	0·19	2·75	0·28	1·85	0 10	0·28	0·19	7	5·64	19·71	11·61	43 50	22·72
		Cutwa ...	1 37	0·44	0·19	0·50	0 75	0·41	0·01	7	3·07	11·93	10·44	36·78	23·17
		Raneegunge .	0·45	0·33	0·04	0·15	1·21	0·10	0·14	7	2·42	13·61	14·54	33·98	24·84
		Mankur ...	0 04	0·95	0·33	0·35	0 17	0·36	0·38	7	2 77	11·57	?	32 70	?
	Bankoora ..	Bankoora ..	... ..	0·89	1·74	0·13	0 65	3·40	... .	5	6·81	20·70	13·32	37·47	24·95
		Bishempore ...	. ..	1·08	0·72	0·42	1 32	0·26	... .	5	4 30	10·85	12·97	32·87	25·17
		Mahara ...	0·02	0·38	0·34	0·19	0·11	0 85	0 09	7	1·98	14·96	14·19	38·40	25·23
		Khatra ...	... ..	0·85	0·38	0 32	0·95	0 22	0·05	6	2·77	10·29	15 82	22 76	29·33
		Indas ...	0·04	2 50	[illegible]	1·38	0·33	0·06	.....	6	4·03	21 87	?	4· 80	?
		Kotalpore ...	0·44	0·05	2·08	2·88	0·54	.....	.....	5	10·04	23·34	?	46 75	?
		Anda ...	.....	1·30	1·20	0·45	0·40	... ..	.....	4	3·35	16·35	?	32·16	?
		Gangajalghati		0·50	0·65	0·31	1·56	0·43	... .	5	3·45	15·93	?	42·12	?
		Raipore		1·55	0·45	1·85	0·52	0·39	0·22	6	4·98	16·27	?	31·94	?
		Nonamukhi ..	... ..	0·54	0·70	0·33	0·19	.....	... ...	4	1·85	16·08	?	32·79	?
	Beerbhoom ..	Bh, Soory ..	0·61	0·30	.....	1·32	0·12	0·94	0·12	6	3·71	21·04	13·02	38·49	26·27
		Hetampore ...	0 12	... ..	0·40	1·14	0·65	0 64	0·08	6	3·03	14·02	15 33	32·67	28·36
		Rampore Haut	.....	1·15	1·05	0·70	0·20	0·25	0·22	6	3·57	15·87	11·80	38 33	23 84
		Bolpore ...	.....	1 50	0·44	0·25	1·40	0·31	0·96	6	4·66	14·90	?	34·25	?
		Murarai ...	0·20	0·65	1·95	0·42	0·35	1·05	.....	6	4·52	19·89	?	31·73	?
	Nuddea ..	Ranaghat .	0·85	0·82	0·17	0·57	... .	0·24	0·02	6	2·67	11 89	10·93	29·34	23·40
		Kishnaghur ...	0·41	0·30	0·12	2 68	0·03	.....	0·27	6	3·82	13·54	10·49	32·82	22·01
		Chooadanga	0·26	0·20	0·04	0·52	0·07	... .	0·48	6	2·17	9·24	10 46	22·98	24 25
		Mohorpore ...	... ..	0·63	1·00	2·55	... .	0·32	0·30	5	4·80	14·75	10·25	27·87	23·24
		Kooshtea	.....	0·57	1·19	1·46	0·03	0·05	0·50	6	3·80	11·30	11·36	26·56	26·72
	Khoolna ..	Satkhira .	0·03	0 52	0·20	0·57	0·30	0·16	0·14	7	1·92	10·67	12·99	31·99	29·29
		Bagirhat ..	0·90	2·30	3·65	...	0·50	... .	0·35	5	7·70	15·88	15·55	42·24	33·06
		Khoolna ...	0·02	.....	0 83	0 51	0 43	0·03	.....	5	1·82	12·79	12·01	32·76	27·73
		Nakipur ...	.....	....	0 98	.....	.....	0·21	0·58	3	1·77	10·11	?	36·40	?
		Rampal ...	.....	2·35	1·12	0·06	.....	... ..	0·04	4	3·57	15·44	?	36·49	?
	Jessore ...	Narail .	.....	1·00	1·48	0·24	.... .	.....	0·08	4	2·80	7·90	9·88	29·24	24 01
		Jessore ...	... ..	0 34	0·41	1 04	... .	0·04	0·52	5	2·35	9·02	12 16	31·67	28·38
		Jhenidah ..	0·09	0·19	0·55	8·92	0 32	0·25	0·12	7	9·54	20 41	10·31	32·07	26·80
		Magoorah ...	0·16	0·47	0·62	0·93	0·30	0·05	0·29	7	2·82	8·04	10·64	24·81	26·54
		Bongong ...	... ..	.....	0·45	0·35	0·20	0·15	0·35	5	1·50	8·94	11 23	24·06	24·02
	Moorshedabad	Kandi ...	3·00	2·60	0·80	1·87	0·53	0·16	0·10	7	9·08	19·32	12·47	33·44	24·58
		Berhampore ...	4 02	3·90	1·25	1·07	0·15	0·57	0·40	7	11·44	20·90	11·97	32 20	23·45
		Lalbagh ...	3·42	1·84	2·10	0·15	0·31	0·55	0·34	7	8·71	2·61	10·61	35·90	22 14
		Azimgunge ...	1·55	1·20	.....	0·30	0·17	... ..	0·85	5	3·87	14·08	11·09	33·01	23·93
		Jungipore ...	0·10	0·67	0·70	0 15	1·48	0 13	0·60	7	3·84	12·25	11 02	25·23	23·05
		Lalgola ...	1·25	2·10	0·15	0·45	0·10	0 95	.....	6	5·00	17 54	12·36	31·41	25·39
		Jiagunge ...	1 36	0·90	0·19	0·07	0·16	0·24	0·39	7	3·37	13·18	?	30·00	?
		Akhriguni ...	1·07	1·32	0·23	0·71	0·82	0·10	0 06	7	4·91	18·54	?	34·37	?
		Patkabari ...	0·80	0·20	0·30	0·10	0·70	.....	.....	5	2·10	13·40	?	27·90	?
East Bengal.	Chittagong ...	Cox's Bazar ...	2·50	4·10	1·20	5·58	1·75	0 20	0·10	7	15·43	54·22	41·39	86·59	81·20
		Chittagong ...	5·36	6·53	1·68	7·56	0·77	.....	0·10	6	22·00	41·38	22·98	69·64	52·97
		Kutubdia ...	4·25	3·60	2 90								?		?
		Satkania ...	2·10	8·00	2·50	2·00	0·79	0·06	.....	6	15·45	33·83	?	49·75	?
	Chittagong Hill Tracts	Rangamati ...	1·55	1·05	2·80	0·56	.....	.....	0·45	5	6·41	21·41	19·72	40·68	43·14
		Ruma ...											16·12		40 97
	Backergunge	Patuakhally ...	0·76	0·60	4·20	0·45	0·97	0·27	0·77	7	8·02	22·75	23·48	46·08	40·30
		Perozepore ...	0·16	0·45	1·55	0·07	2·65	0·22	1·40	7	6·40	19·97	16·93	43·52	36 80
		Burrisal ...	... ..	0·23	1·30	.....	0·69	0·30	0·30	5	2·73	18·57	16·52	48·04	37·19
		Sholu ..	0·95	0·67	1·68	0·07	2·19	0·16	0·22	7	5·94	19·23	19·08	37·33	44·19

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 1st of August 1890 —contd.

Meteorological Division.	District.	Station.	Rainfall							Total.		Total rainfall since 1st of July.	Average total rainfall from 1st of July.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 26th July.	Sunday, 27th July.	Monday, 28th July.	Tuesday, 29th July.	Wednesday, 30th July.	Thursday, 31st July.	Friday, 1st August.	Number of rainy days.	Rainfall of week.				
EAST BENGAL —concld.		*Gournadi*	0·75	0·50	0·15	0·50	.....	0·38	.....	5	2·28	11·39	?	26·27	?
		Bauphal	1·53	0·41	1·58	0·28	1·72	0·35	0·36	7	6·23	21·57	?	41·09	?
	Noakholly ...	Noakholly	0·52	0·51	2·62	1·23	2·47	0·59	0·22	7	8·16	25·13	25·14	49·21	55·89
		Feny	2·28	1·70	2·65	0·43	0·30	... ..	0·40	6	7·76	27·06	25·32	53·57	50·56
		Harishpore ...	1·50	2·50	4·10	3·58							?		?
		Ramganj ..	0·50	0·26	0·62		1·09	0·42					?		?
	Furreedpore	Madaripore ..	.....	.....	2·80	.....	0·18	0·47	.....	3	3·75	11·01	12·65	23·50	30·24
		Furreedpore ..	0·55	1·64	1·03	0·13	0·22	0·12	.....	6	3·69	11·02	12·38	23·56	29·92
		Goalundo	0·35	.....	0·85	2·61	0·15	0·16	0·32	6	4·44	11·72	12·31	24·52	27·87
	Dacca ..	Munshigange		0·22	0·45	1·00	0·26	.....	0·17				10·49		36·61
		Dacca	0·11	0·77	0·18	1·08	0·30	0·04	0·37	7	2·85	10·09	14·17	35·61	31·84
		Saraingunge	0·81	0·34	0·65	1·37	1·34	0·05	0·10	7	4·78	18·34	15·50	41·13	33·03
		Manickgunge	0·16	0·10	1·70	0·32	0·27	0·38	0·16	7	3·09	11·98	12·38	33·29	26·06
		Joydebpore	0·52	1·95	0·22	0·82	0·21	0·12	0·02	7	3·86	14·28	?	37·81	?
	Hill Tipperah	Agartola	2·32	1·50	1·35	0·35	0·42	0·18	....	6	6·12	16·64	12·37	40·10	31·33
	Tipperah ...	Comilla ..	0·94	1·19	1·85	0·78	1·49	0·04	0·06	7	6·33	21·23	17·75	41·52	41·43
		Chandpore ..	.....	.	2·00	0·70	... .	... ..	1·10	3	3·80	13·02	16·05	35·50	36·09
		Brahmunberia	2·04	2·15	0·70	0 38	1·40	0·10	0·03	7	6·80	16·58	11·51	34·77	31·83
		Rameshandrapore ...	0·93	1·11	0·72	2·14	3·25	0·13	0·04	7	8·29	27·59	?	47·03	?
		Nasirnagar ...	1·20	0·90	0·20	.....	.....	.....	... ..	3	2·39	8·19	?	25·01	?
		Daudkandi ..	0·16	0 26	.....	.....	0·45	.....	0·75	4	1·62	6·04	?	18 78	?
		Kasba ..	2·02	2·07	·3	. ....							?		?
		Lakshan .	... ..	2·25	0·15	1·75	1·60	.....	0·90	5	6·65	26·34	?	49·80	?
	Mymensingh..	Kishoreganj	1·10	1·30	1·50	1·25	.....	0 49	0·47	6	6·11	14·28	13·60	40·41	37·56
		Atia (*Tangail*)		...	1·21	0·79	... ..	0·15	0·55	4	2 70	11·65	11·69	34·35	28 47
		Mymensingh	0·63	1·82	1·37	0·50	0·83	0·42	0·56	7	6·03	19·03	14·81	46·02	39·77
		Jamalpore	2·00	0·51	3·05	0 53	1·39	0·11	1·04	7	10·86	18·09	13·02	46·50	32·26
		Nasirkanda	0·44	1·30	0·42	0·99	1 95	1·39	0·14	7	6·54	24·91	16·24	50·89	43·64
		Subornakhali	... ..	0·14		...	0·47	.....	0·46				?		?
		Durgapore ...	2·85	0·44	0·50	0·90	2·00	1·11	0·30	7			?		?
		ShereporeTown	2·91	1·22	2·04	0·66	1·33	..	0·58	6	8·74	14·07	?	37·76	?
		Dewanganj	.....	4·30	1·03	1·20	0·31	0·70	0·32	6	7 86	16·10	?	42·83	?
NORTH BENGAL.	Pubna ...	Pubna ..	... ..	0·30	0·52	0·02	.....	0·03	0·45	5	2·22	9·22	10·03	24·06	25.19
		Serajgunge ..	1·24	2·89	0·44	0·53	0·11	0·11	0·50	7	5·81	12·94	11·38	31·41	26·74
	Bogra ...	Sherepore .	1·06	0·38	0·13	1·09	0·53	0·05	0·07	7	4·81	15·54	13·47	35·45	31·00
		Nowkuhla ..	3 30	1·10	0·81	0·05	0·42	0·81	0·05	7	7·45	15·99	11·56	34·03	28·27
		Bogra .	3·38	0·30	0·30	0·80	0·42	0·03	1·22	7	6·40	15·04	14·06	32·88	33 70
		Panchbibi	0·59	1 20	0·50	0·14	0·62	.....	2·40	6	5·45	13·53	12·97	39·56	29·05
	Rajshahye ...	Beaulesh .	2·55	2·83	0·14	0·68	0·72	0·23	0·05	7	7·20	22·73	12·38	43·23	25·15
		Nattore	2·70	2·06	0·17	0·70	... .	0·06	2 02	6	8·31	20·85	12·59	48·03	26·43
		Naogaon	0·84	... ..	0·60	.....	1·18	0·69	0·68	5	3·99	16·98	10·98	36·45	28·20
		Lalpore ...	0·40	1·33	1·65	.....	0·35	1·00	0·05	6	4·78	13·21	?	24·62	?
		Manda	0·90	.....	0·90	0·25	0·50	0·20	0·50	6	3·25	12·70	?	23·20	?
	Maldah ..	Maldah	.....	1·74	0·08	0·70	0·32	0·70	1·66	6	5·20	11·59	11·81	26·34	25·38
		Chanchal ...	0·03	1·10	0·11	3·00	1·19	0·02	1·25	7	6·68	13·88	13·11	26·50	28·89
		Gajol ...	0·25	1·00	0·25	1·20	1·36	...	1·70	6	5·76	18·70	?	34·23	?
		Sibganj ...	1·40	0·71	0·05	.....	0·28	0·59	1·07	6	4·10	16·03	?	34·92	?
	Dinagepore .	Mohadebpore	2·83	0·10	0·45	0·78	0·14	0·28	0·57	7	5·15	17·55	11·57	34·48	28·14
		Churamon ..	.....	3·81	0·27	0·18	0·54	.....	1·60	5	6·40	18·24	12·10	34·73	27·08
		Raigunge	... ..	2·85	0·21	0·26	1·24	... .	2 00	5	6·56	21·22	12 42	40·08	30·56
		Dinagepore	0·12	1·32	0·07	2·84	0·07	0·07	0·64	7	5·13	17·52	13·72	40 61	35·24
		Balooghat	0·50	1·83	0·43	1·08	1·38	.. ..	1·45	6	6·67	15·71	11·50	35·45	29·77
		Thakoorgaon	.....	0·84	0·80	.....	.. ..	0·53	0·45	4	2·42	16·01	?	48·53	?
	Rungpore ..	Buxwanigunge (*Gyabanda*)	1·85	1·99	4·60	0·37	0·20	0·30	2·32	7	11·63	18·69	13·47	47·04	34·89
		Rungpore ..	1·14	2·58	2·43	1·04	0·12	0 02	0·45	7	7·78	14·18	16 75	42·23	43·23
		Kurigrau .	1·11	1·51	1·15	0·05	0·40	0·10	1·05	7	5·17	13·97	13·91	48·57	45·81
		Bagdogra	0·85	0·59	0·12	0·95	.....	0·18	1·16	6	3·85	16·15	13·84	54·15	48·80
		(*Nilphamari*)	1·52	1·85	2·53	.....	.....	.....	2·46	4	8·36	11·74	r	40·71	?
		Ulipore ..	0·46	1·74	1·47	0·15	0·91	0·02	0·06	7	4·81	41·52	26·88	85·69	62·94
	Julpigoree ..	Julpigoree	1·12	2·49	2·30	0·81	0·40	0 57	0·60	7	8 25	39·00	?	97·66	?
		Alipore Duoa	3·22	3·15	2·17	.....	0·25	... ..	0·36	5	9·15	41 35	?	87·25	?
		Fallacotta ...	0·18	0 09	0·06	2·48	0·60	0·07	0·36	7	4·84	16·80	?	56·44	?
		Debiganj											?	95·98	?
	Cooch Behar	*Bhagatpore* (*Nagrakatta*).	6·71	1·65	2·1	3·11	1·39	0·71	0·89	7	16·65	57·73	13·91	63·28	53·61
		Dinhatta	1·93	5·26	1·6	1·18	1·56	0·41	2·41	7	14·44	19·73	22·87	84 75	68·59
		Cooch Behar	0·69	3·87	1·3	0·36	0·20	0·39	2·55	7	9·40	32·13	20·45	76·82	57·38
		Mekhligunge	1·21	1·55	0·22	0·03	0·15	.....	1·02	6	4·18	26 77	22·15	89·82	62·06
		Mathabhanga...	1·16	1·87	1·13	0·48	0·13	1 18	1·71	7	8·16	41·83	45·75	111·59	107 65
	Darjeelin Hill.	Buxa	1·17	4·19	1·54	5·46	1·42	0·81	0·65	7	15·24	61·20	28·20	103·52	61·40
		Silliguri .	8·80	5·28	2 85	1·54	2·10	0·20	1·00	7	21·77	70·04	26·53	96·11	57·44
		Darjeelin ...	4·03	3·06	4·01	2 86	2·98	1·81	2·74	7	22·69	61·37	26·27	75·79	46 48
		Kalimpong	4·58	1·74	2·04	1·00	1·20	0·90	0·47	7	11·82	52·53	?	119·38	?
		Kurseong ...	4·41	2·60	4·70	1·83	1·18	1·40	0 40	7	16·52	71·81			
NORTH BEHAR	Purneah ...	Kissengunge..	0·26	0·77	2·61	0·22	0·12	0·05	0·48	7	4·51	22·00	17·14	48·36	36·37
		Arrarean ..	0·29	0·36	2·18	....	0·69	0·20					16·23		32 40
		Purneah .	0·04	1·14	0·15	2·13	0 38	0·09	1·41	7	5·64	21·00	14·34	44·07	28·88
		Gondwara ...	4·47										?		?
		Balarampore	..	2·60	0·82	0·70	1·32	0·10	3·15	6	8·19	26·29	?	44·34	?
		Mazari ...	1·40	0·42	0·90	0·14	... .	0·30	0·36	6	3·51	15·15	?	29·78	?
		Kaliagani ..	1·80	2·09	1·43	0·3	1·83	0·25	0·25	7	8·45	27·37	?	58·54	?
	North Bhagulpore.	Maddapore	0·90	2·55	.....	1·04	1·66	...	0·35	5	6·50	23·85	11·91	40·26	22·05
		Scopool ...	0·28	4·32	3·41	1·81	1·17	0·54	0·12	7	11·65	26·43	11·48	36 22	23·05
		Protabganj ..	0·21	0·91	0 42	0 53	.....	.....	0·31	5	2·38	10·45	?	27·93	?
	Durbhunga ...	Tajpore ..	2·06	1·75	0·05	2·03	0·54	0·05	0·04	7	6·52	22·03	12·61	31·47	21·28
		Durbhunga ..	0·87	1·30	1·28	0·18	2·20	.....	.....	5	5·81	22·58	12·06	35·33	21·26
		Madhubani ..	1·50	3·51	1 78	1·39	1·36	0·58	.....	6	10·12	24·24	11·04	38·53	21·31
		Rahera ...	0·70	2·13	1·17	1·14	3·20	0·36	.....	6	8·70	20·02	?	34·76	?
		Rashera ...	2·05	0·55	1·25	0·77	0·12	0·10	1·63	7	6·27	17·40	?	28·09	?
	Mozufferpore	Sitamarhi ..	1·67	1·53	0·72	0·94	1·30	0·32	0·02	7	6·51	18·18	10·83	28·34	20·32
		Mozufferpore	1·65	1·77	0·87	1·24	0·42	0·22	.....	6	6·17	23·02	12·21	33·02	21·17
		Hajipore ...	1·11	1·18	0 19	2·95	0·52	1·57	0·65	7	8·17	20·08	12·08	30·32	20·61
		Pare ...	3·69	2·30	0·55	1·50	0·39	0·14	... ..	6	7·28	21·18	?	31·46	?
		Mahua ...	2·00	2·32	1·12	.....	0·45	.....	1·44	5	7·33	19·17	?	30·83	?
		Sachar ...	1·10	2·30	0·30	0·12	2·10	0·20	.....	6	5·12	15·88	?	28·68	?
		Pupri ...	1·72	2·00	1·12	0·74	0·76	0·17	0·19	7	6·70	20·30	?	32·80	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 1st of August 1890—*concld.*

Meteorological Division.	District.	Station.	Rainfall. Saturday, 26th July.	Sunday, 27th July.	Monday, 28th July.	Tuesday, 29th July.	Wednesday, 30th July.	Thursday, 31st July.	Friday, 1st August	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of July.	Average total rainfall from 1st of July.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —*concluded.*	Chumparun...	Motihari ...	3·59	2·07	0·54	0·17	2·24	0·23	... ..	6	9·44	24·30	10·02	42·28	20·22
		Bettiah ...	1·80	3·21	0·21	0·60	0·17	0·85	... ..	6	6·90	22·46	13·24	37·19	22·99
		Bagaha ...	3·56	5·91	0·21	2·50	1·96	0·25	0·03	7	14·48	20·90	?	47·18	?
		Barhurwa ...	4·49	4·43	0·18	0·03	2·25	0·69	0 03	7	12·10	20·52	?	36·40	?
	Sarun ...	Gopalgunge ...	1·24	1·34	1·70	3·60	0·27	0·84	0·09	7	9·07	15·47	13·09	25·82	20·77
		Dewan ..	1·13	0·64	2·29	0·13	1·36	0·58	1·45	7	7·58	10·20	12·14	33·40	20·12
		Chuprah ...	1·09	0·16	3·60	3·30	0·78	0·04	0·37	7	9·42	19·07	13·72	31·12	19·73
South Behar	Shahabad	Buxar ..	0·02	0·17	0·46	1·20	0·25	0·11	0·05	7	2·26	14·79	11·23	25·67	20·83
		Dehree ..	0 52	1·20	0·05	0·22	0·40	0·23	0·10	7	2·72	13·03	11·24	23·35	18·11
		Bhaboosh ...	1·28	0·30	0·35	0·26	0 06	... ..	0·04	6	2 89	1·19	13 52	22·95	19·39
		Sasseram ...	... ..	1·03	0·05	0·58	0·42	0·11	0·11	6	2·50	13·66	12·14	23·88	17·98
		Arrah ...	1·25	0·48	0·20	0·24	0 10	0·80	1·15	7	4·22	20·59	11·58	42·07	18·70
		Mohanich ...	0·90	0·40	1·10	.....	1·40	1·35	0·05	6	5·20	13·21	?	20 21	?
	Gya .	Aurungabad...	.....	1·30	0·65	0·16	0·05	0·13	.....	5	2·29	14·01	12 67	24·08	19·79
		Gya ...	.....	1·38	1·28	0·52	0·06	0·35	0·78	6	4·37	?2·45	13 43	33·51	21·00
		Nowadah ...	1·44	0·09	1·63	0·19	0·19	0·69	0·37	7	4·60	18·42	12·17	30·12	19·12
		Jehanabad ...	0·08	0·41	0·57	0·30	0·03	0·51	0·73	7	2·63	16·98	12 58	34·59	18 98
		Arwal ...	.....	3·20	0·50	2·50	.....	4·10	0·30	5	10·80		?		?
		Daudnagar ...	1·01	... ..	0·40	0·70	1·00	0·90	1·00	6	5·01	12·80	?	16·01	?
		Sherrghati ...	.....	1·00	0·80	.....	0·35	0·50	1·00	5	3·65	10·59	?	17·58	?
		Rajauli ...	1·00	1·20	... ..	... ..	0·33	.. ...	0·40	4	2·93	13·77	?	24 81	?
		PakriBarawan	.....	2·80	0·10	0·52	0·33	.....	0·40	5	4·15	14·40	?	33·88	?
	Patna .	Patna ...	0·88	1·80	0·11	2·78	0·12	1·74	... ..	6	7·43	17·41	12·36	26·68	20·83
		Dinapore .	1·90	1·85	0·10	0·81	0·61	0·25	0·07	7	5·59	14·92	12·00	24·10	19·76
		Behar ...	0·77	3·26	0·12	0·86	0·12	0·92	0·12	7	6·17	15·68	13 08	27·09	21·02
		Barrh ...	0·70	3·50	0·42	1·20	0·65	.....	0·42	6	6·89	14·18	12 79	22·13	19·30
		Bsokram ...	1·43	0·32	0·22	0·07	0·05	0·02	0·40	7	3·20	22·97	?	36·87	?
		Hilsa ...	0·18	.....	.....	0·99	0·87	0·65	0·48	5	3·16	14·18	?	30·85	?
	Monghyr ...	Begoosarai ...	0·32	3·27	0·58	1·29	1·20	.....	1·40	6	8·06	15·48	11·55	27·00	19·26
		Monghyr .	0·84	5·90	0·40	0·69	0·70	0·07	1·85	7	10·06	20·49	12 88	37·39	21·11
		Jamui ...	2·24	2 16	0·07	0·35	2·72	0 13	0·13	7	7·85	21 06	13 32	41·27	21·81
		Gogri ...	1·25	6 55	.....	1·27	2·35	0·46	2·25	6	14·13	30·45	?	45·60	?
		Shaikpura ...	0·61	.....	1 90	0·40	2·60	.....	3·10	5	8·61	15·74	?	29·93	?
	South Bhagulpore	Bhagulpore ...	.....	2 11	0·37	1·35	9·93	0 66	3·49	6	8·91	21·37	12·05	34·60	21·40
		Banka ..	.....	1·19	0·32	0 64	0·56	0·85	1·01	6	4·44	13·40	11·05	25 97	20·74
		Kilgong ...	0·04	2·50	0·50	0·82	.....	0·22	0·72	6	4·80	21·05	?	38·48	?
		Bangaon ...	1·14	13·33	...	.....	.....	.....	.....	2	14·47	25·20	?	40·78	?
	Sonthal Pergunnahs.	Rajmehal ...	0·82	0·91	... ..	0·36	0·25	0·40	3·48	6	6·22	13·55	13·32	29·54	26 69
		Godda ...	... .	2·50	0·03	0·75	0·25	0·20	1·50	6	5·23	18·68	11 72	32 64	26·04
		Pakour	0·24	1 18	0·59	0·31	0·30	0·10	0·98	7	3·59	14·38	12 54	40·37	28·08
		Nya Doomka	0·40	1·13	0·15	0·76	0·32	0·40	1·69	7	4 85	19·80	14·03	36·74	29·15
		Deogrur	1·20	1·22	0·06	0·27	3·72	0·21	1 00	7	7·68	18·50	14·09	31·06	24 46
		Jamtara ...	0·25	0·2	0·23	1·11	0·23	1·22	0 22	7	3·46	16·03	13·99	39·03	29·55
		Mohagama ...	.....	1·85	0·38	.....	1·26	0·85	2·15	5	6·50		?		?
		Nasmat ...	0·25	0·42	0·32	0·83	0·61	.....	0·91	6	3·36	11·22	?	18·48	?
Chutia Nagpur.	Hazaribagh ...	Pachamba .. (*Giridi*).	0·57	0 43	0·02	0·70	2·73	0·02	0·20	7	4·67	16·58	12·95	36·16	22·70
		Hazaribagh ...	0·60	0·76	0·47	0·66	0·10	0·10	0·05	7	2 74	20·14	13·83	20·92	22·49
		Semtagurah	0·85	0·70	0·54	0·10	0·28	.....	. ..	5	2·47	13 94	13·39	24·60	22·17
		Mahudi Hills											13·55		22·06
		Jhoomra Hills	3·80	0·10	0·70	0·60	0·40	0·20	.. .	6	5·80	20·50	17·43	3 4	28 95
		Barhi ...	0·24	1·90	0·40	0·10	0·15	0·04	2·60	7	6·23	20·31	?	29·02	?
		Chatra ...	0·37	0 56	0 60	2·20	0·50	....	0·04	6	4·27	17·36	?	25·46	?
		Karapdeha ...	0·75	0·33	0·36	0·27	1·25	0·53	0·17	7	3·66	17·21	?	34 81	?
		Ramghar ..	1·00	.....	.....	1·22	.....	.....	0·60	3	2·82	12·07	?	22·66	?
	Lohardugga...	Lohardugga ...	0·21	0·70	0·45	0·48	0·75	0·45	0·22	7	3·26	14·09	13·36	23·54	23·24
		Ranchi ...	.....	2·04	.. ...	1·20	0·77	2·85	1·20	5	8·06	14·82	14·76	25 18	25·44
		Palamow	1·20	0·01	... ..	1·10	0·50	0·06					13·13		20·22
		Silli ...	.....	0·90	... ..	1·80	2·00	.....	... ..	3	4·50	11·40	?	21·80	?
		Balumat ...											?		?
		Hossenabad...											?		?
		Garwah ...	.....	.....	0·50	0·08							?		?
	Singbhoom .	Chyebassa ...	.....	0·07	0·11	0·90	0·75	0·55	0·16	6	2·54	9·58	15·14	21·71	26·03
		Chakradharpore.											?		?
		Ghatsilla ...	... .	0·12	2·90	0·50	0·70	0·07	.....	5	4·29	16·88	?	31·42	?
		Baharagura...	0·50	.....	0·52		0·15						?		?
	Manbhoom ...	Purulia ...	0·08	0·42	0·85	0·18	0·53	0·18	0·06	7	2·30	11·48	13·56	26·38	24·35
		Gobindpore ..	0·32	1 42	0·10	0·13	0·40	0·16	0·04	7	2·57	10·13	12·29	22·29	21·14
		Raghunathpore.	... ..	0·29	.....	0·21	1·04	1·05	.....	4	2·59	17·76	?	34·20	?
		Barrabhoom	... .	1·50	0·60	1·00	1·50	0·80	.....	5	5·40	17·60	?	30·19	?
		Jhalua ...	0·52	.....	1·88	1·32	1·10	0·37	0·62	6	5·61	17·88	?	29·83	?
		Chas ...	0·25	1·55	0·15	0 33	2·60	0·27	0·50	7	5·63	12·50	?	28·34	?

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 5th August* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 1ST OF AUGUST 1890.

THE important features of the weather of the past week have been the very heavy continuous rain in the northern districts, moderate general rain in the south of the province with the exception of Orissa, and the very cool weather for the season which has prevailed in all districts. At the commencement of the week gradients were steep over the Bay with a strong monsoon blowing, and ships arriving in port reported fresh to strong breezes with heavy rain squalls The current from the Bay was confined to the eastern districts, as for several days a steady westerly wind was blowing over the western half of the province. The interaction of these two currents evidently caused the phenomenal rainfall which has been reported from Behar and North Bengal throughout the week, as amounts began to diminish when easterly winds recommenced and the Bay current was allowed to take its normal course up the Gangetic plain. Pressure has been generally above the normal, and changes have rarely exceeded a twentieth of an inch. At first there was a general small defect above a twentieth of an inch in Behar only, and then the ordinary wind circulation prevailed, except that directions were south or south-west in North Bengal and over the whole of South Behar, but the usual easterly winds continued at the western stations of North Behar. A brisk rise of pressure on the 27th over the western districts displaced the area of lowest pressure towards the east, and the inrush of westerly winds became general, very heavy rain being received in East and North Bengal and Behar. Pressure continued rising on the 28th, but a general slow fall on the 29th, increasing in amount towards the north-west, gave a more normal distribution, and easterly winds set in over North Bengal and North Behar; the rainfall at the same time, though still heavy, beginning to diminish in quantity, except in the west of North Behar. On the 30th pressure fell briskly in Orissa and slowly over the rest of the province, a very uniform distribution resulting over the western half of the province, but in the Bay and East Bengal gradients were still steeper than usual. Winds had an easterly tendency except in Chutia Nagpur and Orissa, where slow indraught was taking place towards the north-west corner of the Bay. Rainfall was very light except in the Darjeeling Hills and the west of North Behar; but even there amounts were only moderate. From the 30th till the end of the week a steady increase of pressure continued, normal monsoon winds were blowing in all districts, and temperature, though generally below the normal, was rising; while rainfall had ceased in Lower Bengal and was light, though general, elsewhere.

Pressure—Has never differed much from the normal, and has been more frequently above than below. The weekly means are hence above the normal at all stations, the difference being largest in South-West and East Bengal and Assam, where it is from two to three-hundredths of an inch. In the other districts it is generally between one and two-hundredths of an inch. The only occasions of changes greater than a twentieth of an inch were on the 27th, when it rose about ·07 inch in the western districts; on the 28th at a few stations in the east of the province; on the 30th in Orissa, where pressure fell ·06 inch; and on the 31st, when there was a rise of ·06 inch in Assam.

Temperature—Fell steadily during the first three days, rose on the 29th, again fell on the 30th, and then rose till the end of the week. Changes have generally been moderate and fairly regular, and the distribution has been everywhere largely below the normal. The mean defect for the week in Behar is 3·6°, in Assam 3·3°, in North Bengal and Chutia Nagpur 2·4°, in East Bengal 1·8°, and in Orissa and South-West Bengal 1·6°.

Rainfall—As compared with the normal, has been very heavy in North Bengal and Behar, moderately heavy in East Bengal and South Behar, about normal in South-West Bengal and Chutia Nagpur, and considerably below the normal in Orissa. The fall in North Bengal is exactly double the normal, and in North Behar nearly two and a half times the normal; while in East Bengal though the average fall is as heavy as in North Bengal, excess is only 1·5 inches. Rainfall in the south-west corner of the province, and especially in Orissa, has been rather scattered, but elsewhere rain has fallen at almost every station on every day of the week, as shown by the average number of rainy days being 6·5 in all districts except Orissa and South-West Bengal. In Orissa the heaviest fall was 3·6 inches at Cuttack; in South-West Bengal a few stations received from 5 to 8 inches, but generally falls were between 2 and 5 inches, the heaviest being Berhampore 11·4 and Jhenidah 9·5 inches. In Furreedpore and Dacca falls were under 5 inches, but elsewhere in East Bengal they were generally between 5 and 10 inches. Chittagong received 22 and Cox's Bazar 15·4 inches. In North Bengal falls were between 5 and 10 inches, except in Julpigoree, Cooch Behar, and the Darjeeling Hills. Siligoree and Darjeeling received about 22, Bhagatpore and Kurseong 16·5, Buxa 15, and Dinhatta 14 inches. The falls in North Behar were nearly always between 6 and 8 inches, Bagaha and Burhurwa, in the Chumparun district, receiving more than 12 inches. In Shahabad and Gya falls were generally under 5 inches and in the other districts of South Behar between 5 and 7 inches; while in Chutia Nagpur amounts were more irregular, ranging from 2 to 8 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 1st August 1890 :—

Meteorological Divisions	Temperature.						Rainfall.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above below normal mean of week.	Of week.			Rainy days.		Since 1st of July.		Since 1st May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average	Average.	Normal average.
Orissa	90·7	75·1	85·7	77·5	81·6	−1·6	1·02	2·85	−1·23	3·5	4·1	−0·6	12·29	13·78	26·57	23·65
South-West Bengal ...	89·3	75·2	86·8	77·2	82·0	−1·6	3·77	3·67	+0·10	5·4	4·5	+0·9	12·43	12·64	30·76	25·31
East Bengal	87·6	72·5	84·5	75·9	80·2	−1·8	6·56	5·01	+1·55	6·4	5·1	+1·3	20·08	17·18	42·66	30·81
North Bengal	88·6	74·1	85·5	76·8	81·2	−2·4	6·51	3·26	+3·25	6·5	4·7	+1·8	19·31	14·38	46·45	37·44
North Behar	88·2	74·9	84·3	76·9	80·6	−3·0	7·42	3·10	+4·32	6·0	4·0	+2·0	21·82	12·80	36·00	23·38
South Behar	8·9	74·3	83·7	76·7	80·2	−3·4	5·17	3·83	+1·34	6·5	4·2	+2·3	17·24	12·56	31·11	2·91
Chutia Nagpur	84·9*	69·4*	80·2*	71·1*	75·7*	−2·4*	4·02	4·01	+0·01	6·3	5·1	+1·2	15·16	13·94	26·28	23·61
Assam	89·6	74·3	85·0	76·3	80·7	−3·3										

* Chyebassa not included.

Meteorological Office, Bengal ; C. Little,
The 5th August 1890. *Offg. Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 27th July to 2nd August 1890.

Month	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
July ...	27th ..	29·610	81·3	85·9	9·2	76·7	81·6	79·5	·971	78 7	91	0·56
,, ...	28th ..	·658	81·4	86·9	11·1	75·8	83·1	80·5	1·008	79·5	89	0·55
,, ...	29th ...	·609	81·3	86·3	10·0	76·3	83·1	79·5	·961	78·0	85	0·09
,, ...	30th ...	·588	83·1	88·8	11·5	77·3	83·4	79·6	·956	77·9	83	..
,, ...	31st ...	·604	82·9	88·2	10·6	77·6	83·6	79·7	·962	78·1	83	0·21
August ...	1st ...	·653	83·2	89·0	11·7	77·3	85·1	80·5	·981	78 7	81	0·15
,, ...	2nd ...	·692	83 9	90·0	12·2	77·8	86 9	81·5	1·004	79 3	78	0·02

		Inches.
The mean 10 A.M pressure of the seven days		29·631
The mean temperature of the seven days		82 4
The extreme variation of temperature		14·2
The maximum temperature		90·0
		%
The mean 10 A.M. relative humidity of the seven days		84
		Inches
The total fall of rain from 27th July to 2nd August 1890		1·58

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 4th August 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal municipalities of Bengal for the week ending with Saturday, the 19th July 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 19th July 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 19·1 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1·4 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	22·5	21·4	16·9	19·3	22·5	20·5	19·1

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 28th June 1890.	5th July 1890.	12th July 1890.	19th July 1890.	Towns.	Weeks ending— 28th June 1890.	5th July 1890.	12th July 1890.	19th July 1890.
Burdwan	19·8	16·8	13·7	30·5	Narainganj	12·4	4·1	20·7	16·6
Midnapore	20·1	17·0	23·2	29·4	Chittagong	21·1	42·3	28·2	4·7
Hughli and Chinsurah	18·1	26·3	18·1	32·8	Comillah	38·5	34·7	3·8	7·7
Serampore	27·5	25·5	13·7	31·4	Patna	11·4	10·1	11·4	11·4
Utterpara	9·4	37·7	...	28·3	Gya	21·9	14·3	29·4	26·0
Howrah	13·2	21·2	17·2	14·3	Arrah	10·8	14·4	23·9	17·9
Bali	14·0	10·5	28·1	3·5	Mozufferpore	15·8	13·4	18·2	15·8
Kishnagar	26·5	1·9	17·0	15·1	Durbhanga	28·3	13·4	22·8	18·9
Ranaghat	6·0	18·0	18·0	12·0	Chupra	8·0	7·0	12·1	20·1
Santipore	17·5	12·3	10·5	19·3	Bhagulpore	21·7	29·9	19·9	25·3
Jessore		6·1	6·1	18·4	Monghyr	24·4	14·5	58·9	33·4
Rampore Beauleah	34·2	34·2	18·4	23·6	Purneah	3·5	17·3	3·5	6·9
Darjiling		14·8	37·0	22·2	Poori	14·7	23·1	14·7	10·5
Dacca	9·7	11·0	9·7	15·6					

It will be seen that last week the highest birth-rate was returned from Monghyr (33·4), and the lowest from Bali (3·5).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22· per 1,000 of the population. The rate of the week is 6·4 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—*vide* the figures below : —

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	39·7	24·8	27·2	20·1	30·1	28·4	22·0

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 28th June 1890.	5th July 1890.	12th July 1890.	19th July 1890.	Towns.	Weeks ending— 28th June 1890.	5th July 1890.	12th July 1890.	19th July 1890.
Burdwan	19·8	16·8	22·9	19·8	Narainganj	20·7	8·3	24·6	16·6
Midnapore	26·3	21·7	23·2	35·6	Chittagong	23·5	37·6	39·9	18·8
Hughli and Chinsurah	27·9	23·0	21·3	19·7	Comillah	34·7	46·2	26·9	26·9
Serampore	29·4	29·4	29·4	45·1	Patna	14·3	15·3	14·9	14·6
Utterpara	..	9·4	18·9	56·6	Gya	27·3	26·0	32·1	32·1
Howrah	8·6	8·6	11·5	16·0	Arrah	45·5	31·1	35·9	23·9
Bali	10·5	24·6	3·5	7·0	Mozufferpore	36·5	31·6	31·6	29·2
Kishnagar	..	13·2	3·8	3·8	Durbhanga	26·0	17·3	23·6	32·3
Ranaghat	...	6·0	18·0	6·0	Chupra	19·1	8·0	21·1	16·1
Santipore	7·0	14·0	8·8	17·5	Bhagulpore	16·3	15·4	15·4	10·0
Jessore	12·2	18·4	30·6	42·8	Monghyr	19·9	9·0	25·3	26·2
Rampore Beauleah	15·8	15·8	10·5	5·2	Purneah	27·7	10·4	13·9	10·4
Darjiling	59·3	51·9	22·2	37·0	Poori	245·5	86·0	65·0	44·1
Dacca	19·5	21·4	15·6	23·4					

It will be seen that last week the highest mortality occurred in the town of Utterpara (56·6), and the lowest in Kishnagar (3·8).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Serampore ...	11·8	Jessore ...	42·8	Midnapore ...	10·8	Serampore ...	19 6
Arrah ...	10·7					Poori ...	18·9
Mozufferpore ...	9·7					Midnapore ...	17·0
Midnapore ...	6·2					Gya ...	15·7
Chupra ...	4·0						
Durbhanga ...	3·1						
Patna City ...	2·3						

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2·5 from cholera, against 3·7 per 1,000 in the preceding week; ·4 from small-pox, against ·5; 8 6 from fever, against the same ratio; 3·1 from bowel-complaints, against 2·1; ·8 from injury, against ·5; and 6·6 from other causes, against 6· in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	23·5	Hindus ...	23·5	Under 1 year ...	159·8
Females	20·4	Mahomedans ...	18·9	1 and under 5 years ...	34·1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	115			5 „ 10 „ ...	16·9
				10 „ 15 „ ...	12·4
				15 „ 20 „ ...	14·8
				20 „ 30 „ ...	11·8
				30 „ 40 „ ...	14·5
				40 „ 50 „ ...	15 8
				50 „ 60 „ ...	22 8
				60 years and upwards ...	46·7

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 4th August 1890. *Sanitary Commissioner for Bengal.*

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								Sex.				
																											DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	9	11	20	13·7	16·8	30·5	81	..	...	5	4	1	3	13	...	...	7·6	6·1	1·5	4·6	19·8	22·9	7	6	20·2	19·5	103
Midnapore ...	Midnapore ...	16,937	16,633	33,560	12	7	19	18·6	10·8	29·4	171	4	...	1	7	...	11	23	6·2	...	1·5	10·8	...	17·0	35·6	23·2	14	9	43·0	28·1	153
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	11	9	20	18·0	14 8	32·8	122	..	1	6	3	...	2	12	...	1·6	9·8	4·9	...	3·3	19·7	21·3	6	6	19·7	19·7	100
Serampore ...	Serampore ...	13,559	12,937	26,496	11	5	16	21·6	9 8	31·4	220	6	...	7	...	...	10	23	11·8	...	13·7	...	...	19·6	45·1	29·4	14	9	53·7	36·2	148
	Utterpara	3,046	2,464	5,510	1	2	3	9·4	18·9	28·3	50	...	...	2	2	1	1	6	...	...	18·9	19·9	9·4	9·4	56·6	18·9	4	2	68·3	42·2	161
Howrah ...	Howrah	53,153	37,660	90,813	18	7	25	10·3	4·0	14·3	257	2	1	12	6	...	7	28	1·1	·6	6·9	3·4	...	4·0	16·0	11·5	17	11	16·6	15·2	109
	Bali	7,836	6,979	14,815	...	1	1	...	3·5	3·5	No male birth.	...	...	2	...	...	...	2	...	...	7·0	...	...	...	7·0	3·5	2	...	13·3	...	No female death.
Nudden ...	Kishnagar ...	13,363	14,214	27,477	5	3	8	9·5	5·6	15·1	166	...	...	2	...	...	...	2	...	...	3·8	...	...	...	3·8	3·8	2	...	7·8	...	Ditto.
	Ranaghat	4,028	4,655	8,683	2	...	2	12·0	...	12·0	No female birth.	..	...	...	...	1	3	4	...	...	...	...	6·0	18·0	24·0	18·0	1	3	12·9	33·5	38
	Santipore	13,708	15,979	29,687	6	5	11	10·5	8·8	19·3	120	...	...	7	...	1	2	10	...	...	12·3	...	1·7	3·5	17·5	8·8	6	4	22·8	13·0	175
Jessore ...	Jessore	4,830	3,665	8,495	...	3	3	...	18·4	18·4	No male birth.	...	...	7	...	...	...	7	...	...	42·8	...	...	..	42·8	30·6	4	3	43·1	42·6	101
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	5	4	9	13·1	10·5	23·6	125	...	...	1	...	...	1	2	...	...	2·6	...	...	2·6	5·2	10·5	...	2	...	11·5	No male death.
Darjiling ...	Darjiling	4,579	2,439	7,018	2	1	3	14·8	7·4	22·2	200	...	...	3	2	...	...	5	...	...	22·2	14·8	...	...	37·0	22 2	4	1	45·4	21·3	213
Dacca ...	Dacca	42,782	37,379	80,161	9	15	24	5·8	9·7	15·6	60	1	2	15	5	1	12	36	·6	1·3	9·7	3·2	·6	7·8	23·4	15·6	20	16	24·3	22·3	139
	Naraingani ...	7,605	4,956	12,561	1	3	4	4·1	12·4	16·6	33	...	...	3	...	...	1	4	...	...	12·4	.	...	4·1	16·6	24·8	1	3	6·8	31·5	21
Chittagong ...	Chittagong ...	13,340	8,790	22,130	1	1	2	2·3	2·3	4·7	100	...	...	4	3	1	...	8	...	...	9·4	7·0	2·3	...	18·8	39·9	5	3	19·5	17·7	110
Tipperah ...	Comillah	8,153	5,353	13,506	1	1	2	3·8	3·8	7·7	100	...	...	4	...	1	2	7	...	...	15·4	...	3·8	7·7	26·9	26 9	3	4	19 1	38·9	50
Patna	Patna City ...	78,762	81,475	160,237	20	15	35	6·5	4·9	11·4	133	7	2	11	8	...	17	45	2·3	·6	3·6	2·6	...	5·5	14·6	14·9	27	18	17 8	11·5	154
Gya	Gya	38,299	37,831	76,121	16	22	38	10·9	15·0	26·0	72	2	...	21	1	...	23	47	1·4	...	14·3	·7	...	15·7	32·1	32·1	29	18	38·4	24·7	159
Shahabad ...	Arrah	20,960	22,505	43,465	9	6	15	10 7	7·2	17·9	150	9	...	7	1	3	...	20	10·7	...	8·4	1·2	3·6	...	23·9	25 9	8	12	19·8	27·7	71
Mozufferpore..	Mozufferpore ...	23,084	19,658	42,742	5	8	13	6·1	9·7	15·8	62	8	...	2	6	3	5	24	9·7	...	2·4	7 3	3 6	6·1	29·2	31 6	10	14	22 5	37·0	61
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	9	15	24	7·1	11·8	18·9	60	4	...	17	9	1	10	41	3·1	...	13·4	7·1	·8	7 9	32·3	23·6	18	23	27·7	37·0	75
Sarun	Chupra	25,116	26,554	51,670	13	7	20	13·1	7·0	20·1	185	4	2	4	1	..	5	16	4·0	2·0	4·0	1·0	...	5·0	16·1	21·1	12	4	24·8	7·8	3.8
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	13	16	28	10 8	14·5	25·3	75	...	.	8	1	1	1	11	...	...	7·2	·9	·9	·9	10·0	15·4	4	7	7·0	13·1	53
Monghyr ...	Monghyr	28,154	29,366	57,520	14	23	37	12·6	20·8	33·4	61	3	...	13	3	1	9	29	2·7	...	11·9	2·7	·9	8·1	26·2	25·3	19	10	35·1	17·7	198
Purneah ...	Purneah	8,463	6,553	15,016	...	2	2	...	6·9	6·9	No male birth.	...	...	3	...	...	...	3	...	...	10 4	...	...	...	10·4	13·9	2	1	12·3	7·9	155
Poori	Poori	13,247	11,537	24,784	2	3	5	4·2	6·3	10·5	66	1	1	8	2	...	9	21	2·1	2 1	16·8	4·2	...	18·9	44·1	65·0	10	11	39·3	42·6	79
	Total ...	550,986	510,588	1,061,574	194	195	389	9·5	9 6	19·1	99	51	9	175	64	16	134	449	2·5	·4	8 6	3·1	·8	6·6	22·0	21·4	249	200	23 5	20·4	115

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		Deaths among—					Ratio per 1,000 of Population per annum.					Deaths.										Ratio per 1,000 of Population per annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	11	2	...	.	...	24·2	10·1	...	...	2	2	2	...	...	1	3	1	..	2	157·6	46·1	44·6	...	...	6·6	22·6	11·8	..	70·2
Midnapore ...	Midnapore ...	...	20	3	...	...	...	40·1	21·6	...	...	4	2	2	1	1	1	3	2	2	5	279·9	44·2	27·7	17·1	16·5	7·1	28·1	27·9	50·4	242 1
Hughli ...	Hughli and Chinsurah	...	10	2	..	...	..	20·6	16·9	...	...	2	1	1	...	...	3	...	2	2	1	129·5	23·4	18 0	...	...	25·1	...	24·9	40·0	25·1
Serampore ...	Serampore ...	...	22	1	..	...	..	45·3	55·4	...	...	3	6	2	2	2	1	2	2	2	1	219·7	172·9	41·4	46·8	47·6	9·7	20·9	30·8	54·3	37·4
	Utterpara	...	6	..	...	...	...	58·6	...	..	..	1	1	1	...	1	...	...	...	1	1	323·0	123·5	111·6	..	118·2	...	...	...	141 3	200·0
Howrah ..	Howrah	...	23	5	...	...		17·6	12·7	...	...	3	2	2	1	..	4	7	2	2	5	75·6	18·8	16·5	7·9	...	9·2	18·9	8·8	18·9	69·3
	Sali	...	2	...	...	...	...	7·8	...	...	...	...	1	1	...	...	...	...	..	...	...	...	52·1	48·8	...	...	...	...	...	...	...
Nuddea ...	Kishnagar	...	...	2	...	...	...	...	12·6	...	...	1	1	..	...	...	...	...	...	...	...	104·8	21·1	...	...	...	...	...	...	...	...
	Ranaghat	...	3	1	...	...	...	21·3	38·1	...	...	1	...	...	...	...	1	1	...	1	...	251·2	...	...	...	...	...	34·5	61·7	...	71·8
	Santipore	...	4	6	...	...	...	10·0	34·9	...	...	3	1	2	...	...	...	1	1	...	2	184·6	17·9	27·5	...	...	...	12·0	14·8	...	83·0
Jessore ...	Jessore	...	2	5	...	...	...	23·1	68·0	...	...	...	1	1	1	...	3	...	...	...	1	...	105·3	65·6	78·2	...	77·5	...	...	...	113·5
Baishakye ...	Rajapore Beauleah	...	2	...	...	...	...	10·5	...	...	...	1	...	...	...	...	...	...	...	1	...	128·1	...	...	...	...	...	...	...	41 9	...
Darjiling ...	Darjiling	...	5	...	...	...	...	56·6	...	...	...	1	1	1	...	...	...	1	1	...	...	429·8	80·9	83·9	...	...	...	36·3	75·1	...	...
Dacca ...	Dacca	...	18	18	...	...	...	23·2	23·8	...	...	3	6	...	2	2	5	7	4	1	6	82·2	42·3	...	13·1	14·2	17·0	31·2	24·8	11·9	56·0
	Narsinganj ...	...	2	2	...	...	...	16·4	16·9	...	...	2	...	...	...	...	...	...	1	...	1	372·8	...	...	...	...	...	...	37·3	...	79·8
Chittagong ...	Chittagong ..	...	2	6	...	...	...	17·9	20·4	...	...	1	1	...	1	...	1	...	1	...	3	92·4	26·4	...	20·2	...	11·2	...	23·0	...	196·0
Tipperah ...	Comillah	...	3	4	...	...	...	26·2	28·1	...	...	3	...	...	...	...	..	1	2	...	1	525·3	...	...	...	...	...	26·1	79·1	...	76·7
Patna	Patna City ...	...	37	8	...	...	...	16·2	10·2	...	...	14	7	3	2	2	6	4	1	4	2	168·9	24·9	9·3	7·2	9·3	10·8	8·9	2·8	14·7	7·5
Gya ...	Gya	...	41	6	...	...	...	35·5	19·4	...	...	12	5	3	...	2	2	2	9	3	10	348·6	40·9	22·3	...	19·9	7·1	4·1	47·9	23·7	101·0
Shahabad ...	Arrah	...	17	3	...	...	...	28·5	12·6	...	...	1	3	5	2	2	2	2	2	1	1	40·4	35·2	50·7	23·5	32·4	13·2	16·2	...	33 6	18·0
Mozufferpore ..	Mozufferpore ...	...	21	3	...	...	...	36·4	12·5	...	...	3	4	...	3	2	3	5	2	2	...	163·4	51·5	...	39·4	34·3	18·2	37 3	20 8	32·0	...
Durbhanga ...	Durbhanga ...	...	30	11	...	...	...	32 2	32·6	...	...	5	7	5	5	1	4	2	3	3	6	167·0	47·8	33·2	46·8	12·9	15·6	9·3	21·0	35·6	97·7
Saran	Chupra	...	10	6	...	...	...	13·1	26 2	...	...	1	3	1	2	4	...	2	...	1	2	36·9	30·2	8·7	20·7	59·9	...	13·4	...	12·6	30·6
Bhagulpore ...	Bhagulpore ...	...	7	4	...	...	...	9·2	12·1	...	...	2	1	1	1	1	1	1	...	1	2	87·1	9·6	8·9	8·3	13·4	4·8	5·6	...	12·2	28·9
Monghyr ...	Monghyr	...	21	8	...	...	...	24·4	33·1	...	...	8	2	2	...	2	7	2	1	3	2	280·1	16·7	14·7	...	27·5	35·2	11·7	8·2	39·2	29·0
Purneah ...	Purneah	...	2	1	...	...	...	11·3	9·2	...	...	...	...	...	...	...	1	...	2	...	...	...	..	...	...	...	15·8	...	56·1	...	...
Poori ...	Poori	...	21	...	...	...	...	44·5	...	...	...	1	3	1	...	1	2	4	1	3	5	171·6	36·9	23·2	...	28·0	19·7	31·3	15·6	69·9	144·0
	TOTAL ...	...	342	107	...	...	...	23·5	18·9	...	...	78	61	36	23	23	48	49	38	34	59	159·8	34·1	16·9	12·4	14·8	11·8	14·5	15·8	22·8	46·7

COMMISSIONER FOR BENGAL.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97¼ MILES.

Statement showing Quantities of Goods carried during the month of June 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
191	1. Grain ...	1,831	184	2,015	86,817	2,015	86,817	
1	2. Cotton ...	.....	.....	....	50	.....	90	
...	3. Oilseeds ..	.....	.....	.....	.....	..	..	
37	4. Salt ...	214	262	476	50,425	476	50,425	
4	5. Piece-goods ...	.....	14	14	19,300	14	19,300	
...	6. Metal ...	... ..	.....	.....	.....	.....	.....	
18	7. Building materials	2	89	91	464	20	282	
525	8. Miscellaneous ...	121	322	443	47,387	442	47,252	
13	9. Fuel ...	... ..	44	44	385	44	385	
5 rafts	10. Timber ...	147 c. ft.	42 c. ft.	189 c. ft.	164	189 c. ft.	164	
4 „	11. Bamboos ...	100 „	300 „	400 „	39	400 „	39	
789 & 9 rafts	12. Total ...	2,168 & 217 c. ft.	915 342 c. ft.	3,083 & 589 c. ft.	2,05,071	3,011 & 589 c.ft.	2,04,754	
646 & 1 raft.	13. Total of same month last year.	1,477 c. ft.	797 & 125	2,274 & 125 c. ft.	1,73,141	1,249 & 125 c.ft	1,72,104	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	390	399	789
15. Total number of boats plying passenger No.	70	52	122
16. Total registered tonnage, cargo Tons	4,507	3,559	8,066
17. Total registered tonnage, passenger Tons	957	536	1,493
18. Ton-mileage ...	174,884	149,330	324,214
19. Estimated value of cargo Rs.	1,02,767	1,02,101	2,04,868
20. Number of passengers No.	4,266	2,422	6,688
21. Rafts, bamboos C. ft.	100	300	400
22. Do., bullahs „	147	42	189
23. Estimated value of rafts Rs.	157	46	203
24. Tollage on boats „	3,069-12-6	2,605-10-6	5,675-7-0
25. Compounded tollage on boats Rs.	1-8-0	.....	1-8-0
26. Tollage on rafts „	0-12-0	1-2-0	1-14-0
27. Total tollage on boats per ton-mile Rs.	.....	... ..	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-1

	Rs. A. P.
Total tollage of month—24+25+26 ...	5,678 13 0
Total tollage of same month last year ..	4,962 13 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	6,395 10 9
2. Tollage per month ...	5,678 13 0
3. Total ...	12,074 7 9
4. Amount paid into treasury during the month ...	7,201 7 9
5. Balance due at the end of the month ...	4,873 0 0

Abstract for the month of June 1890 *as compared with the corresponding month of the previous year.*

	1890-91. During the month.	1890-91. To end of the month.	1889-90. During the month.	1889-90. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	5,678 13 0	17,496 0 0	4,962 13 0	15,361 14 9

CALCUTTA,
The 5th August 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of June 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
211	1. Grain ...	3,464	9	3,473	3,29,136	3,473	3,29,136	
7	2. Cotton ...	48	.....	48	24,300	48	24,300	
118	3. Oilseeds ...	1,902	14	1,916	2,59,962	1,916	2,59,962	
201	4. Salt ...	460	2,936	3,396	3,32,783	3,396	3,32,783	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
4	6. Metal ...	16	16	32	4,280	32	4,280	
99	7. Building materials	3,907	40	3,947	63,074	3,947	63,074	
1,559	8. Miscellaneous* ...	5,706	337	6,043	7,44,663	6,043	7,44,663	
285	9. Fuel ...	6,571	329	6,900	52,224	6,900	52,224	
.....	10. Timber ...	...	.....	.....	.....	.....	.....	
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
2,484	12. Total ...	22,074	3,681	25,755	18,10,422	25,755	18,10,422	
2,405 & 2 rafts.	13. Total of same month last year.	28,884 & 600 c. ft.	6,385	35,269 & 600 c. ft.	28,71,279	35,269 & 600 c.ft.	28,71,279	

* For details, see next page.

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	2,259	225	2,484
14a. Empty ...	1,236	300	1,536
15. Total number of boats plying passenger No.	472	1	473
16. Total registered tonnage, cargo Tons	76,420	9,763	86,183
17. Total registered tonnage, passenger Tons	871	4	875
18. Ton-mileage ...	6,19,880	97,630	7,17,510
19. Estimated value of cargo Rs.	14,70,729	3,39,693	18,10,422
20. Number of passengers No.	2,064	22	2,086
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs ,,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats ,,	15,403-13-0	2,393-4-6	17,797-1-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	C-0-4·76
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	17,797	1	6
Total tollage of same month last year ...	22,706	6	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	891	14	6
2. Tollage per month ...	17,797	1	6
3. Total	18,689	0	0
4. Amount paid into treasury during the month ...	17,777	3	0
5. Balance due at the end of the month ...	911	13	0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
51	(*a*) Jute ...	940	.....	940	1,05,300	940	1,05,300	
56	(*b*) Jaggery ...	572	.....	572	48,075	572	48,075	
6	(*c*) Sugar ...	41	.....	41	8,050	41	8,050	
2	(*d*) Tobacco ...	.....	12	12	2,800	12	2,800	
468	(*e*) Fish ...	73	1	74	20,623	74	20,623	
6	(*f*) Hides ...	3	.....	3	590	3	590	
54	(*g*) Poultry ...	12	.....	12	10,206	12	10,206	
83	(*h*) Hay and straw ...	535	.....	535	11,538	535	11,538	
21	(*j*) Oil ...	5	231	236	33,075	236	33,075	
31	(*k*) Earthenware ...	62	.....	62	861	62	861	
781	(*m*) Other miscellaneous ...	3,463	93	3,556	5,03,545	3,556	5,03,545	
1,559	Total Miscellaneous...	5,706	337	6,043	7,44,663	6,043	7,44,663	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of June 1890.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
735	1. Grain ...	3,874	10	3,884	3,28,402	3,884	3,28,402	* For details, see next page.
2	2. Cotton ...	15	.....	15	7,380	15	7,380	
29	3. Oilseeds ...	378	.....	378	54,850	378	54,850	
69	4. Salt ...	452	465	917	89,862	917	89,862	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....	
468	7. Building materials	5,389	8	5,397	20,423	5,397	20,423	
710	8. Miscellaneous* ...	2,695	16	2,711	2,60,883	2,711	2,60,883	
124	9. Fuel ...	1,793	.....	1,793	14,493	1,793	14,493	
1 raft.	10. Timber ...	.....	120 c. ft.	120 c. ft.	300	120 c. ft.	300	
7 rafts.	11. Bamboos ...	393 c. ft.	.....	393 „	65	393 „	65	
2,137 & 8 rafts.	12. Total ...	14,596 & 393 c. ft	499 & 120 c. ft.	15,095 & 513 c. ft.	7,76,658	15,095 & 513 c. ft.	7,76,658	
1,848 & 3 rafts.	13. Total of same month last year ...	11,356 & 200 c.ft.	386 & 1,101 c. ft.	11,742 & 1,301 c. ft.	8,42,315	11,742 & 1,301 c ft.	8,42,315	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	2,088	49	2,137
14*a*. Empty „	600	70	670
15. Total number of boats plying passenger ... No.	284	6	290
16. Total registered tonnage, cargo ... Tons	44,419	1,604	46,023
17. Total registered tonnage, passenger ... Tons	683	25	708
18. Ton-mileage	3,29,202	25,664	3,54,866
19. Estimated value of cargo Rs.	7,28,166	48,127	7,76,293
20. Number of passengers No.	1,768	78	1,846
21. Rafts, bamboos C. ft.	393	.....	393
22. Do., bullahs „	.....	120	120
23. Estimated value of rafts Rs.	65	300	365
24. Tollage on boats „	6,171-2-3	399-5-6	6,570-7-9
25. Compounded tollage on boats ... Rs.	.....	.....	.....
26. Tollage on rafts „	2-9-6	0-14-0	3-7-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·55
28. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-10-9

	Rs.	A.
Total tollage of month—24+25+26 ...	6,573	15
Total tollage of same month last year ...	5,764	5

Memorandum of Tollage.

	Rs.	A.
1. Balance not recovered on the 1st of the month ...	214	12
2. Tollage per month ...	6,573	15
3. Total	6,788	11
4. Amount paid into treasury during the month ...	6,502	6
5. Balance due at the end of the month ...	286	5

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
.....	(*a*) Jute ...	.....	.....	.....	.....	.....	.....
68	(*b*) Jaggery ...	533	3	536	45,075	536	45,075
2	(*c*) Sugar ...	9	.....	9	1,750	9	1,750
12	(*d*) Tobacco ...	121	.....	121	27,200	121	27,200
54	(*e*) Fish ...	14	.....	14	3,965	14	3,965
1	(*f*) Hides ...	1	.....	1	50	1	50
1	(*g*) Poultry ...	1	.....	1	50	1	50
133	(*h*) Hay and straw...	341	.....	341	7,465	341	7,465
31	(*j*) Oil ...	281	11	292	40,950	292	40,950
134	(*k*) Earthenware ...	170	.....	170	2,376	170	2,376
274	(*m*) Other miscellaneous.	1,224	2	1,226	1,32,002	1,226	1,32,002
710	Total Miscellaneous...	2,695	16	2,711	2,60,883	2,711	2,60,883

ABSTRACT FOR THE MONTH OF JUNE 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1890-91.				Traffic, 1889-90.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Calcutta and Eastern Canals ...	17,797	1 6	51,918	0 9	22,706	6 0	59,122	7 6
Tolly's Nullah	6,573	15 3	23,687	7 9	5,764	5 3	19,540	10 9
Total ...	24,371	0 9	75,605	8 6	28,470	11 3	78,663	2 3

CALCUTTA,
The 5th August 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 2nd August 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 2nd August 1890.			Week ending Saturday, the 3rd August 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	807	59,530	848	371	60,920	939
Jute	11	3,700	72	18	8,750	156
Firewood	94	45,625	685	180	76,325	1,228
Other articles	670	1,88,630	2,337	811	1.68,200	2,340
Total ...	1,082	2,97,485	3,942	1,380	3,14,195	4,663

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of May 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	7,869	2,355	12,964	2,067	10,224	15,031	.....	4,807
Cotton, raw	.....	201	6	322	201	328	.....	127
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	2,556	66	2,925	160	2,622	3,085	.....	463
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
4.—Rice	2,751	4,584	1,885	6,680	7,135	8,565	.....	1,430
5.—Others	1,215	9,595	1,032	10,844	10,810	11,876	.....	1,066
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	.....	309	4	543	309	547	.....	238
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.....	805	.....	1,542	805	1,542	.....	737
b.—Unscrewed	4	5,441	.....	2,388	5,445	2,388	3,057	.....
2.—Gunny-bags and cloth	160	1,499	390	1,197	1,659	1,587	72	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	801	66	930	201	867	1,182	.....	315
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	548	8	540	61	556	601	.....	45
3.—Others	416	11	287	36	427	323	104	.....
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	102	5,170	1,3	3,422	5,272	3,534	.....	3,262
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	53	846	147	130	899	277	621	.....
3.—Others	444	385	714	670	829	1,384	.....	555
Railway plant and rolling-stock	.....	.....	7,815	4,714	12,374	12,529	.....	155
Salt	5,633	33	7,622	22	5,655	7,644	.....	1,989
Sugar—								
1.—Drained	634	645	530	3,100	1,279	3,630	.....	2,351
2.—Undrained								
Tea—								
1.—Foreign	.....	671	.....	892	671	892	.....	221
2.—Indian								
Wood—								
1.—Timber	72	49	79	299	121	378	.....	257
2.—Firewood	1,627	.....	1,540	.....	1,627	1,540	87	.....
Tobacco	21	1,911	94	3,282	1,932	3,377	.....	1,445
All other articles of merchandise—								
1.—Unmanufactured	3,256	3,625	3,810	2,951	6,881	6,761	220	.....
2.—Manufactured								
Hay, straw, and woolco (C. & S.-E. Section) ...	425	.....	721	.....	425	721	.....	296
Total ...	28,676	38,274	44,197	30,525	72,124	94,722	4,151	18,789

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of May 1890.

INCREASES.

	Tons.
Jute, unscrewed	3,057
Serajganj, Goalundo, and the Northern Section contributed this increase.	
Betel-nuts	621
Principally in receipts from Bengal Central Flotilla stations and in upwards booking from Armenian Ghât. There were also transactions between Northern Bengal State Railway stations and from Narayanganj.	

DECREASES.

Coal	4,807
Sufficiency of stock for railway and flotilla consumption.	
Cotton piece-goods	463
Ordinary trade fluctuations.	
Rice	1,430
The decrease is from the Northern Section principally, and is said to be due to the dullness of the market.	
Jute, screwed	737
The decrease was from Narayanganj principally.	
Metals	315
Ordinary fluctuations.	
Oil-seeds	3,262
Due to dullness of the market and in some degree to lessened production.	
Salt	1,989
The decrease in this traffic cannot be accounted for.	
Sugar	2,351
Due principally to the short receipts from Bengal Central Railway short crops and no demand in Calcutta for this class of sugar.	
Tobacco	1,445
Due to decreased despatches from the Northern Section, said to be due to an unfavourable market.	

CALCUTTA, *the 29th July* 1890.

F. P. QUINLAN,
Examiner of Accounts.

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of June 1890, *as compared with the same month of the previous year.*

STAPLES.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	498	.....	588	.....	498	588	90	.....
Cotton raw	5	.....	12	.....	5	12	7	.....
Cotton piece-goods—								
1.—European	45	1	32	.....	46	32	.....	14
Grains—								
2.—Rice	1	3	95	.....	24	95	71	.....
3.—Gram	.....	11	.....	.....	11	.....	.....	11
4.—Others	5	13	45	.....	18	45	27	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	7	.....	3	7	3	.....	4
Jute—								
1.—Raw	.....	5	.....	177	5	177	172	.....
2.—Gunny-bags and cloths	10	1	1	.....	11	1	.....	10
Lac—								
1.—Stick	1	.....	1	.....	1	1	.....	.....
Liquors—								
1.—Beer	.....	.....	2	.....	.....	2	2	.....
2.—Wines	1	.....	1	.....	1	1	.....	.....
Metals—								
2.—Iron	8	.....	25	.....	8	25	17	.....
4.—Others	14	.....	9	4	14	13	.....	1
Oils—								
1.—Castor	1	.....	1	.....	1	1	.....	.....
2.—Kerosine	2	.....	2	.....	2	2	.....	.....
3.—Others	7	.....	10	.....	7	10	3	.....
Oilseeds—								
1.—Linseed	.....	254	.....	47	254	47	.....	207
2.—Mustard and rape	105	.....	47	.....	105	47	.....	58
Provisions—								
1.—Ghee	.....	.....	1	.....	.....	1	1	.....
2.—Dried fruits and nuts	2	3	.....	.....	5	.....	.....	5
3.—Others	23	20	1	65	43	66	23	.....
Paper and pasteboard	4	.....	.....	.....	4	.....	.....	4
Railway plant and rolling-stock	31	12	53	37	43	89	46	.....
Salt	132	.....	116	.....	132	116	.....	16
Silk, raw—								
2.—Indian	.....	16	3	17	16	20	4	.....
Silk piece-goods—								
2.—Indian	.....	2	.....	1	2	1	.....	1
Stone and lime	21	.....	20	.....	21	20	.....	1
Sugar—								
1.—Drained	49	.....	62	.....	49	62	13	.....
2.—Undrained	.....	.....	54	.....	.....	54	54	.....
Tobacco	6	.....	17	.....	6	17	11	.....
Timber	1	.....	5	.....	1	5	4	.....
All other articles of merchandise	123	18	229	27	140	256	116	.....
Total ...	1,114	366	1,431	378	1,480	1,809	661	322

	Tons.
INCREASE.	
Coal	90
This increase is due to greater import for storage.	
Grains—	
(2) Rice	71
This is due to greater export from intermediate stations.	
(4) Others	27
Due to import of paddy for greater demand.	
Jute—	
(1) Raw	172
This is chiefly due to despatches of Mr. Yules pressed jute by rail this year.	
Metals—	
(2) Iron	17
Chiefly due to despatches of old rails of East Indian Railway brought by public from Nalhati to Azimganj.	
Provisions—	
(3) Others	28
This is due to export of fresh fruits, chiefly mangoes, from Azimganj station this year.	
Railway plant and rolling-stock	46
Due to greater despatches of railway materials.	
Sugar—	
(1) Drained	13
Due to greater demand.	
(2) Undrained	54
Due to greater demand.	
DECREASE.	
Cotton piece-goods—	
(1) European	14
Chiefly in despatches from Calcutta by steamer.	
Grains—	
(3) Gram	11
This traffic is carried by steamer this year.	
Jute—	
(2) Gunny-bags and cloths	10
Due to the dull traffic in grains.	
Oil-seeds—	
(1) Linseed	207
The falling off is due to this traffic being carried by steamer.	
(2) Mustard and rape	58
Due to less import owing to the dull market at Azimganj neighbouring marts.	
Salt	16
Carried by boat.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	247,947	2,37,928 0 0	17,46,033 10	3,86,823 8 0	18,227 8 0	6,42,979 0 0	65,316½	74,958½	140,274½
Or per mile of railway	.....	155 15 6	.....	253 9 2	11 15 2	421 7 10	.....	.....	.....
For previous 3 weeks of half-year	641,420	6,31,828 13 0	53,83,677 10	11,75,945 13 0	51,174 10 0	18,58,899 4 0	177,966½	220,926½	398,893
Total for 4 weeks ...	889,367	8,69,756 13 0	71,29,710 20	15,62,769 5 0	69,402 2 0	25,01,878 14 0	243,282½	295,885½	539,167½
COMPARISON.									
Total for corresponding week of previous year	823,950	2,33,062 3 3	23,41,713 0	4,73,392 15 3	19,758 15 8	7,35,214 3 2	64,322	85,623	149,945
Per mile of railway corresponding week of previous year ...	.....	152 2 0	.....	310 5 10	12 15 3	475 6 4	.....	.....	.....
Total to corresponding date of previous year	1,012,856½	9,74,381 4 11	91,65,240 30	19,32,268 5 0	69,797 2 3	29,76,446 12 2	258,099	361,417	619,516

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 27th July 1889.			Receipts for week ending 26th July 1890.			Total receipts from 1st April 1889 to 27th July 1889.			Total receipts from 1st April 1890 to 26th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	7,25,214	475	1,525½	6,42,979	421	1,525½	1,50,05,197	579	1,525½	1,36,40,939	526	.....	13,64,258

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, on 57½ miles open

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	10,974	5,507 11 0	39,642 20	2,589 10 0	45 8 0	8,092 13 0	1,029	567	1,596
Or per mile of railway ..	192	96 4 7	693 10	44 6 5	0 12 9	141 7 9	.....	.....	.....
For previous 3 weeks of half-year	28,239	13,824 8 0	1,13,453 30	6,857 14 0	107 8 0	20,789 14 0	2,713	1,759	4,472
Total for 4 weeks ...	39,213	19,332 3 0	1,53,096 10	9,397 8 0	153 0 0	28,882 11 0	3,742	2,326	6,068
Comparison.									
Total for corresponding week of previous year	14,064	6,979 6 7	49,453 20	3,024 9 0	49 14 6	10,053 14 1	954	642	1,596
Per mile of railway corresponding week of previous year ...	256½	122 0 3	864 30	52 14 0	0 14 0	175 12 0	... .	.....	.....
Total to corresponding date of previous year	44,888	22,570 8 7	2,16,202 30	11,005 4 0	162 0 3	33,746 12 10	3,622	2,761	6,383

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 27th July 1889.			Receipts for week ending 26th July 1890			Total receipts from 1st April 1889 to 27th July 1889.			Total receipts from 1st April 1890 to 26th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	10,054	176	57½	8,093	141	57½	1,47,743	152	57½	1,56,496	161	8,753	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,257	4,253 3 0	4,162 30	151 3 0	8 0 0	4,412 6 0	919	49	968
Or per mile of railway	.....	191 2 6	.. ...	6 12 8	0 5 9	198 4 11	... ..	.....	.....
For previous 3 weeks of half-year	54,829	13,310 0 0	12,294 30	437 12 0	21 2 0	13,768 14 0	2,458	160	2,618
Total for 4 weeks ...	72,086	17,563 3 0	16,457 20	588 15 0	29 2 0	18,181 4 0	3,377	209	3,586
Comparison.									
Total for corresponding week of previous year	15,722½	3,798 12 8	3,115 20	114 14 0	—0 8 0	3,913 2 8	939	29	968
Per mile of railway corresponding week of previous year ...	.....	170 11 9	.....	5 2 7	—0 0 4	175 14 0	.....	.....	.....
Total to corresponding date of previous year	80,170	18,840 0 0	[illegible],644 0	702 12 0	8 15 6	19,551 11 6	3,684	144	3,828

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 27th July 1889.			Receipts for week ending 26th July 1890.			Total receipts from 1st April 1889 to 27th July 1889.			Total receipts from 1st April 1890 to 26th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,913	176	22½	4,412	198	22½	1,02,189	270	22½	1,03,509	274	1,320	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 19th July 1890, on 767 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	127,595	50,970 0 0	5,14,680 0	1,08,170 0 0	14,900 0 0	1,83,040 0 0	22,890	28,211	51,101
Or per mile of railway	166	78 0 0	671 0	141 0 0	*1 0 0	220 0 0	.....	.....	.....
For previous 2 weeks of half-year	310,850	1,18,680 0 0	7,01,840 0	1,36,630 0 0	22,530 0 0	2,77,840 0 0	38,965	52,130	91,095
Total for 3 weeks ...	438,440	1,76,650 0 0	12,16,520 0	2,44,800 0 0	37,430 0 0	4,60,880 0 0	61,855	80,341	142,196
COMPARISON.									
Total for corresponding week of previous year	124,666	55,780 0 0	4,06,570 0	79,223 0 0	17,541 0 0	1,52,544 0 0	23,024	24,233	47,257
Per mile of railway corresponding period of previous year ...	167	75 0 0	544 0	106 0 0	*2 0 0	183 0 0	.....	.....	.....
Total to corresponding date of previous year	439,676	1,76,790 0 0	12,42,875 0	2,16,003 0 0	40,797 0 0	4,33,596 0 0	66,592	67,945	134,537

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 20th July 1889.			Receipts for week ending 19th July 1890.			Total receipts from 1st April 1889 to 20th July 1889.			Total receipts from 1st April 1890 to 19th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	1,52,544	204	767	1,83,040	239	687	25,60,038	234	760	*27,02,868	227	1,94,830	.....

* Audited up to week ending 7th June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	25,630	9,210 0 0	46,180 0	2,250 0 0	140 0 0	11,600 0 0	3,604	2,059	5,663
Or per mile of railway	205	74 0 0	369 0	18 0 0	1 0 0	93 0 0	.....	.....	.....
For previous 2 weeks of half-year	56,282	18,290 0 0	59,420 0	3,530 0 0	260 0 0	22,080 0 0	6,211	3,528	9,739
Total for 3 weeks ...	81,912	27,500 0 0	1,05,700 0	5,780 0 0	400 0 0	33,680 0 0	9,815	5,587	15,402
COMPARISON.									
Total for corresponding 13 days of previous year	26,525	9,560 0 0	37,972 0	2,232 0 0	[31 0 0	11,823 0 0	3,560	2,112	5,672
Per mile of railway corresponding period of previous year ...	212	77 0 0	304 0	18 0	.....	95 0 0	.....	.....	.....
Total to corresponding date of previous year	88,399	28,946 0 0	1,01,950 0	6,142 0 0	163 0 0	35,252 0 0	10,032	6,234	16,266

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 20th July 1889.			Receipts for week ending 19th July 1890.			Total receipts from 1st April 1889 to 20th July 1889.			Total receipts from 1st April 1890 to 19th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	11,823	95	125	11,600	93	125	2,15,099	106	125	*2,00,313	100	.....	14,786

* Audited up to week ending 7th June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	9,410	4,310 0 0	8,300 0	960 0 0	110 0 0	5,380 0 0	2,414	690	3,104
Or per mile of railway	109	50 0 0	97 0	11 0 0	1 0 0	62 0 0	.....	.....	.....
For previous 2 weeks of half-year	27,350	8,330 0 0	21,780 0	2,190 0 0	150 0 0	10,670 0 0	4,172	1,183	5,354
Total for 3 weeks ...	36,760	12,640 0 0	30,140 0	3,150 0 0	260 0 0	16,050 0 0	6,586	1,872	8,458
Comparison.									
Total for corresponding week of previous year	12,650	4,011 0 0	5,631 0	635 0 0	37 0 0	4,083 0 0	2,456	923	3,379
Per mile of railway corresponding period of previous year	147	47 0 0	65 0	7 0 0	....	54 0 0	.....	.....	.....
Total to corresponding date of previous year	40,007	12,026 0 0	47,588 0	2,020 0 0	704 0 0	14,750 0 0	7,080	2,107	9,187

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 20th July 1889.			Receipts for week ending 19th July 1890.			Total receipts from 1st April 1889 to 20th July 1889.			Total receipts from 1st April 1890 to 19th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	4,083	54	86	5,380	62	86	89,029	65	86	*97,568	71	8,539	.....

* Audited up to week ending 7th June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,210	1,190 0 0	15,790 0	860 0 0	10 0 0	2,060 0 0	510	444	954
Or per mile of railway ...	118	44 0 0	579 0	32 0 0	. ...	76 0 0	.....	.....	.....
For previous 2 weeks of half-year	6,070	2,100 0 0	28,490 0	1,500 0 0	20 0 0	3,620 0 0	1,000	775	1,775
Total for 3 weeks ...	9,280	3,290 0 0	44,280 0	2,360 0 0	30 0 0	5,680 0 0	1,510	1,219	2,729
Comparison.									
Total for corresponding week of previous year	2,446	968 0 0	7,413 0	490 0 0	11 0 0	1,469 0 0	586	395	981
Per mile of railway corresponding period of previous year ...	90	36 0 0	272 0	18 0 0	.....	54 0 0	.....	.....	.....
Total to corresponding date of previous year	8,349	3,213 0 0	23,808 0	1,629 0 0	45 0 0	4,887 0 0	1,608	1,117	2,725

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 20th July 1889.			Receipts for week ending 19th July 1890.			Total receipts from 1st April 1889 to 20th July 1889.			Total receipts from 1st April 1890 to 19th July 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,469	54	27¼	2,060	76	27¼	30,466	70	27¼	*31,313	72	847	.....

* Audited up to week ending 31st May 1890.

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAYS.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the week ending 19th July 1890, on 315 miles open.

	* COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILE	
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.
		Rs.	MDS.	Rs.	Rs.	Rs.		
Total traffic for the period on 315 miles open	38,611	13,049	1,42,381	13,170	2,270	28,489	4,927	6,472
Or per mile of railway	123	41	452	42	3	86*	.....	.....
For previous 1 week of half-year	60,959	21,115	2,54,102	26,253	3,627	50,995	8,522	11,578
Total for week ...	99,570	34,164	3,96,483	39,423	5,897	79,484	13,449	18,050
COMPARISON.								
Total for corresponding period of previous year on 273 miles open	36,364	11,915	2,25,550	18,337	3,391	36,643	4,734	5,843
Per mile of railway corresponding week of previous year ...	133	44	826	67	1	112*	.....	.....
Total to corresponding date of previous year	118,018	42,300	6,01,924	49,882	9,627	1,01,809	13,958	16,658

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

RECEIPTS FOR WEEK ENDING 20TH JULY 1889			RECEIPTS FOR WEEK ENDING 19TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 20TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 19TH JULY 1890.			Total increase in 1890-91	To decre 1890
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	R
273	33,643	123	315	28,489	90	273	6,20,130	151	280·25	6,77,928	161	57,198	...

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.	A.	P.
Approximate earnings for first 12 days of July 1890	15,923		
Corresponding period of 1889	13,156		
Increase	2,767		
Receipts per mile for first 12 days of July 1890	312	3	5
Corresponding period of 1889	257	15	4
Increase	54	4	1

Printed and published by EDWIN MORRIS LEWIS, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 6th August 1890.

APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 6, 1890.

[Second Publication.]

PUBLIC WORKS DEPARTMENT,—MARINE.

NOTICE.

The 29th July 1890.—The following draft of rules, which it is proposed to issue under section 29 of Act VI of 1884 (as amended by section 11 of Act III of 1890), for the grant of certificates of service to masters, engineers, and engine-drivers of inland steam-vessels, is published for general information. These rules will be taken into consideration on the expiry of a month from the date of their first publication in the *Calcutta Gazette*, and the Lieutenant-Governor will receive and give due attention to any objections or suggestions which may be made by any person within that period.

J. M. McNEILE, *Col.*, R.E.,

Secretary to the Government of Bengal.

1. A certificate of service will be granted to any person who has served as a master, or as a engineer, or as an engine-driver of an inland steam-vessel before the first day of April 1890, and who, in the opinion of the Local Government, is qualified for the duties which such certificate will entitle him to perform.

2. Applications for certificates of service must be made upon the appropriate form [Certificate of Service 1], and must be submitted to the Port Officer of Calcutta, together with the applicants' testimonials and any other evidence which they may have to offer in respect of their qualifications.

3. A fee according to the following scale shall be paid for each certificate of service :—

	Rs.
First class master	10
Second ditto	5
Engineer	10
Engine-driver	5

4. Certificates of service shall be made and issued in the forms hereunto annexed.

5. Every certificate of service shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

Form A.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Service

AS

FIRST CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To .....

Whereas *it has been proved to the satisfaction of the Local Government that you have served as Master of an Inland Steam-Vessel before the first day of April* 1890, *and that you are qualified to fulfil the duties of First-class Master of an Inland Steam-Vessel, I do hereby grant you this CERTIFICATE OF SERVICE as such First-class Master.*

By order of the Government of Bengal.

Given under my Hand and Seal.

Under-Secy. to the Govt. of Bengal.

This ..... *day of* ..... 18 ....

Endorsement on Form A.

No. of Certificate .....

Address of Owner .....

Date and Place of Birth .....

Signature .....

Any Master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Issued at Calcutta on the ..... *day of* ..... 18 .....

Registered,

Port Officer of Calcutta.

Form B.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Service

AS

SECOND CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To _____

Whereas *it has been proved to the satisfaction of the Local Government that you have served as Master of an Inland Steam-Vessel before the first day of April* 1890, *and that you are qualified to fulfil the duties of Second-class Master of an Inland Steam-Vessel, I do hereby grant you this CERTIFICATE OF SERVICE as such Second-class Master.*

By order of the Government of Bengal.

Given under my Hand and Seal.

Under-Secy. to the Govt. of Bengal.

This _____ *day of* _____ 18 ____.

Endorsement on Form B.

No. of Certificate [redacted]

Bearer _____ *son of* _____ *by caste* _____

Date and Place of Birth showing Village, Thana, and District* _____

Residence showing Village, Thana, and District _____

Height _____

Personal description, stating particularly any permanent marks or scars _____

Signature _____

Any Master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Issued at Calcutta on the _____ ***day of*** _____ 18 ____.

Registered,

Port Officer of Calcutta.

* If not known exactly must be stated on the best information or evidence available.

Form C.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Service

AS

ENGINEER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To _____

Whereas *it has been proved to the satisfaction of the Local Government that you have served as Engineer of an Inland Steam-Vessel before the first day of April* 1890, *and that you are qualified to fulfil the duties of Engineer of an Inland Steam-Vessel, do hereby grant you this CERTIFICATE OF SERVICE as such Engineer.*

By order of the Government of Bengal,

Given under my Hand and Seal.

Under-Secy. to the Govt. of Bengal.

This _____ *day of* _____ 18____.

Endorsement on Form C.

No. of Certificate _____

Bearer _____

Date and Place of Birth _____

Signature _____

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Issued at Calcutta on the _____ *day of* _____ 18____.

Registered,

Port Officer of Calcutta.

Form D.

By the Honourable the Lieutenant-Governor of Bengal.

Government of Bengal.

Certificate of Service

AS

ENGINE-DRIVER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To _____

Whereas *it has been proved to the satisfaction of the Local Government that you have served as Engine-Driver of an Inland Steam-Vessel before the first day of April* 1890, *and that you are qualified to fulfil the duties of Engine-Driver of an Inland Steam-Vessel, I do hereby grant you this CERTIFICATE OF SERVICE as such Engine-Driver.*

By order of the Government of Bengal,

Given under my Hand and Seal.

Under-Secy. to the Govt. of Bengal.

This _____ *day of* _____ 18____.

Endorsement on Form D.

No. of Certificate [redacted]

Bearer ___ ___ *son of* ___ *by caste* _____.

Date and Place of Birth showing Village, Thana and District* _____

Residence shewing Village, Thana and District _____

Height _____

Personal description, stating particularly any permanent marks or scars _____

Signature _____

Issued at Calcutta on the _____ *day of* _____ 18____.

Any Engine-Driver who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Registered,

Port Officer of Calcutta.

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* If not known exactly must be stated on the best information or evidence available.

[REGISTERED No. 29.]

No. 33 of 1890.



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 13, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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REVISION OF APPENDIX A OF THE ACCOUNT RULES UNDER THE BENGAL MUNICIPAL ACT, 1884.

THE following is published for general information.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

The 12th August 1890. *Secretary to the Govt. of Bengal.*

MUNICIPAL DEPARTMENT—MUNICIPAL—No. M $\frac{2R}{18}$ 8.

Dated Calcutta, the 4th August 1890.

From—H J. S. COTTON, Esq., Secretary to the Government of Bengal,
To—All Commissioners of Divisions.

I AM directed to forward to you, for communication to all municipalities in your Division, a copy of a letter from the Accountant-General, Bengal, No. $\frac{LA}{152}$, dated 9th July 1890, together with its enclosure.

2. That enclosure is a revision of Appendix A to the Account Rules for municipalities issued under section 82 of the Act, and prescribes a revised procedure with suitable forms for adoption by municipalities in collecting taxes and rates. The revision of the Account Rules under section 82 is in progress, but it is not thought desirable to sanction any revised rules during the current

year. In the meantime, however, the revision in regard to procedure is complete, and the accompanying Appendix A, with the letter from the Accountant-General explaining the changes made, is now circulated for the information and guidance of municipalities. Wherever possible, the new procedure should be introduced at once, and it is the desire of Government that it should be everywhere adopted with effect from the 1st April 1891.

3. One important feature in the forms herewith prescribed is that the remission register, the tax collector's daily register, and the progress register, provide columns for the transactions of two years only. The Lieutenant-Governor entirely concurs with the Accountant-General that it is necessary to enforce greater punctuality in dealing with municipal taxation. In many municipalities the accounts are now four or five years in arrear without any excuse or justification. It commonly happens that the executive is in arrear with taxation, and that the outstandings cannot be clearly ascertained and proved from the registers, and the audit therefore for practical purposes breaks down, a certified list of outstandings being obtained and accepted as the basis of audit. This unsatisfactory state of things is due principally to laxity in management, but also in some measure to certain imperfections which experience has detected in the taxation accounts. The object of the revised forms and procedure is to remedy these defects.

4. In the Lieutenant-Governor's opinion not more than one complete year of arrears should ever be allowed. Taxes should always be collected or remitted with far greater promptitude than is now done. Municipalities which, like Ranchi and Kurseong, work in a business-like manner, never have more than two quarters' arrears, and very often not more than one; and if municipalities generally avail themselves of the means provided in sections 120 to 129 of the Act, there is no reason why taxation should ever be allowed to fall into arrear for a long period.

5. The revision of assessments in municipalities is also a very important duty which the Lieutenant-Governor desires to take this opportunity of impressing on Municipal Commissioners. In some municipalities this duty is properly discharged, but in too many it is entirely neglected. Mr. Atkinson rightly points out that the new rules and forms should be accompanied by a revision of assessments, and the Lieutenant-Governor trusts that the immediate attention of Municipal Commissioners may be turned to this question, so that the revised assessment and new forms may be introduced together without delay.

APPENDIX A.

Procedure to be adopted by Municipalities in Bengal for the collection of taxes upon occupiers of holdings, rates upon the annual value of holdings, latrine rates, lighting rates and water rates.

General outline of the Taxation Accounts.

1. The municipality is divided into taxation circles, and these are sub-divided into mohallas, streets, roads, &c., according to convenience.

A complete and separate set of registers is maintained for each circle, and from the circle registers the results are compiled for the whole municipality.

Circle Accounts.—The Demand Registers show the demand to be made against each rate-payer. The totals are brought on to Abstracts. Subsequent remissions in respect of the next demand are entered in the Remission Registers, whence the details pass into the Demand Registers, and the totals into the Abstracts in correction of the demand previously shown therein. Additions to the demand are similarly treated through the Enhancement Registers.

Bills made out are registered and are satisfied by payment or remission in whole or in part, payments being posted into the Bill Registers from the sircar's daily collection accounts, and remissions from the Remission Registers.

Compilation of the municipal accounts.—The total municipal demand is compiled from the circle abstracts into an abstract for the whole municipality, and passes into the tax-darogah's daily register for the quarter concerned. There will be as many of these tax-darogah's daily registers in use as there are quarters in respect of which there are bills outstanding. See rule 47.

Against each quarter's demand are written up daily (*a*) the payments in respect of that demand taken from the several sircar's collection accounts; (*b*) the remissions from the Remission Registers; and (*c*) the outstandings.

Lastly, the daily registers are abstracted and a monthly progress statement is worked out for each sircar, so that the outstandings for each quarter can be checked and compared with the undelivered receipts in the hands of the collecting agency, and all arrears can be promptly dealt with either by enforcing payment or remitting the amounts.

N.B.—It will be observed that the Remission Registers, the sircar's daily registers, and the monthly progress statements provide for transactions relating to the current and previous year only. Except under very special and unusual circumstances, taxation should never be allowed to fall into arrears extending over more than one complete year, and municipalities which deal promptly with taxation seldom have more than two quarters' arrears or three at most.

Rules 51 to 56 below prescribe the procedure to be adopted by the Municipal Commissioners in watching the taxation accounts, in reporting upon arrears and in clearing the registers.

Division of the Municipal area into Circles.

2. The municipality shall be divided into collecting circles by a calculation based on the area of ground to be traversed and the number of bills to be delivered. Each circle shall be numbered, and to each circle shall be appointed a sircar. The collecting circles should be as compact as possible, and so arranged as to distribute the work of tax collecting evenly among the sircars. No collecting circle shall contain more houses than can be visited by one sircar during the working days of a month.

3. The circles having been determined, and the assessment list, or the valuation and rating list prescribed by section 112 of the Act having been published, the registers of the municipal rates and taxes shall be opened.

4. Whenever a municipality levies a house-rate upon owners, and also a rate or rates upon occupiers for water, latrines or lighting, a double set of registers shall be opened, *i.e.*, one set for owners and the other for occupiers.

5. The procedure of opening and maintaining both of these sets of registers is alike. For the sake of brevity therefore the procedure as regards owner's house-rate only is described in the following rules. But the rules apply equally to the house tax and to rates leviable from occupiers.

6. Similarly, to avoid duplication the specimen forms annexed have been drawn out and headed as for owner's house-rate only, but with slight and obvious verbal modifications they are equally adapted to the house tax, and to the water, latrine, and lighting-rates which are leviable from occupiers, and the necessary additional columns must of course be introduced when more than one tax or rate is levied from occupiers.

7. The following is a list of the forms and registers which shall be kept :—

Demand Registers by circles.
Demand Abstracts by circles.
Demand abstract for the whole municipality.
Bill forms.
Bill Registers by circles.
Sircar's Collection Registers by circles.
Tax-darogah's Daily Registers by quarters.
Abstracts of Tax-darogah's Daily Registers, by quarters.
Progress Statements by circles.
* Petition Register. [This may also, if convenient, be kept by circles.]
Remission Registers by circles.
Enhancement Registers by circles.

THE DEMAND REGISTERS.

The Demand Registers shall be in Form A.

FORM A.

CIRCLE No.

Demand Register of Rate on the Annual Value of Holdings levied under Act III (B.C.) of 1884.

Number on rating list published under section 112 or serial No. in the enhancement register if subsequently added.	Description of holding.	Owner's name.	ORIGINAL RATE.				SUBSEQUENT REVISIONS.			Reference to page and entry in the Register of Remissions, or in the Register of New and Improved Holdings.	Initials of the Vice-Chairman.	REMARKS.
			As per rating list.		As per first demand.			Future rate.				
			Annual value of holding.	Quarterly instalment.	Annual value of holding.	Quarterly instalment.	Date of revising order.	Annual value of holding.	Quarterly instalment.			
1	2	3	4	5	6	7	8	9	10	11	12	13

a separate volume shall be assigned to each collecting circle, and a sub-division of the volume to each mohulla, road or street as may be most convenient: a sufficient space being left below each sub-division for subsequent entries of new holdings.

N. B.—The same sub-divisions in the same order shall be followed in posting the Bill, the Remission and the Enhancement Registers.

9. Columns 1 to 5 shall be filled up from the rating list; and a space of 2½ or 3 inches shall be left between each name in order to provide room for posting revisions.

10. As petitions against the rating list come in [see rules 19 and 20 below], their numbers and date shall be noted in column 13, "Remarks," in order to keep the entries to be made in columns 6 and 7 open to the latest convenient date.

11. Columns 6 and 7 shall be filled up as follows:—

First.—In respect of those names against which there is no reference to petitions in column 13, by entering the same amounts as are shown in columns 4 and 5 respectively.

Secondly.—In respect of those names against which the receipt of a petition has been noted, by entering the amounts shown in the orders passed by the Commissioners of Appeal, or, if no orders have been passed in time, the amounts shown in columns 4 and 5 respectively.

12. Columns 6 and 7 shall be totalled by sub-divisions. The Vice-Chairman, the Secretary, or a Commissioner appointed for the purpose, shall then carefully compare the entries in columns 1 to 7 with the rating list, and with the orders of the Commissioners of Appeal, and shall sign his name below each sub-divisional total in token of having made this comparison. Each sub-divisional total shown in column 7 shall then be posted into the quarterly demand abstract of the circle in Form B, which shall be prepared on the opening pages of each Demand Register.

13. Columns 8 to 11 shall be filled up from columns 3, 25, and 26 of the Remission Register, or from columns 2, 8, and 9 of the Enhancement Register, as the case may be.

14. The Vice-Chairman shall take care that the Demand Registers are free from erasures, and no alteration shall be made in them except under the initials of the Vice-Chairman or other officer empowerd to sign for him.

ABSTRACT OF DEMAND FOR EACH CIRCLE.

15. The abstract shall be prepared in the opening page of each Demand Register. It shall be in Form B.

FORM B.

CIRCLE No.

Quarterly Abstract of the demand on account of Owner's House-rate during the currency of the Valuation published in the year .....

	SUB-DIVISIONS OF THE CIRCLE.						TOTAL.	REMARKS.
	No. 1.	No. 2.						
Demand for the [First] quarter of 18								
Add new and improved holdings during the quarter (as per total of column 11 of Enhancement Register) ...								
Total ...								
Deduct remissions granted during the quarter (as per total of column 28 of Remission Register)								
Demand for the [Second] quarter of 18								
(and so on)								

16. The first entries shall be posted from the sub-divisional totals shown in column 7 of the Demand Register, and thereafter the entries shall be posted punctually every quarter from the Enhancement and Remission Registers as prescribed and explained in the form itself.

17. The totals of each Circle Demand Abstract shall be posted quarterly into the Abstract of Demand for the whole municipality, which may conveniently be placed at the beginning of the Demand Register belonging to circle No. 1.

ABSTRACT OF DEMAND FOR THE WHOLE MUNICIPALITY.

18. This abstract shall be in Form C. It shall be posted quarterly from the totals of the Abstracts of Demand of each circle.

FORM C.

Quarterly Abstract of the demand on account of Owners' House-rate during the currency of the Valuation made in the year ....

	COLLECTING CIRCLES.						TOTAL.	REMARKS.
	No. 1.	No. 2.						
Demand for the [First] quarter of 18								
Add new and improved holdings during the quarter ...								
Total ...								
Deduct remissions granted during the quarter ...								
Demand for the [Second] quarter of 18								
(and so on).								

PETITIONS.

19. Petitions against the assessment should, if possible, be presented in forms of a uniform pattern. The use of the form annexed to those rules is suggested for this purpose.

20. Petitions shall be registered in Form D by means of which the progress made in dealing with petitions shall be watched.

FORM D.

PETITION REGISTER.

Register of Petitions for exemption from or reduction of Owners' house-rate.

Serial No.	Name of petitioner.	HOLDING TO WHICH THE PETITION RELATES.			Date of receipt of petition.	Date when passed on by Vice-Chairman to revising authorities.	Date of orders passed on petition.	Remarks and note of whether entry has been made in the Remission Registers.
		Circle.	Sub-division.	No. on list published under section 112 or on Register of New and Improved Holdings.				
1	2	3	4	5	6	7	8	9

Remission Register.

21. All remissions shall be entered in the Remission Register, Form E, of the circle concerned.

Form E.

Circle No.

Register of Remissions of Owner's house-rate granted during the quarter ending

Date of entry in this register.	Serial number.	Date of order of remission.	Sub-division, *e.g.* village, street or road.	Number of holding on rating list.	Owner's name.	Rate as it stood before this revision.		Remissions by cancellation or reduction of outstanding rate bills [*all entries in these columns are to be posted into the Bill Register*].												Remissions by reduction of demand next to be made.		Difference between previous rate (columns 7 and 8) and revised rate (columns 25 and 26) being the amount by which the future demand will be reduced.		Initials of Vice-Chairman.	Remarks. Reference to proceedings, petitions and lists of irrecoverable rate bills, &c.
								Amount remitted for each quarter of the previous year.						Amount remitted for each quarter of the current year.						Future rate to be posted into the Demand Register.					
								1st quarter.		2nd quarter.		3rd quarter.		4th quarter.		1st quarter.		2nd quarter.		3rd quarter.		4th quarter							
						Annual value of holding.	Quarterly instalment.	Number of bill.	Amount.	Number of bill.	Amount.	Number of bill.	Amount.	Number of bill.	Amount.	Number of bill.	Amount.	Number of bill.	Amount.	Number of bill.	Amount.	Number of bill.	Amount.	Annual value of holding.	Quarterly instalment.	Annual value of holding.	Quarterly instalment.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

22. Remissions are of two kinds, viz.—

(*a*) Those in respect of bills made out, whether actually served or not.

(*b*) Those in respect of the demand next to be made.

Two separate sets of columns are therefore provided, viz., Columns 9 to 24 for bills drawn, and columns 25 and 26 for future rate. The remissions shown in columns 9 to 24 shall be posted into the Bill Registers in detail, and the daily total of these remissions shall be posted into the tax-darogah's Daily Registers, Form J, for the circles and quarters concerned.

The amounts in columns 25 and 26 shall be posted in detail into the Demand Register, Form A.

The quarterly total of column 28 shall be posted into the Circle Demand Abstract, Form B.

23. Whenever a remission is granted in respect of a bill made out, the counterfoil of the bill and also its red receipt shall be placed, together with the Remission Register, before the Vice-Chairman.

If the demand has been entirely remitted, both the counterfoil of the bill and the red receipt shall be stamped "Cancelled" in large type, and the fact of cancellation attested by the initials of the Vice-Chairman.

If the demand has been reduced, the necessary correction shall be made in the counterfoil of the bill and in the red receipt, and attested by the initials of the Vice-Chairman.

Enhancement Register.

24. All new assessments made after the publication of the list under section 112, and all enhancements of the original assessments, shall be posted in the Enhancement Register, Form F, under the initials of the Vice-Chairman or Secretary.

Form F.

Circle.

Enhancement Register of new and improved holdings, showing increase to the demand on account of house-rate for the Quarter ending

Serial No.	Date when brought on to this register.	Sub-division.	No. of holding, if any, in Demand Register.	Name of owner and description of holdings.	Former valuation, if any.		New or enhanced valuation.		Difference between previous and revised valuation being amount of increase to demand.		Remarks and reference to proceedings, &c.	Vice-Chairman's initials.
					Annual value of holding.	Quarterly instalment.	Annual value of holding.	Quarterly instalment.	Annual value of holding.	Quarterly instalment.		
1	2	3	4	5	6	7	8	9	10	11	12	13

25. The entries in columns 8 and 9 shall immediately be posted in detail into the Demand Registers in the space left for this purpose below the sub-division concerned (see rule 8), and the quarterly total of column 11 shall be posted into the Circle Demand Abstract, Form B, to work out the demand for the following quarter.

26. It must be remembered that, under section 93 of the Act, the new and enhanced assessments take effect only from the beginning of the following quarter.

BILLS AND BILL FORMS.

27. Bills for house-rate shall be in three parts in Form G, the receipt portion being printed in red ink.

FORM G.

No. MUNICIPALITY OF

COUNTERFOIL FORM No.

Rate on Holdings Bill.

Collecting Circle

Sub-division

Number of holding on Valuation Register

Name of owner

Bill for the quarter of 18 .

Rs. A. P.

Amount ...

Date of Bill

Date of service of Bill

Date of service of notice of demand

Date of service of warrant

Sircar.

[*N.B.*—If the rate is recovered from the occupier under the provisions of section 105, the name of the occupier must also be stated.]

No. MUNICIPALITY OF

Receipt for rate on holdings paid to be given to the rate-payer under Section 119, Act III (B.C.) of 1884.

(Name.)

.....

Owner of holding shown in the Municipal Registers as No.....in collecting Circle.....and in the.....

.....Sub-division.....

.....Dr.

To quarterly instalment of rate on holdings payable in advance on the first day of the quarter on account of the above-mentioned holding for the quarter ending.....

.....18 .

Rs. A. P.

Amount ...

Received payment.

Municipal Seal.

Sircar.

Vice-Chairman.

DATED AT *The*.....18 .

N.B.—This receipt will not be valid unless signed by the Tax-Collector or Cashier.

No. MUNICIPALITY OF

Bill due for rate on holdings under Section 120 of Act III (B.C.) of 1884.

(Name.)

.....

Owner of holding shown in the Municipal Registers as No .....in collecting Circle.....and in the .....

.....Sub-division.....

.....Dr.

To quarterly instalment of rate on holdings payable in advance on the first day of the quarter on account of the abovementioned holding for the quarter ending.....

.....18 .

Rs. A. P.

Amount ...

Date of service of this Bill

Vice-Chairman.

28. An estimate shall be made of the number of forms likely to be required for a year's consumption, and arrangements shall be made with the Superintendent of Government Printing at Calcutta to supply the bill forms printed in English, or in the vernacular, or both, the complete year's supply being consecutively numbered, and stitched in books of convenient size (say each containing 100 forms).

The full year's supply need not of course be obtained at once, but by means of two or more indents, so as to ensure the year's supply agreeing very closely with the actual requirements.

29. The surplus forms, which will be very few in number if proper care be taken in making the estimate and indents, shall be destroyed by the Vice-Chairman at the end of each year.

30. On receipt of the forms from the press, they shall be counted under the supervision of the Vice-Chairman or Secretary. On the fly leaf or cover of each book shall be noted the number of forms it contains attested by the initials of the person who counted them.

31. The Vice-Chairman shall keep the bill forms in his personal custody and under lock and key. He shall draw up written instructions prescribing in minute detail the procedure to be adopted in registering the receipt and issue of the forms, in supervising the issue of forms to the bill writers, and in proving that they deliver back every bill form which they have been entrusted to fill up, and in proving the issue of the completed bills to the sircars.

32. The Vice-Chairman shall be especially and primarily responsible for preventing the preparation of fraudulent bills, as well as for closely and constantly watching and enforcing the prompt realisation or obtaining the speedy remission of all bills which bear his signature.

33. The bill forms shall be filled up from the Demand Registers, and the Vice-Chairman shall issue written instructions regarding the comparison of the Bills with the Demand Register before they are brought to be signed.

34. The bills shall be signed or stamped with a *fac simile* signature by the Chairman, Vice-Chairman, Secretary, or the Commissioner for the ward to which the bills belong, and the signing officer shall satisfy himself that the comparison of the bills with the Demand Register has been carefully made.

35. If a *fac simile* stamp be used, it shall always be kept in the personal custody of the officer whose signature it represents, and shall never be used except in his presence and actually in his sight.

Bill Register.

36. The signed bills shall be entered in the Bill Registers, Form H. The form requires no explanation, but it should be noted that in the case of bills paid in full a tick mark may be entered instead of the amount in columns 6, 12, 18 and 24.

Form H.

Circle No.

Register of Bills for Owners' rate on holdings for the year.....

Sub-division.	No. of holding on the Demand Register.	Name of owner.	First quarter.						A set of columns Similar to Nos. 4 to 9 for 2nd, 3rd, and 4th quarters, respectively.	Remarks.
			No. of bill.	Amount.	How satisfied.					
					Paid.		Remitted.			
					Amount.	Date.	Amount.	Date.		
1	2	3	4	5	6	7	8	9	10 to 27	28

37. As stated in rule 8, the sub-divisions of each Bill Register will be identical with those of the corresponding Demand Register.

38. Each sub-division shall be totalled every quarter under the initials of the Vice-Chairman or Secretary, and shall be compared and agreed with the figure in the Circle Demand Abstract, Form B, which shall be signed by the Vice-Chairman in token of agreement.

Service of Bills.

39. The bills having been made over to the collecting sircars in accordance with the procedure prescribed by the Vice-Chairman under rule 31, each sircar shall commence the service of the bills on the first day of the quarter.

40. If the tax be paid upon presentation of the bill, the sircar shall sign the red receipt, shall hand the bill together with the receipt to the tax-payer, and shall note the date of payment in the counterfoil of the bill, and he shall also enter the transaction in his Daily Register of collections, Form I.

Form I.

Circle No.

Sircar's Daily Register of Collections on account of Owner's house-rate.

Date.	Sub-division.	Number of holding.	Owner.	Number of bill.	Amount received on account of the previous year.				Amount received on account of this year.				Total.	Warrant fees.	Remarks and note of any bill paid to the Cashier at Office.
					First quarter.	Second quarter.	Third quarter.	Fourth quarter.	First quarter.	Second quarter.	Third quarter.	Fourth quarter.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

41. He shall either take the register with him on his rounds and enter therein each payment as he collects it, or if, owing to the size of the register, or to there being more than one

kind of tax, this plan is found inconvenient, he shall take with him a note-book in the following form :—

Name.	No. of bill.	Whether for last or current year.	For what quarter.	House.			Latrine.			Water.		
1	2	3	4	5			6			7		
				Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.

This note book may conveniently be of foolscap size divided lengthways, the left hand page being assigned for columns 1 and 2, and the right hand page for columns 3 to 7.

42. If the tax be not paid upon presentation of the bill, the sircar shall separate the bill from the receipt and serve the bill in the manner prescribed in section 356 of the Act. He shall at the same time, whenever possible, inform the assessee on what date he will again demand payment.

43. The sircar shall return to the Municipal Office either every day, or, if so permitted by the Vice-Chairman, every alternate day, and shall deliver to the tax-darogah all the money he has collected, together with his daily register duly written up in Form I, and the bill books relating thereto.

44. The tax-darogah shall then check the sircar's account by comparing the amounts shown in the register with the bill book counterfoils from which the red receipts are missing.

He shall then total the register and see that it corresponds with the money delivered to him by the sircar. If all is in order, he shall initial the register in token of having received the money.

45. If the sircar takes his daily register with him on his rounds, he shall be provided with two copies, which he shall use alternately, and he shall leave one copy in the office to enable the tax-darogah to post his books.

46. The entries in the Sircars' Daily Registers shall then be posted into the Bill Registers, and the tax-darogah shall post the total amount received from each sircar into his cash-book as provided in Part I of the Account Rules.

47. The tax-darogah shall then post his Daily Registers of Collections, Remissions and Outstandings in Form J.

N. B.—There will be one of these registers in use for each quarter, the demand for which has not been wholly cleared.

FORM J.

Tax-darogah's Daily Register of Collections, Remissions, and Outstandings of house-rate in respect of the quarter ending

Memorandum of the quarter's demand in each circle.	Date.	Circle No. 1.				Similar sets of columns 3 to 6 for every other circle.
		Collections.	Remissions.	Total.	Outstanding.	
1	2	3	4	5	6	7
Brought forward from last month ...						
Circle No. 1 ... Rs.						
" &c. " 2 ... "						
Total municipal demand, Rs. ...						
Total of the month ...						

48. The columns headed "Collections" shall be posted from the tax-darogah's cash-book, and those headed "Remissions" from the columns of the quarter concerned in the several Remission Registers.

49. When the total for the month has been struck, an abstract shall be prepared in Form K, showing the condition of the taxation account in respect of the quarter to which the particular daily register relates, viz.—

FORM K.

Abstract of the Tax-darogah's Daily Register for the quarter ending

	Circle No. 1.	Circle No. 2.	&c.
Demand			
Collections up to end of last month			
Collections this month			
Total collections ...			
Remissions up to end of last month			
Ditto this month			
Total remissions ...			
Total collections plus remissions			
Outstanding for the quarter ending			

50. The abstracts for every quarter in respect of which there are outstandings having been prepared, their totals shall be posted into monthly progress statements, which shall be prepared separately for each circle, so as to show clearly how each sircar is working the circle entrusted to him. The circle progress statement shall be in Form L.

FORM L.

MONTHLY PROGRESS STATEMENT OF CIRCLE No. UNDER SIRCAR

	LAST YEAR.				CURRENT YEAR.				Total.
	1st quarter.	2nd quarter.	3rd quarter.	4th quarter.	1st quarter.	2nd quarter.	3rd quarter.	4th quarter.	
Demand for each quarter									
Collections up to the end of last month for each quarter.									
Collections during this month for each quarter.									
Total collections for each quarter ...									
Remissions up to the end of last month for each quarter.									
Remissions during this month for each quarter.									
Total remissions for each quarter ...									
Grand total of collections plus remissions for each quarter.									
Balance outstanding for each quarter									

51. The progress statements for each circle shall be verified by the Vice-Chairman or Secretary and the Accountant, and shall be laid before the Commissioners each month at their ordinary monthly meeting held under section 38 of the Act.

52. It will be unnecessary to compile the circle progress statements into a combined statement for the whole municipality every month, but it shall be done at least twice a year, and as often as the Commissioners may require it.

53. The progress statement of each circle shall be carefully scrutinised by the Commissioners at their monthly meeting. Whenever any progress statement shows outstandings extending over three complete quarters, the Commissioners shall cause a detailed list to be prepared of the bills outstanding for more than a complete half-year.

54. This list shall be prepared, circle by circle, from the Bill Registers by a clerk unconnected with the taxation department, if possible, and shall be verified by comparison with the undelivered receipts by the Secretary or other officer nominated to the duty. If the circle totals do not agree with those shown in the progress statements, a Committee shall be appointed to audit the taxation accounts and to reconcile the difference. If this difference be not reconciled within fifteen days, the Municipal Commissioners shall submit to the Magistrate a report stating the amount of the difference, the causes to which it is attributed, and the steps taken to reconcile it.

55. The Commissioners shall proceed to deal with the outstandings either by collecting or remitting the amounts. Every year, in the month of June, the Commissioners shall submit a taxation report through the Magistrate to the Commissioner of the Division in the form of a combined progress statement for the whole municipality, and if there are outstandings extending further back than the first quarter of the previous year, full explanation shall be given as to why these taxes have neither been collected nor remitted, and the Commissioner of the Division shall forward these explanations to Government with his remarks.

56. The outstandings mentioned in rule 55 will be dealt with as a separate arrear account and worked entirely from the lists. *i.e.*, in the month of June, in preparing this list of old outstandings from the Bill Registers, the letter A in blue pencil shall be entered in the Bill Registers against each bill transferred to the arrear list and the total amount transferred shall be noted at the foot of the circle progress statement concerned.

All subsequent realisations or remissions of the bills so transferred shall be entered in the list only, and not in the Bill Registers or Remission Registers, which provide for the current and last year's transactions only. The sircars shall set apart separate pages in their collection register or note-book for the entry of these arrear collections. The general registers will thus be wholly cleared, and shall not be used for the record of what have become practically dead accounts.

SECOND SERVICE OF BILLS, NOTICES OF DEMAND AND DISTRESS WARRANTS.

57. On the first day of the second month of the quarter, the sircar shall again take round the undelivered receipts, together with notices of demand, which shall in the interval have been attached to the receipts by the tax-darogah. If the demand is then not paid, the notices of demand shall be left with the assessees, and the undelivered receipts shall be returned to the tax-darogah for the preparation of distress warrants with a note of the date on which the notices of demand were served. When fifteen days shall have elapsed after the delivery of a notice of demand, the sircar shall proceed with a warrant of distress, and if the demand as well as the fee prescribed by law for the warrant expenses be not then satisfied, he shall make an attachment of the defaulter's property, preparing an inventory of all goods and chattels so attached, and proclaiming a notice of sale by beat of drum.

BILLS PAID AT OFFICE.

58. In the event of any unpaid bill, of which the counterfoil and red receipt are in the custody of the tax-darogah being brought to the Municipal Office and there satisfied, the

tax-darogah shall deal with the transaction precisely as the collecting sircar does in ordinary course, entering the amount in the Sircar's Daily Register, and noting the fact that the bill has been paid at office in the remark column as provided in the form.

COLLECTION OF TAXES AT THE MUNICIPAL OFFICE.

59. An alternative procedure is suggested, the distinctive feature of which consists in the refusal to permit the sircars to collect any money. Their duty will be strictly limited to serving the bills and notices of demand upon the assessees in the manner prescribed in the preceding rules. But each bill will contain a caution against the payment of any money to the server of the bill, and a direction to the rate-payer to proceed to the Municipal Office and pay the amount of the bill there.

60. At the end of each week the serving peons will bring back the bill-books and receipts to the Municipal Office with a certificate that every bill missing from the book has been properly served upon the assessee.

61. The tax-darogah, assisted by a sufficient number of clerks, should remain in the Municipal Office at a counter during certain fixed hours of each day, and upon presentation of a bill by a tax-payer he should receive the amount and hand to the tax-payer the corresponding red receipt.

62. The amount so received should be entered in a Daily Receipt Register, Form I, one such register being used for each kind of rate or tax. A separate register or set of registers should of course be supplied to each receiving clerk.

Form for Petition of Objection against assessment or valuation under Section 113 *of the Bengal Municipal Act, to be presented within one month from the date of publishing the Assessment or Valuation List.*

[The petitioner is required to fill up only seven columns, Nos. 1 to 7: the rest are to be filled up by the Officers noted herein.]

1		3	4		6	7	8	9	10	11	12	13
Date of petition.	Petitioner's name, his father's name.	No. or name of the mohalla in which each house exists.	No. of house on the Register over-assessed in each mohalla.	TAX.		Grounds of remission to be stated in brief by the applicant.	Office certificate as to the correctness of columns 1 to 5 (in brief).	Opinion of the Ward Commissioner or of the officer enquiring.	SUB-COMMITTEE'S ORDERS WITH REGARD TO EACH HOUSE.		Initials of the disposing officer.	Remarks of the disposing officer as to any arrears due from the petitioner, and the date from which the order is to take effect.
				Paid last year.	Assessed this year.				Amount remitted.	Amount finally assessed.		

No. 198Mne., dated Calcutta, the 4th August 1890.

THE following report of the 13th quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners of the Port of Calcutta, is published for general information.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

Dated Calcutta, the 31st July 1890.

From—MAJOR A. D. MCARTHUR, R.E., and W. CONNAN, ESQ.,
To—The Secretary to the Government of Bengal, Public Works Department.

ADVERTING to the orders of the Government of Bengal, communicated with your letter No. 1874M. of the 19th instant, we have the honour to report that the 13th quarterly inspection of the Dock Works was made on the 26th instant.

2. The usual tabular statement and the index plan showing the work done during the quarter, ending 30th June last, and the total amount executed from the commencement which have been prepared by the Superintending Engineer of the Dock Works, are already with Government. The present state of the various works under construction is reported in the following paragraphs:—

Sixty feet Lock.—This work is completed with the exception of the river-side revetments; about 13·7 per cent. of excavation and 2·6 per cent. of masonry work still remains to be done. The hanging of the riverside gates is almost completed.

Eighty feet Entrance.—The hanging of the gates is finished, and, with the exception of the riverside revetments, the work is almost completed. About 21·0 per cent. of excavation remains to be done.

Double entrance to Dock No. 1.—The work is almost completed, the gates being hung, and the completion of the erection of the swing bridge only remaining.

Tidal Basin.—The quay wall foundation has now been completed, and only a small quantity of the superstructure remains to be done; about 7·4 per cent. of masonry still remains.

Graving Dock.—All foundations are in; earthwork completed and only 4·3 per cent. of masonry remains to be done. The foundations of the engine-house and chimney shaft are also in.

Government Graving Dock.—Earthwork completed, foundations all in and two-thirds of the masonry done.

Dock No. 1.—The quay wall foundations and masonry all completed, with the exception of coping; 3,771,3[illegible]3 c.ft. of excavation is completed, and about 14·0 per cent. remains to be done. Considering the state of the work, it is expected that the earthwork will be completed during the current quarter.

Boat Canal.—During the quarter the excavation of this work was proceeded with, and about 1,978,618 c.ft. of earthwork executed, thus leaving only 25·1 per cent. of excavation to be done. The lift-lock is finished with the exception of gate erection. Main pumping station is well in hand. The bridges are practically complete with the exception of the approaches. The foundation of the Chetla Hât lock is in a forward state.

Subsidiary Works.—The chimney, shaft and engine-houses are complete, and the engine erected. The accumulator tower is bordering on completion and the erection of the accumulator almost complete. The jetty heads to the entrance are well in hand, and good progress has been made with the foundations of six cargo sheds.

Expenditure.—The total expenditure up to end of the quarter under review is reported to be Rs. 1,85,97,963, of which Rs. 1,59,95,278 represent outlay on works and Rs. 26,02,685 on account of land.

Sanitary.—The health of the workpeople was not so satisfactory as in the previous quarter. The average number of coolies employed was 7,579, among whom there were 19·0 deaths, thus showing a death-rate of 29·30 per annum.

General Remarks.—We are of opinion that fair progress has been made with the works, and that so far as we have been able to judge from a quarterly inspection the character of the work was satisfactory, and the quantity of the work done was all that could be desired, promising completion at an early date.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 9th August, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN. 1	Burdwan Aug. 9, '90	3·53	Weather—hot and rainy. Transplantation of paddy going on. Prices of common rice:—
	Culna ...	1·94	
	Ranigunge ...	2·05	
			Srs.
			Burdwan ... ... 15 }
			Culna ... ... 13 } per rupee.
			Ranigunge ... ... 15½ }
2	Bankoora „ 9, '90	0·47	Weather—warm and clear. Transplanting of *amun* rice nearly finished. Weeding of *aus* going on. Sugarcane and *til* prospering. Common rice selling at 19 seers per rupee at Sudder and 17 seers at Bishenpore.
3	Birbhum „ 9, '90	0·89	A break of dry weather in the southern part of the district, but plenty of rain in the north. Crops at present are fine. Prices of common rice range from 16 to 18 seers per rupee.
	Rampore Haut ...	3·59	
4	Midnapur „ 9, '90	0·74	Weather—fine generally, with occasional showers. Paddy is still being transplanted. Poor outturn of indigo in the Sudder subdivision. Prices of common rice:—
			Srs.
			Sudder ... ... 15½ }
			Contai ... . 16 } per rupee.
			Tumlook ... ... 14 }
			Ghatal ... ... 16 }
5	Hooghly „ 9, '90	3·16	Weather—seasonable. Prospects of crops promising. Prices of common rice:—
	Serampore ...	1·58	
	Jehanabad ...	3·41	
			Srs.
			Sudder ... ... 13 }
			Serampore ... ... 16 } per rupee.
			Jehanabad ... ... 14½ }
	Howrah „ 9, '90	2·46	Weather—showery. Transplanting of *amun* continues. *Aus*, jute, and sugarcane doing well. More rain wanted in parts of the Uluberia subdivision. Price of common rice 13 to 14 seers per rupee.
	Uluberia ...	0·83	
	Central Districts.		
PRESIDENCY DIVN. 6	24-Pergbs. Aug. 12, '90	3·10	Weather—seasonable. Prospects of *aus* and jute continue fair. Transplantation of *amun* going on briskly, but more rain wanted in places. Prices stationary.
7	Nuddea „ 9, '90	3·80	Weather—seasonable. Prospects of standing crops good. *Aus* paddy on chur lands damaged by the rise of the rivers. Indigo crop unsatisfactory.
	Kushtea ...	1·44	
	Meherpore ...	2·52	
	Chuadanga ...	1·11	
	Ranaghat ...	1·60	
8	Khoolna „ 9, '90	2·00	Weather—seasonable. Prospects of crops continue favourable, but transplantation has been somewhat retarded on the low lands in Bagirhat and Khulna by excessive moisture.
	Bagirhat ...	1·85	
	Satkhira ...	1·84	
9	Jessore „ 9, '90	1·48	Weather—hot and cloudy with occasional showers. Harvesting of *aus* going on. Prospects of *amun* good. Rivers rising. Some damage done to *aus* crop in thana Sailkupa and also in part of thana Jhenidah by the early rise of the river.
	Jhenidah ...	1·20	
	Magura ...	2·09	
	Narail ...	1·59	
	Bongong ...	1·02	
10	Moorshedabad „ 9, '90	1·52	Weather—fine with passing clouds. Bhagiruthee unprecedentedly high, gauge reading being this noon (9th August) 30′ 6½″. Much damage has been done to the *bhadoi* crop in the Lalbag and Jungipore subdivisions by the floods. *Amun* progressing on well.
RAJSHAHYE DIVN. 11	Dinagepur „ 9, '90	0·49	Weather—seasonable Transplantation of *haimanti* rice continues. Reaping of *bhadoi* rice and jute has just been taken in hand. Prospects very favourable. Price of rice stationary.
	Thakurgaon ...	6·0	
12	Rajshahye „ 9, '90	2·05	Weather—seasonable. Plenty of rain. Prospects of crops excellent. The rain has done no harm. Jute is being cut and steeped. The crop will be a good, if not a bumper one; but prices are low. *Aus* is being reaped.
	Nattore ...	3·15	
	Nowgong ...	1·07	
13	Rungpur „ 9, '90	1·20	A break in the rains. Bright weather, with light easterly winds. All crops promise well. Jute has been cultivated this year to an extent hitherto unknown.
	Kurigram ...	2·55	
	Gaibanda ...	4·23	
	Nilphamari ...	2·94	
14	Bogra „ 9, '90	2·78	Weather—very damp and gloomy, with frequent showers up to the 8th instant inclusive. On the 9th sunshine has begun, which was much wanted. Transplantation of *amun* is going on apace. *Aus* is still being harvested, with good outturn. Jute is still being cut and steeped, and is an excellent crop. Common rice is selling at 19 seers a rupee.
	Sherpur ...	1·04	
	Nowkhilla ...	2·04	
15	Pubna „ 9, '90	0·96	Weather—hot in the day, but cool at night. Prospects of *amun* and *aus* paddy and jute are favourable. *Aus* and jute on low lands partially damaged. Prices of food-grains stationary.
16	Darjeeling „ 9, '90	7·10	Weather—rainy with occasional breaks. The rain has abated, and there has been some sunny weather. Jute crop in the Terai estimated at 10 annas.
17	Julpigoree „ 9, '90	1·19	Weather—close and cloudy. Transplantation of *amun* going on rapidly. Reaping of *aus* progressing. Jute growing well. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca Aug. 9, '90	4·62	Weather—mostly cloudy with gleams of sunshine at intervals. Jute and *aus* paddy being harvested. *Aus* has suffered to some extent owing to flood. *Amun* paddy thriving. Price of common rice 13 to 15 seers per rupee.
19	Furreedpur „ 9, '90	1·00	Weather—seasonable. River has risen higher than the last year's highest flood level, and has submerged the growing crops in the thanas of Kotwali, Ainpore, and Bhanga. River is now going down slowly to the great relief of the people. *Aus* had been harvested for the most part before the waters rose, and the damage done to it will not probably be more than four annas. Jute crop has been good, but its price is low, about Rs. 2-4 per maund. *Amun* has not been so damaged as it was anticipated at first. The crops in Madaripur are fair, and such is also nearly the case in Goalundo. Want of fodder is severely felt. Price of rice stationary.
20	Backergunge „ 9, '90	2·17	Weather—seasonable. State of standing crops generally good, but some damage has been done to *amun* seedlings by floods. Common rice selling at about 13¼ seers per rupee.
21	Mymensingh „ 9, '90	2·14	Usual monsoon weather with slight rainfall. In the Tangail subdivision the crops are being damaged by high flood. In other parts of the district prospects continue favourable on the whole. Common rice sells at 13 seers 9 chittacks per rupee.
Chittagong Divn. 22	Chittagong „ 9, '90	5·36	Weather—seasonable. Prospect of *aus* fair. Lands are still being prepared for *amun*. Rice selling at 16 seers per rupee.
23	Noakholly „ 9, '90	3·12	Weather—seasonable. *Aus* crop is being reaped and harvested. Transplantation of *amun* going on. Price of *amun* rice 13 seers and of *aus* rice 16 seers per rupee at Feny subdivision.
24	Tipperah „ 9, '90	2·54	Weather—seasonable. *Aus* paddy is being cut. Prospects of *amun* paddy good. Jute cutting and steeping going on. The flood is high at Brahmanberiah. No injury to paddy crop has been yet caused.
25	Chittagong Hill Tracts. „ 8, '90	7·04	Weather—cloudy and rainy throughout the week, except on the 2nd. Early *jum* paddy ripening. Cotton progressing. Transplanting on low lands commenced. Common rice being sold at 12 seers 5 chittacks per rupee.
	Hill Tipperah ...	.....	Report not received.
BEHAR.			
Patna Divn. 26	Patna „ 9, '90	3·79	Weather—hot. Transplantation of paddy continues. Prospects of *bhadoi* crops not favourable owing to excessive rain. Much injury reported to have been done to them in the Barh subdivision. Prices of food-grains stationary.
	Barh ...	2·16	
	Behar ...	3·47	
27	Gya „ 9, '90	0·89	Weather—hot and cloudy. Transplantation of paddy going on. *Bhadoi* injured by excessive rain. Sugarcane doing well. Prices of food-grains almost stationary.
28	Shahabad „ 9, '90	5·92	Weather—cool and stuffy alternately; some sunshine. *Bhadoi* is almost all gone in the Sudder and Buxar subdivisions, and partially damaged in the Sasseram and Bhabuah subdivisions. Prospects of paddy good. Prices stationary.
	Buxar ...	4·32	
	Sasseram ...	1·41	
	Bhabuah ...	1·34	
29	Durbhunga „ 9, '90	4·05	Bright sunshine in the latter part of the week. Prospects of the *bhadoi* and *aghani* crops continue favourable except where damage has been done by floods. A break in the rains for a few days would do good to the crops. Indigo manufacture still going on. Prices remain stationary.
	Madhubani ...	4·11	
30	Muzufferpur „ 9, '90	5·64	A good deal of rain has fallen during the week, but there have been two clear, dry days, which have effected some improvement in the prospects of the crops. The Bur Gundak which has overflowed its banks, and submerged a considerable area of crops, is now falling. The damage done by floods in all parts of the district is less serious than in the past year.
	Hajipur ..	3·13	
31	Sarun „ 9, '90	2·88	Weather—finer with some sun. *Bhadoi* crops almost all gone for want of sun and from excessive rain. Heavy floods have seriously damaged the rice and indigo crops. Extent of damage cannot at present be stated.
32	Chumparun „ 9, '90	2·22	Weather—cloudy off and on; hot with east wind. Sunshine after heavy and continuous rainfall has been beneficial to the *bhadoi* crops, some of which have been damaged to some extent. Transplantation of paddy nearly completed. Indigo manufacture of first cutting finished.
	Bettiah ...	3·58	
Bhagulpore Divn. 33	Monghyr „ 9, '90	0·75	Easterly winds, less rain and more sun. Floods have damaged the *bhadoi* crops, especially along the Ganges. Indian-corn promises well.
	Boguserai ...	2·00	
34	Bhagulpur „ 9, '90	1·21	Weather—clear. Slight rain. Previous heavy rain and rising of the river have done some damage to *marua* and *makai*. Prospects of paddy good, and there has been sunshine for the last 3 or 4 days.
	Banka ..	3·08	
	Mudhepura ...	2·52	
	Soopool ...	2·11	
35	Purneah „ 9, '90	1·12	Weather—sunny with breezes. *Bhadoi* harvest commencing with favourable prospects. Jute harvest also commencing, but some damage done by excessive rain. Transplanting of winter rice continues. Some injury done by floods in the north-east and centre of the district.
	Kishengunge ...	7·24	
	Arrareah ...	4·92	
36	Maldah „ 9, '90	2·30	Weather—hot and cloudy with occasional showers. *Bhadoi* is being harvested. A great deal has been damaged by inundation. Transplantation of winter rice going on. This crop also has suffered to some extent from inundation. Jute is being cut. Common rice selling at from 11 to 17 seers per rupee.
	Shibgunge ...	2·33	
	Gajole ...	3·43	
37	Sonthal Perghs. „ 9, '90	6·56	Ordinary monsoon weather. Paddy transplantation almost finished; prospects excellent. *Makai* somewhat damaged by excessive rain, and a good deal by early rise of the river in Rajmehal.
	Deoghur ...	2·30	
	Godda ...	2·73	
	Jamtara ...	1·12	
	Pakour ...	5·25	
	Rajmehal ...	4·75	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Aug. 9, '90	1·89	Rainfall during the week quite insufficient. Transplanting of *sarad* paddy in many places interfered with for want of sufficient rainfall. In Binjharpur Chakla of the Jajpur subdivision, *sarad* paddy has been attacked by insects.
	39	Pooree ,, 7, '90	1·29	Weather—seasonable. Puddling, weeding, and transplanting of *sarad* rice crop going on. *Beali* or early rice in ear. Miscellaneous crops doing well. Prices of common rice vary from 18 seers 6 chittacks to 21 seers per rupee in the Sudder subdivision.
		Khoordá ...	0·79	
		Banpur ...	3·34	
	40	Balasore ,, 9, '90	2·65	Weather—more seasonable than in previous week. Crops suffered from want of rain in the latter part of July. Prospects somewhat better now. Number of coolies on relief-works 38.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Aug. 9, '90	2·62	Weather—seasonable; fair at intervals. Moderate rainfall. Transplantation of paddy progressing vigorously. All crops doing well except Indian-corn, which has been damaged by excessive rain. Prices about stationary.
	42	Lohardugga ,, 9, '90	2·80	Weather—seasonable. Transplantation of winter rice is being carried on actively everywhere. Prospect of *bhadoi* crop continues good. No material change in prices.
		Palamow (up to 4th Aug.)	2·55	
	43	Singbhoom Aug. 9, '90	0·78	Rain holding off too long. Heavy rain urgently needed. Rice crop suffering for want of sufficient rain. *Bhadoi* crops are, however, in very satisfactory condition. Rice selling at from 16 to 24 seers per rupee except at Manaharpur in Sarandha, where it has risen to 12 seers per rupee.
	44	Manbhoom ,, 9, '90	0·69	Weather—seasonable. Slight rain fell during the week, but it is not unfavourable to the crops. Transplantation about three-fourths finished. Prospects of crops good. Ordinary rice selling at from 15 to 20 seers per rupee.
		Govindpore ...	0·70	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 12th August, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

Names of Marts	Stock in hand as compiled on—												
	1st week of August 1889.	1st week of Sept. 1889.	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.	1st week of August 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Baliaghatta	7,32,700	6,62,000	5,06,000	4,54,000	2,96,500	3,00,000	5,48,000	9,31,100	15,22,500	10,94,000	9,85,500	7,54,000	6,42,000
Ooltadanga	78,700	74,400	71,900	67,400	55,400	63,400	83,900	1,02,500	1,12,500	86,600	84,700	74,900	67,800
Chitpore, Golabaree, Coomertooly, Hatkhola, and Culpy Ghát.	6,97,700	5,76,300	6,74,100	6,33,300	5,86,000	6,00,400	5,98,900	5,83,800	5,91,600	5,37,800	4,79,200	4,96,100	5,10,500
Pathuriaghatta, Posta, and Jorabagan.	3,000	4,000	5,000	8,000	3,000	4,000	5,000	4,000	3,000	4,000	3,500	4,000	3,000
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,10,700	72,500	64,5[illegible]	65,200	68,100	82,750	98,100	1,21,500	1,26,550	1,32,900	1,19,450	1,04,700	96,000
21 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,52,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Bhuddreesur, and Chandernagore.	18,117	14,265	14,382	13,410	14,080	28,425	19,606	33,469	31,225	19,369	22,762	45,879	55,887
Total ...	21,30,917	18,93,465	18,25,982	17,31,310	15,13,080	15,68,975	16,43,506	22,66,369	28,77,375	23,64,669	21,85,112	19,69,579	18,65,187
On Railway premises on both sides of the river.	4,179 (on 3rd Aug. 1889.)	9,606 (on 3rd Sept. 1889.)	8,208 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd Dec. 1889.)	28,007 (on 3rd Jan. 1890.)	26,935 (on 3rd Feb. 1890.)	47,988 (on 3rd Mar. 1890.)	24,996 (on 3rd Apl. 1890.)	24,633 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,533 (on 3rd July 1890.)	2,371 (on 3rd August 1890.)
On boats unloaded ... By Port Commissioners' returns.	1,32,232 (1st to 3rd Aug. 1889.)	25,334 (1st to 3rd Sept. 1889.)	17,852 (5th to 7th Oct. 1889.)	21,324 (1st to 3rd Nov. 1889.)	20,659 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb. 1890.)	56,509 (1st to 3rd Mar. 1890.)	57,745 (1st to 3rd Apl. 1890.)	30,197 (1st to 3rd May 1890.)	24,756 (1st to 3rd June 1890.)	23,351 (1st to 3rd July 1890.)	54,778 (1st to 3rd August 1890.)
By Canal returns	29,345 (1st to 3rd Aug. 1889.)	19,881 (1st to 3rd Sept. 1889.)	45,922 (5th to 7th Oct. 1889.)	14,719 (1st to 3rd Nov. 1889.)	8,935 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	58,619 (1st to 3rd Apl. 1890.)	23,975 (1st to 3rd May 1890.)	23,957 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)	18,546 (1st to 3rd August 1890.)
Grand total of Stocks ...	22,96,673	19,48,282	18,97,914	17,81,363	15,49,243	17,90,438	21,81,281	25,05,503	29,98,735	24,43,474	22,45,752	20,30,851	19,40,882
Probable stock available for exportation by sea.	12½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	5 lakhs	7⅞ lakhs	11½ lakhs	14½ lakhs	13½ lakhs	11 lakhs	12 lakhs	9½ lakhs	9 lakhs

Statistical Department,
The 11th August, 1890

P. Nolan,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																		
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	14 8	14 0	13 4	...	...	...	12 0	12 0	11 4	14 10	14 13	13 11	...	...	...
2	Bankoora	15 0	14 0	13 8	20 0	20 0	17 8	15 0	15 0	14 8	18 0	18 0	17 4		...	...
3	Beerbhoom	16 8	16 8	15 0	...	...	...	13 8	13 8	12 0	16 8	16 8	13 8	...	...	...
4	Midnapore	12 0	13 0	11 7	...	...	...	13 0	12 12	12 0	16 4	16 4	16 0	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	11 0	...	...	...
	Howrah	...	...	...	...	...	...	11 4	11 4	10 0	13 4	13 4	13 4	...	...	...
	Central Districts.															
	Calcutta	13 6	13 9	12 12	17 8	17 7	16 8	9 10	8 14	8 11	13 9	13 1	12 12	19 3	18 13	...
6	24-Pergunnahs	15 0	15 0	13 0	18 0	18 0	18 0	8 0	8 0	7 0	13 12	13 12	13 4	...	...	...
7	Nuddea	15 10	15 10	14 15	20 0	20 0	17 12	11 5	11 3½	11 0½	12 12	12 13	12 9	...	..	...
8	Khoolna	...	...	...	...	...	...	12 4	13 0	10 10	14 0	14 4	12 5	...	...	...
9	Jessore	13 4	13 4	13 0	...	...	...	11 0	12 0	11 0	15 0	16 0	13 0	...	...	...
10	Moorshedabad	16 0	16 0	15 0	...	...	...	11 0	11 0	10 10	15 0	15 0	14 8	...	...	...
11	Dinagepore	15 0	15 0	13 8	15 9	17 0	25 0	13 4	13 4	12 0	15 8	15 9	14 8	...	...	...
12	Rajshahye	16 8	16 8	15 12	24 0	21 0	26 4	12 12	12 12	10 8	14 4	13 11	12 0	...	...	...
13	Rungpore	13 5	13 5	14 8	...	...	...	9 6	9 6	10 5	13 5	13 5	14 8	...	...	...
14	Bogra	15 15	16 14	13 8	...	...	...	12 0	12 0	9 12	15 15	17 4	14 4	...	...	...
15	Pubna	18 12	18 0	15 12	...	..	...	7 8	7 0	7 8	15 6	15 0	13 8	...	...	...
16	Darjeeling	8 0	10 0	10 0	9 8	9 0	6 0	5 0	5 0	5 0	9 0	9 0	11 0	...	...	...
17	Julpigoree	14 0	13 0	12 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	14 0	13 0	...	...	...
	Eastern Districts.															
18	Dacca	13 0	13 0	13 0	14 0	16 0	26 0	12 0	13 0	10 0	14 0	14 0	14 0	...	...	...
19	Furreedpore	15 0	15 0	16 0	20 0	20 0	16 0	10 0	10 0	9 0	15 0	15 0	13 0	...	...	...
20	Backergunge	...	...	...	...	...	...	11 14	12 5	11 0	16 0	14 8	12 0	...	...	...
21	Mymensingh	11 4	11 4	10 0	...	...	...	10 4	10 0	12 0	13 6	13 8	13 8	...	...	...

A In subdivisions retail prices of salt per rupee are:—Culna 8 seers, Cutwa 10 seers 6 chittacks, and Ranegunge 10 seers 4 chittacks.
B At Ramgore Haut retail price of salt 9 seers per rupee.
C In subdivisions retail prices of salt per rupee are:—Contai 9½ seers, Tumlook 8 seers, and Ghatal 11 seers.
D In subdivisions retail prices of salt per rupee are:—Serampore 11 seers and Jehanabad 10 seers 10 chittacks.
E In subdivisions retail prices of salt per rupee are:—Baraset 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are:—Kooshtea 10 seers, Meherpore 10 seers, Chooadanga 10 seers, and Ranaghat 9 seers 2 chittacks.
G At Begirhat retail price of salt 8 seers per rupee.
H In subdivisions retail prices of salt per rupee are:—Jhenida 9 seers, Magura 9¾ seers, Narail 9¾ seers, and Bongong 10 seers.
I In subdivisions retail prices of salt per rupee are:—Lalbagh 9¼ seers. Jungipore 10 seers. and Kandi 10 seers 10 chittacks.

SEERS OF 80 TOLAHS.

the 31st July, 1890.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi (*Eleusine Coracana.*)			Kangni or Kakun, Italian millet. (*Setaria italica.*)			Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer arietinum.*)			Common mason, Carpenter, or Blacksmith.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. A.	Rs. A.	Rs. A.	Rs. A.	
																BENGAL.
																Western Districts.
...	...	...	...	...	...	...	...	...	20 0	20 0	16 0	3 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Burdwan.
...	...	...	...	...	...	...	...	...	17 0	17 0	14 0	3 0 to 7 0	9 0 to 16 0	7 8 to 16 0	9 0 to 16 0	Bankoora.
...	...	...	...	...	..	...	...	...	18 12	18 12	16 0	3 0	12 0	7 8 to 10 0	13 8	Beerbhoom.
...	...	..	...	...	...	...	...	...	15 8	15 8	14 8		7 8 to 10 0	7 4 to 10 0	7 8 to 10 0	Midnapore.
...	...	...	...	.	...	...	...	...	16 0	16 0	16 0	0 to 0	8 0 to 40 0	8 0 to 30 0	10 0 to 30 0	Hooghly.
...	...	...	...	...	...	...	...	...	18 12	18 12	17 8	0	12 0 to 25 0	12 0 to 25 0	12 0 to 25 0	Howrah.
																Central Districts.
13 4	13 0	11 6	...	...	...	8 6	8 2	17 12	17 9	17 3	14 14	3 0	15 0	15 0	15 0	Calcutta.
...	...	...	...	...	...	7 0	7 0	13 4	20 8	20 0	17 8	6 0 to 7 0	15 0 to 20 0	15 0 to 25 0	15 0 to 25 0	24-Pergunnahs.
...	...	...	...	.	...	...	...	...	21 5¼	20 10	16 14	3 0	7 8 to 15 0	7 8 to 15 0	7 8 to 15 0	Nuddea.
...	...	...	...	...	..	...	...	...	15 0	15 0	13 0	7 0 to 8 0	12 0 to 30 0	12 0 to 25 0	12 0 to 30 0	Khoolna.
...	...	...	...	...		...	...	...	16 0	16 0	16 0	4 0 to 6 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Jessore.
...	...	...	...	...	...	...	...	...	21 0	21 0	18 12	5 0	7 8 to 10 0	5 0 to 20 0	7 8 to 10 0	Moorshedabad.
...	...	...	...	...	...	...	...	...	19 3	18 0	14 8	6 0 to 8 0	10 0 to 15 0	10 0 to 15 0	10 0 to 15 0	Dinagepore.
...	...	...	...	...	...	..	...	...	22 8	22 8	19 12	4 0 to 6 0	7 0 to 16 0	8 0 to 16 0	8 0 to 16 0	Rajshahye.
...	...	...	...	...	...	...	...	...	12 4	12 4	13 0	3 0	8 0 to 20 0	10 0 to 15 0	8 0 to 20 0	Rungpore.
									16 14	16 14	15 12	5 0 to 7 0	10 0 to 20 0	10 0 to 20 0	10 0 to 20 0	Bogra.
..	...	...	...	...	...	...	...	...	19 0	18 12	17 4	6 0 to 8 0	7 0 to 20 0	7 0 to 20 0	7 0 to 20 0	Pubna.
...	...	...	10 0	13 0	12 0	...	...	...	10 8	11 0	11 0	7 0 to 9 0	11 0 to 20 0	12 0 to 25 0	12 0 to 22 0	Darjeeling.
...	...	...	...	...		...	...	...	17 0	16 0	13 0	3 0	15 0 to 20 0	15 0 to 20 0	15 0 to 20 0	Julpigoree.
																Eastern Districts.
...	...	...	...	...	...	...	...	...	13 0	13 0	14 0	7 0 to 12 0	8 0 to 20 0	10 0 to 20 0	8 0 to 20 0	Dacca.
...	...	...	...	...	...	...	...	...	16 0	16 0	16 0	7 0	15 0	15 0	15 0	Furreedpore.
...	...	...	...	...	...	...	...	...	14 8	14 8	14 0	6 0	12 0 to 15 0	10 0 to 15 0	12 0 to 15 0	Backergunge.
...	...	...	...	...	...	...	...	...	14 0	14 0	13 4	6 0 to 7 0	12 0 to 30 0	12 0 to 30 0	12 0 to 30 0	Mymensingh.

gong 9 seers 9 chittacks.

L In subdivisions retail prices of salt per rupee are:—Nilphamari 9 seers, Gaibanda 8 seers, and Kurigram 8 seers.
M At Serajgunge retail price of salt 10 seers per rupee.
N At Siliguri wholesale price of salt Rs. 4-4 per maund.
O In Alipore subdivision (at Fallacatta) retail price of salt 8 seers per rupee.
P In subdivisions retail prices of salt per rupee are:—Manickgunge 8 seers, Moonshegunge 8 seers 14 chittacks, and Narainguge 10 seers.
Q In subdivisions retail prices of salt per rupee are:—Patuakhali 9 seers, Perozepore 9 seers.
R In subdivisions retail prices of salt per rupee are:—Kishoregunge 8 seers, Tangail 10 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	10 0	...	...	...	12 0	12 0	10 0	15 0	15 0	12 8	...	...	...
23	Noakholly* ...	...	...	...	...	...	...		14 0	12 0		15 0	14 0	...	...	...
24	Tipperah ...	14 1/17	13 14½	12 0	...	...	...	8 14	10 0	13 0	13 14½	13 14½	14 0	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	11 6¾	10 10½	9 4	12 5	11 6¾	10 0	...	...	...
	Hill Tipperah	6 0	6 0	6 0	...	...	...	8 0	8 0	8 0	15 0	15 0	12 0	...	...	...
	BEHAR.															
26	Patna ...	17 12 / 16 12	Red. 17 4 / White. 16 4	... / 16 0	24 8	23 8	21 0	10 8	10 8	10 0	16 12	16 7	13 8	19 0	22 0	17 0
27	Gya ...	15 8	16 0	15 8	20 0	22 0	18 0	10 0	11 8	9 0	15 8	15 8	12 8	...	...	...
28	Shahabad ...	15 8	16 0	14 0	21 0	20 0	17 0	8 0	9 0	9 0	15 0	14 0	12 8	...	...	...
29	Durbhunga ...	15 6	15 6	15 5	19 12	20 14	18 8	12 0	13 0	9 2	15 6	15 6	13 6	20 14	...	...
30	Mozufferpore ...	17 0	17 0	14 0	21 0	22 0	16 0	11 0	9 0	9 0	15 0	14 0	11 0	...	...	...
31	Sarun ...	16 4	16 4	14 8	21 8	21 4	17 8	8 8	8 8	8 4	14 0	14 3	11 2	...	...	...
32	Champarun ...	17 0	17 0	13 8	25 0	23 0	15 8	8 0	8 0	8 0	14 12	15 0	10 0	...	...	...
33	Monghyr ...	18 6	18 6	16 12	23 1	22 0	17 14	13 2	12 9	10 8	15 12	15 12	11 14	...	...	...
34	Bhagulpore ...	17 11	17 11	15 12	21 7	21 7	17 10	Old. 10 11 / Now. 13 0	Old. 10 1 / Now. 12 10	10 11	Old. 13 14 / Now. 17 0	Old. 13 14 / Now. 16 6	12 10 / ...	...	...	...
35	Purneah ...	18 0	18 0	14 0	...	...	...	15 0	15 0	11 0	18 0	17 0	13 0	...	...	...
36	Maldah ...	19 0	18 8	15 8	...	...	...	12 0	12 0	10 0	15 0	14 0	12 8	...	...	...
37	Sonthal Perghs.	14 0	14 0	12 8	...	...	...	13 0	13 0	12 8	16 0	16 0	14 8	...	...	...
	ORISSA.															
38	Cuttack ...	15 12	14 7	11 13	...	...	...	10 8	10 8	10 8	17 1†	15 12	14 7	...	...	...
39	Pooree ...	10 8	10 8	9 5	...	...	...	11 13	13 2	10 8	17 1‡	17 1	14 7	...	...	...
40	Balasore ...	15 0	15 0	16 0	13 0	13 0	13 0	12 0	11 0	13 0	19 0	16 0	17 0	...	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	15 0 / 14 0	14 0 / 16 0	12 0	18 0	18 0	...	9 0	9 0	8 0	16 0	16 0	14 0	...	...	...
42	Lohardugga ..	13 12 / 8 0 / 10 8	Red. 14 0 / White. 8 0	10 12 / 8 0	15 0	...	8 8	14 0	14 0	12 0	Ordinary. 16 0 / Coarse. 19 0	16 0 / 19 0	14 0 / ...	...	...	...
43	Singbhoom ...	10 0	12 0	10 0	16 0	20 0	20 0	16 0	16 0	16 0	19 0 / 20 0	19 0 / 18 0	20 0	...	...	...
44	Manbhoom ...	13 0	14 0	12 0	...	...	...	12 0	12 0	11 8	17 0	18 0	14 0	...	...	...

* Present return not received.
† Price of common rice at Jajpore and Kendrapara 21 seers per rupee.
‡ Ditto in the Khoorda subdivision 20½ seers per rupee.
S At Cox's Bazar retail price of salt 8 seers per rupee.
T In subdivisions retail prices of salt per rupee are :—Aurungabad 9½ seers and Nowadah 8½ seers.
U In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Sasseram 10½ seers, and Bhabuah 9½ seers.
V In subdivisions retail prices of salt per rupee are :—Madhubani 10 seers and Somastipore 11 seers.

CALCUTTA,
The 12th August, 1890.

..., 1890—(concluded).

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi. (*Eleusine Coracana.*)			Kangni or Kakun, Italian millet. (*Setaria italica.*)			Gram, Chana, Chhola, Kadalay or Sunaga. (*Cicer arietinum.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...	...	...	...	12 0	12 0	11 10
...	...	...	...	...	...	...	...	...	...	12 0	12 0
...	...	...	...	...	..	...	...	...	9 28	10 10⅔	16 0
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	12 0	12 0	10 0
...	...	...	25 0	25 0	...	18 0	19 0	14 0	21 8	21 0	20 0
...	...	...	...	...	...	15 0	15 8	11 0	19 0	20 0	17 8
...	...	...	...	...	...	...	...	...	22 0	23 0	18 0
...	...	...	26 7	24 0	17 2	...	...	...	22 0	22 0	18 4
...	...	...	...	...	...	...	...	...	20 0	20 0	16 0
...	...	...	22 0	22 0	...	16 0	16 0	10 0	21 4	21 4	17 9
...	...	...	...	...	17 0	...	...	...	22 8	22 0	15 0
...	...	...	...	...	...	21 0	14 11	...	24 2	24 14	18 14
...	...	...	...	...	...	...	...	...	23 5	22 11	17 10
...	...	...	...	...	...	...	...	...	23 0	23 0	...
...	...	...	...	...	...	...	...	...	24 0	22 8	18 0
...	...	...	...	...	...	...	...	...	18 0	18 0	16 0
...	...	...	...	...	...	...	...	...	14 7	14 7	18 6
...	...	...	...	...	...	...	...	...	14 6	14 6	15 12
...	...	...	...	...	...	...	...	...	14 0	14 0	14 0
...	...	...	28 0	28 0	21 0	...	...	...	16 8	16 8	14 8
...	...	...	40 0	40 0	30 0	...	...	...	13 8	14 4	11 8
...	...	...	...	...	...	...	...	...	16 0	14 0	10 0
...	...	...	...	...	...	...	...	...	17 0	17 4	14 0

PER MONTH.

Horse-se.		Common Mason, Carpenter, or Blacksmith.			DISTRICTS.
Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.		
					Eastern Districts—concluded.
Rs. A.	Rs. A.	Rs. A.	Rs. A.		
8 0	12 0	9 8 to 12 0	9 4 to 12 0		Chittagong.
5 0 to 6 0	5 0 to 10 0	8 0 to 16 0	8 0 to 14 0		Noakholly.
7 0 to 8 0	8 0 to 15 0	8 0 to 15 0	8 0 to 15 0		Tipperah.
able.	20 0 to 30 0	20 0 to 30 0	20 0 to 30 0		Chittagong Hill Tracts.
6 0	15 0	15 0	15 0		Hill Tipperah.
					BEHAR.
4 8 to 5 0	7 0 to 8 0	7 0 to 8 0	7 0 to 8 0		Patna.
3 0 to 5 0	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0		Gya.
4 0 to 6 0	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8		Shahabad.
3 0 to 5 0	3 12 to 9 6	3 12 to 9 0	3 12 to 9 8		Durbhunga.
4 0 to 5 0	5 10 to 11 4	7 8 to 9 6	5 0 to 8 0		Mozufferpore.
4 0 to 7 0	6 9 to 10 0	6 9 to 10 0	6 9 to 10 0		Sarun.
4 0 to 6 0	5 10 to 9 6	5 10 to 9 6	5 10 to 9 6		Chumparun.
4 0 to 5 0	5 10 to 15 0	6 0 to 8 0	5 0 to 12 0		Monghyr.
3 8 to 5 0	7 8 to 9 6	7 8 to 11 4	7 8 to 11 4		Bhagulpore.
4 0 to 5 0	7 0 to 16 0	7 0 to 16 0	7 0 to 16 0		Purneah.
5 0 to 6 0	8 0 to 12 0	8 0 to 12 0	10 0 to 15 0		Maldah.
5 0	7 8 to 9 6	7 8 to 9 6	7 8 to 9 6		Sonthal Pergns.
					ORISSA.
4 8	6 0 to 7 8	6 0 to 7 8	6 0 to 7 8		Cuttack.
5 0	7 8 to 9 6	8 0 to 10 0	8 0 to 10 0		Pooree.
4 0 to 5 0	7 0 to 10 0	7 0 to 10 0	7 0 to 10 0		Balasore.
					CHOTA NAGPORE *South-West Frontier Agency.*
5 0	8 0	7 8	8 0		Hazaribagh.
3 8 to 6 0	3 12 to 9 6	4 11 to 14 1	4 11 to 14 1		Lohardugga.
4 0	12 0	12 0	12 0		Singbhoom.
5 0	9 6 to 8 12	13 2 to 15 0	13 2 to 5 0		Manbhoom.

Sitamarhi 10 seers.

Jamui 9 seers.

Arrareah (at Raneegunge) 10 seers.

ZS At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 8	2 11 2	2 14 4	2 0 7	2 1 1	2 3 0	3 14 4	4 3 10	4 5 10	2 11 4	2 13 1	2 14 4
2	Serajgunge ...	2 2 0	2 1 0	2 1 0	...	...	...	4 8 0	4 8 0	3 13 0	2 8 0	2 12 0	2 7 0
3	Dacca ...	3 0 0	3 0 0	3 0 0	2 13 0	2 7 0	1 8 0	3 4 0	3 0 0	4 0 0	2 13 0	2 13 0	2 12 0
4	Naraingunge	...	...	...	...	...	...	2 13 0	3 0 0	3 0 0	2 9 0	2 14 0	2 12 0
5	Chittagong ...	3 8 0	3 8 0	3 12 0	...	...	...	3 4 0	3 4 0	4 0 0	2 10 0	2 10 0	3 0 0
6	Patna ...	2 3 6 (Red.) / 2 5 6 (White.)	2 4 6 / 2 6 6	... / 2 7 0	1 9 6	1 10 6	1 13 6	3 12 0	3 12 0	3 14 0	2 5 6	2 6 0	2 14 6
7	Balasore ...	2 8 0	2 8 0	2 6 0	3 0 0	3 0 0	3 0 0	3 4 0	3 8 0	3 0 0	2 0 0	2 6 0	2 5 0
8	Pooree ...	..	.	...	...	...	...	...	...	...	2 4 0	2 4 0	2 6 0
9	Cuttack ...	2 5 0	3 10 0	3 4 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	2 5 0	3 10 0

CALCUTTA,
The 12th August, 1890.

1st July, 1890.

PRICES PER MAUND

JOWAR OR CHOLUM. (*Sorghum Vulgare.*)			BAJRA OR CUMBU. (*Pennisetum typhoideum.*)			OR TIUR. N PEA. *indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
1 13 5	1 14 1	...	2 12 1	2 14 0	3 4 0	1 7	2 2 10	0 5 9	0 5 9	0 5 6	3 9 3	3 9 4	3 8 0	Calcutta.
...	...	...	...	...	...	...	...	...	...	...	3 12 0	3 12 0	3 14 0	Serajgunge.
...	...	...	...	...	...	0 0	2 6 0	0 6 0	0 4 0	0 4 0	0 4 0	4 2 0	3 15 0	Dacca.
...	...	...	...	...	...	12 0	3 12 0	0 8 0	0 8 0	0 10 0	3 13 0	3 13 0	3 12 0	Naraingunge.
...	...	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 14 0	Chittagong.
2 1 0	1 12 0	2 5 3	...	...	...	1 11 6	1 13 6	0 5 6	0 5 6	0 5 0	3 11 6	3 13 0	3 12 6	Patna.
...	...	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 0 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	3 7 0	3 7 0	3 12 0	Pooree.
...	...	...	...	...	...	1 11 0	2 5 0	0 8 0	0 8 0	0 8 0	4 7 0	4 7 0	3 12 0	Cuttack.

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or general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Provinc … l for the month of July 1890.

Meteorological Division	District	Representative stations	Station Observations: Air Pressure — Highest, 8 A.M., barometer reading of month	Air Pressure — Lowest, 8 A.M., barometer reading of month	Air Pressure — Mean, 8 A.M., for month	Air Pressure — Mean reduced to sea-level	Air Pressure — Variation from normal mean	Temperature — Highest of month	Temperature — Lowest of month	Temperature — Mean daily maximum temperature	Temperature — Mean daily minimum temperature	Temperature — Mean daily temperature	Temperature — Variation from normal mean	Humidity — Mean, 8 A.M., humidity	Humidity — Variation from normal mean	Cloud — Mean cloud amount, 8 A.M.	Cloud — Variation from normal mean, 8 A.M.
Orissa	Pooree	Pooree	29·790	29·413	29·596	29·608	—	93·7	75·6	87·0‡	79·5‡	83·3‡	—	87	—	8·6	—
		Gopalpore	29·780	29·478	29·587	29·609	+·030	90·2	75·4	83·2	79·3	81·3	—0·7	84	—1	6·1	—
		False Point	29·779	29·303	29·579	29·601	—·013	94·5	78·1	86·4	77·4	81·9	—1·1	87	—1	9·0	+0·8
	Cuttack	Cuttack	29·739	29·376	29·526	29·607	+·004	94·9	73·8	88·3	77·9	83·1	—1·1	80	—1	8·8	+1·3
	Balasore	Balasore	29·667	29·402	29·524	29·583	—·017	94·3	72·8	87·5	78·8	83·1	+0·1	85	—	5·9	—
South-West Bengal	South-West Midnapore and South 24-Pergunnahs	Saugor Island	29·764	29·407	29·560	29·586	—·009	91·2	76·0	86·8	80·3	83·6	—0·5	88	—2	9·6	+1·3
	Midnapore	Midnapore	29·624	29·304	29·432	29·582	—·017	96·3	75·1	89·2	78·0	83·6	—0·2	83	—	4·1	—
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	29·758	29·444	29·580	29·582	—·009	90·0	75·2	87·2	77·8	82·5	—0·8	88	+1	8·8	—0·9
	Burdwan	Burdwan	29·635	29·346	29·465*	29·565*	—·025	95·1	76·9	86·6	76·1	81·4	—0·5	85	0	5·3	—3·2
	Bankoora	Bankoora	29·430	29·134	29·256	29·554	—·013	95·1	75·6	88·8	77·7	83·3	—0·6	87	—	7·9	—
	West Burdwan and Beerbhoom	Ranigunge	29·456	29·146	29·262	29·595	+·010	95·5	75·4	88·9	77·8	83·4	—0·7	86	—	8·1	—
	Moorshedabad	Berhampore	29·697	29·413	29·536	29·573	—·023	92·7	74·3	88·5	77·4	83·0	—1·1	93	+7	9·2	0
	Nuddea	Krishnagore	29·721	29·427	29·529	29·577	—·008	91·8‡	74·3‡	89·0‡	77·6‡	83·3‡	—0·6	86	—	8·4	—
	Jessore and Khoolna	Jessore	29·745	29·447	29·558	29·593	—·017	92·3	76·4	88·5	78·6	83·6	·0·7	91	0	9·2	0
East Bengal	Chittagong	Chittagong	29·767	29·397	29·582	29·672	0	91·2	70·0	86·4	74·4†	80·6†	—0·4	91	+3	7·9	0
	Chittagong Hill Tracts	Demagri						Observations not received.									
	Backergunge	Barrisal	29·780	29·498	29·602	29·614	+·001	89·8	71·9	85·7	77·5‡	81·6‡	—0·2	82	—	8·7	—
	Noakholly	Noakholly	29·769	29·474	29·609	29·653	0	88·0	73·8	84·5	76·4	80·5	—0·9	90	—	4·3	—
	Furreedpore	Furreedpore	29·746	29·482	29·574	29·614	—·004	90·0	70·4	86·4	78·4	82·4	—0·4	90	—	7·0	—
	Dacca	Dacca	29·753	29·468	29·583	29·666	—·019	91·1	74·0	86·6	77·1	81·9	—2·0	92	+3	9·2	+1·3
	Tipperah	Commillah	29·769	29·478	29·592	29·628	—·013	91·3	73·8	86·3	76·0	81·2	—0·9	90	—	7·2	—
	Mymensingh	Mymensingh	29·717	29·415	29·551	29·600	—·024	91·7	75·6	85·4	77·5	81·5	—1·4	92	—	8·2	—
North Bengal	Bogra	Bogra	29·691	29·398	29·513	29·576	—·010	93·8	70·1	88·2	78·0	83·1	—0·5	89	—	6·5	—
	Pubna	Serajgunge	29·727	29·435	29·547	29·594	—·021	92·7	75·7	86·9	77·9	82·4	—1·0	92	—	8·2	—
	Rajshahye	Rampore Beauleah	29·697	29·414	29·508	29·577	—·006	91·8	74·6	87·4	77·9	82·7	—1·0	89	—	3·7	—
	Maldah	Maldah	29·674	29·472	29·491	29·571	—	94·7	75·9	89·2‡	78·0‡	83·9*	—	89	—	5·4	—
	Dinagepore	Dinagepore	29·637	29·330	29·458	29·578	—·046	94·6	78·1	88·0	79·7	83·9	—0·4	90	—	9·0	—
	Rungpore	Rungpore	29·657	29·335	29·483	29·607	—·022	95·8	74·7	88·2	77·9	83·1	—1·0	86	—	4·2	—
	Julpigoree and Cooch Behar	Julpigoree	29·476	29·159	29·369	29·596	—·006	90·9	74·1	86·9	75·9	81·4	—1·3	95	—	3·1	—
	Darjeeling Hill Tracts	Darjeeling	22·988	22·721	22·840	—	—·042	70·6	53·6	65·2	57·2	61·2	—0·6	98	+4	9·2	+0·4
North Behar	Purneah and North Bhagulpore	Purneah	29·630	29·316	29·442	29·568	—·028	94·7	75·4	88·2	77·9	83·1	—1·5	90	+2	8·8	+1·3
	Mozufferpore	Mozufferpore	29·576	29·263	29·359	29·538	—	94·3	75·2	87·5	78·9	83·2	—	93	—	6·8	—
	Durbhunga	Durbhunga	29·594	29·281	29·392	29·559	—·032	94·9	75·5	87·0	77·9	82·9	—1·6	88	+4	7·7	+1·1
	Chumparun	Motihari	29·541	29·234	29·336	29·503	—·014	95·2	74·9	88·7	78·0	83·4	—1·0	88	—	7·9	—
	Sarun	Chupra	29·549	29·279	29·344	29·587	—·032	95·3	74·6	87·8‡	78·3	83·1‡	—2·1	89	—	5·4	—
South Behar	Shahabad	Dehree	29·396	29·102	29·201	29·535	—·015	94·3	70·0	87·1‡	77·0‡	82·0‡	—0·7	85	—	7·4	—
		Buxar	29·507	29·213	29·225	29·547	—·041	91·9	74·3	85·0	77·9	81·9	—2·8	80	—	8·7	—
		Arrah	29·530	29·245	29·341	29·537	—·032	94·4	71·7	87·0	77·8	82·7	—2·2	90	—	8·6	—
	Gya	Gya	29·350	29·081	29·177	29·555	—·023	99·0	75·5	88·1	78·0†	83·3†	—1·7	83	+3	7·9	—1·1
	Patna	Bankipore	29·563	29·257	29·358	29·542	—·043	96·0	75·2	87·8	78·8	83·3	—1·9	88	+5	9·3	+1·0
	South Bhagulpore and Monghyr	Bhagulpore	29·587	29·273	29·387	29·549	—·024	94·2	70·0	88·3	78·5	83·4	—1·1	88	—	8·9	—
	Sonthal Pergunnahs	Naya Doomka	29·260	28·973	29·067	30·502	—·015	93·6	73·7	87·4	76·9	82·2	—1·0	86	—	5·5	—
Chutia Nagpur	Hazaribagh	Hazaribagh	27·709	27·473	27·577	29·578	—·018	87·5	70·2	82·4	72·8	77·6	—1·5	90	+4	9·7	+0·4
	Lohardugga and Manbhoom	Ranchee	27·654	27·353	27·457	29·574	—·017	87·6	69·4	82·2	71·7	77·0	—1·2	86	—	9·1	—
	Singbhoom	Chyebassa	29·024	28·684	28·811	29·575	+·003	92·9	73·7	86·2	77·0	81·6	—0·5	83	—	8·4	—
Assam	Assam	Sibsagar	29·428	29·197	29·319	29·653	—·018	97·1	75·5	85·7	77·3	83·1	—1·4	94	+3	9·7	+0·5
		Dhubri	29·661	29·335	29·489	29·606	—·017	89·2	75·8	85·1	77·1‡	81·3*	—2·0	93	+4	9·2	+2·9
		Silchar	29·707	29·423	29·551	29·657	—·011	94·5	74·3	86·9	76·6	82·8	—0·9	90	+4	9·6	+1·4

* Mean of 28 days.
† ,, 29 ,,
‡ ,, 30 ,,

Meteorological Division	Representative station	District	District Observations: Rainfall — Of month — Normal mean	Of month — Variation from mean	Of month — Number of rainy days	Of month — Normal mean number of rainy days	Since 15th May 1890 — Mean of district	Since 15th May 1890 — Normal mean	Since 15th May 1890 — Variation	Since 15th May 1890 — Mean number of rainy days	Since 15th May 1890 — Normal mean number of rainy days
Orissa	Pooree, Gopalpore, False Point	Pooree	11·99	+4·07	19·3	18·1	28·15	22·12	+6·03	40·1	32·6
	Cuttack	Cuttack	12·23	+2·47	19·4	17·9	27·08	21·82	+5·26	39·6	34·1
	Balasore	Balasore	13·01	—5·85	13·7	17·7	24·19	23·98	+0·21	37·7	33·9
South-West Bengal	Sangor Island	South-West Midnapore and South 24-Pergunnahs.	15·46	—8·10	17·0	20·1	24·24	27·52	—3·28	41·7	38·3
	Midnapore	Midnapore	12·75	—3·45	18·3	17·5	29·73	24·32	+5·41	45·6	34·0
	Calcutta	24-Pergunnahs, Howrah, and Hooghly.	12·44	—3·41	19·7	21·8	28·31	24·93	+3·38	43·5	42·1
	Burdwan	Burdwan	10·58	+3·86	19·7	17·9	37·56	22·08	+15·48	43·7	35·7
	Bankoora	Bankoora	13·39	+0·78	20·8	20·2	32·84	25·48	+7·36	43·3	34·3
	Ranigunge	West Burdwan and Beerbhoom.	12·94	+3·06	23·5	20·8	34·99	25·01	+9·98	45·9	39·5
	Berhampore	Moorshedabad	10·88	+6·81	23·8	18·9	31·99	23·16	+8·83	41·6	37·2
	Krishnagore	Nuddea	11·24	+1·3	19·8	18·1	27·59	23·47	+4·12	43·4	37·9
	Jessore	Jessore and Khoolna	11·19	+0·44	23·9	20·3	30·94	26·88	+4·06	48·2	42·3
East Bengal	Chittagong	Chittagong	31·06	+17·14	26·5	25·5	77·98	65·97	+12·01	52·5	53·0
	Demagri	Chittagong Hill Tracts	17·40	+5·31	25·5	24·5	43·36	41·06	+2·30	52·0	52·5
	Barrisal	Backergunge	17·95	+1·48	27·5	25·2	41·82	41·07	+0·75	53·8	51·8
	Noakholly	Noakholly	23·27	+2·52	29·9	24·7	53·59	55·36	—1·77	56·0	51·1
	Furreedpore	Furreedpore	11·90	—0·76	23·0	20·2	23·75	28·79	—5·04	45·6	43·5
	Dacca	Dacca	14·03	+0·86	20·5	20·8	30·85	31·37	+5·48	54·9	45·2
	Commillah	Tipperah	13·82	+2·09	24·0	21·8	37·45	34·52	+2·93	49·3	47·2
	Mymensingh	Mymensingh	13·36	+3·68	22·6	19·9	44·38	35·81	+8·57	50·8	44·6
North Bengal	Bogra	Bogra	12·75	+0·72	25·0	17·6	34·19	30·12	+4·07	47·8	38·8
	Serajgunge	Pubna	10·57	+0·04	25·0	18·1	27·27	25·52	+1·75	48·5	40·1
	Rampore Beauleah	Rajshahye	11·35	+7·72	24·3	17·5	41·84	25·95	+15·89	47·6	36·6
	Maldah	Maldah	11·99	—0·70	22·5	20·8	24·97	26·04	—1·07	46·5	40·2
	Dinagepore	Dinagepore	12·05	+4·75	20·2	19·1	36·81	29·74	+7·07	43·2	38·4
	Rungpore	Rungpore	13·99	+0·51	25·3	15·5	49·08	42·69	+4·29	57·8	39·4
	Julpigoree	Julpigoree and Cooch Behar.	20·22	+9·83	26·2	20·9	78·43	60·75	+17·68	63·4	51·6
North Behar	Darjeeling	Darjeeling Hill Tracts.	32·70	+27·52	29·8	26·0	97·04	67·90	+29·14	69·8	57·8
	Purneah	Purneah and North Bhagulpore.	18·76	+9·28	22·6	18·0	41·48	28·31	+13·17	44·0	33·3
	Mozufferpore	Mozufferpore	11·42	+8·78	21·3	14·7	30·34	20·20	+10·14	38·3	25·7
	Durbhunga	Durbhunga	11·59	+11·35	21·7	14·3	35·03	20·98	+14·05	39·7	26·2
	Motihari	Chumparun	11·57	+13·81	20·5	13·3	39·75	21·11	+18·64	38·0	25·1
	Chupra	Sarun	12·18	+5·10	20·7	15·9	29·48	19·72	+9·76	35·4	26·3
South Behar	Dehree, Buxar, Arrah	Shahabad	11·35	+5·09	22·2	17·2	27·35	17·22	+10·13	36·6	27·4
	Gya	Gya	12·23	+5·24	21·8	16·0	31·56	19·22	+12·34	36·1	26·2
	Bankipore	Patna	11·95	+3·45	21·3	17·0	25·16	19·64	+5·52	34·4	28·1
	Bhagulpore	South Bhagulpore and Monghyr.	11·60	+5·29	21·8	18·2	31·70	20·17	+11·53	39·8	31·0
	Naya Doomka	Sonthal Pergunnahs	12·86	+2·69	23·8	19·7	33·42	24·23	+9·19	44·5	36·2
Chutia Nagpur	Hazaribagh	Hazaribagh	13·44	+4·47	25·0	21·3	30·25	23·08	+7·17	42·2	36·9
	Ranchee	Lohardugga and Manbhoom	12·80 12·07	+3·70 —1·29	22·3 25·0	21·6 21·4	25·72 24·03	22·02 21·81	+3·70 +2·22	39·6 44·5	37·7 39·4
	Chyebassa	Singbhoom	12·27	—4·85	19·0	21·7	21·55	25·14	—3·59	41·0	42·5
Assam	Sibsagar, Dhubri, Silchar	Assam									

Table of Rainfall recorded at Stat[ions] … [Rainfal]l in July 1890.

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ORISSA	Pooree	Pooree	2'28	0'22	...	...	...	...	0'82	0'39	...	1'39	0'04	...	...	...	...	0'38	0'02	...
		Khurdah	1'14	8'24	...	0'20	...	0'65	0'98	0'39	0'13	0'62	1'59	...	0'18	0'02	...	...	...	...
		Banpur	3'75	...	...	...	...	0'11	0'04	0'03	1'36	...	...	...	...	2'00	...	0'42	...	0'44
		False Point	1'38	1'64	...	0'51	...	0'05	0'70	0'73	...	1'03	0'60	...	...	0'75	1'69	...	...	...
		Gop	5'40	...	...	...	...	...	...	0'53	0'19	...	...	...	...	...	...	...	0'12	0'30
		Satpara	1'50	5'75	...	...	...	...	0'05	0'40	0'05	1'05	...	...	...	...	...	...	...	...
		Pipli																		
	Cuttack	Jagatsingpore	2'70	1'25	...	0'05	...	...	0'65	1'30	1'10	0'50	0'70	...	...	...	0'25	0'57	0'25	...
		Banki	2'35	4'06	...	...	...	0'30	0'28	0'50	...	0'88	0'18	...	...	...	0'18	0'25	...	0'15
		Cuttack	2'50	4'72	0'16	...	...	...	...	0'96	0'03	0'71	0'20	0'83	0'02	...	...	...	0'35	...
		Kendrapara	1'76	2'99	0'03	...	...	...	0'04	0'63	0'04	0'47	0'53	0'22	0'21	...	0'15	0'01	0'01	...
		Jajpore	2'26	1'96	...	...	...	...	...	0'77	0'43	0'47	0'23	0'44	...	...	...	...	...	...
		Dharmsalla	3'90	...	...	...	...	...	1'15	0'15	0'40	0'35	0'22	1'00	...	...	...	...	...	...
		Salipore	4'60	0'04	...	...	...	...	...	1'40	...	0'80	0'15	0'33	...	...	0'20	0'50	...	...
	Balasore	Chandbali	1'17	1'66	...	...	...	0'07	...	0'20	0'22	0'72	0'50	0'12	...	...	...	0'27	...	...
		Bhuddruck	0'45	1'80	...	...	...	...	...	0'30	...	...	1'67	0'65	...	...	...	...	...	...
		Sorah	1'80	...	...	...	...	...	...	0'60	...	0'60	...	...	...	0'70	...	...	...	0'50
		Balasore	1'28	0'67	0'20	...	0'03	0'15	0'08	...	...	0'04	0'25	...	...	...	...	0'51	...	...
		Jellasore	0'15	0'80	0'16	...	...	1'30	...	...	...	...	0'18	...	...	...	...	...	0'50	0'30
		Baripodah	0'60	...	...	...	0'20	0'26	0'22	...	0'45	1'35	0'12	0'05	0'12	...	...	...	0'05	0'30
SOUTH-WEST BENGAL.	Midnapore	Contai	0'20	0'18	...	...	...	0'30	1'98	...	...	...	0'09	...	0'03	...	0'01	...	...	0'15
		Saugor Island	0'21	0'45	0'36	...	0'05	1'73	2'71	0'03	...	0'18	0'52	...	...	...	...	0'41	...	0'03
		Tumlook	0'70	0'30	0'50	...	0'20	0'50	...	...	...	1'00	0'30	0'30	...	...	...	...	...	...
		Midnapore	1'00	0'10	0'59	...	...	1'20	...	0'03	...	...	0'19	...	...	...	0'04	...	...	...
		Ghatal	1'16	0'14	0'01	...	0'02	0'89	0'09	0'06	...	1'63	0'04	0'32	0'04	0'01	...	...	0'35	...
		Kukrahaty	0'23	0'21	0'17	...	0'12	0'64	...	...	0'26	0'53	0'38	...	...	...	...	...	0'34	0'09
		Garbeta	0'05	0'21	0'18	...	0'04	0'13	0'82	0'12	0'45	0'18	0'19	...	...	...	0'12	...	0'22	0'08
	24-Pergunnahs	Diamond Harbour	0'43	0'12	0'22	...	0'02	0'92	0'06	...	0'22	0'15	0'57	...	...	...	...	0'02	...	...
		Canning Town	...	0'30	0'45	...	0'15	1'15	...	...	0'20	1'10	1'14	0'15	...	...	0'04	0'16	...	0'14
		Alipore Jail	...	0'09	0'02	...	0'14	1'88	0'15	...	0'04	3'82	0'39	0'07	...	...	...	0'04	...	0'04
		Barrackpore	0'60	0'13	...	...	...	1'05	0'40	...	...	1'30	0'05	...	...	0'38	0'22	...	...	...
		Dum-Dum	0'16	0'36	0'02	...	...	0'36	0'02	...	...	1'82	0'42	0'13	...	...	...	0'14	...	...
		Baraset	0'10	0'44	0'10	...	...	0'10	0'91	...	...	1'12	0'81	...	...	...	...	...	...	...
		Busseerhat	...	1'70	0'50	...	0'40	...	0'40	...	...	0'63	0'04	...	...	...	0'50	0'14	...	...
	Howrah	Howrah	0'01	0'18	0'03	...	0'07	1'42	0'10	...	0'10	2'70	0'35	0'01	0'01	...	...	0'24	0'05	...
		Mohesreka (*Oolooberiah*).	0'04	0'32	0'10	...	0'03	1'25	0'19	...	0'10	0'13	0'21	0'09	0'03	0'01	0'05	0'02	...	...
	Hooghly	Serampore	0'60	0'20	0'16	...	...	0'89	0'35	...	0'09	1'05	0'12	...	0'04	0'28	0'02	0'03	...	...
		Hooghly	0'16	...	0'35	...	...	0'42	0'03	...	0'11	0'43	[illegible]	0'36	...	...	...	0'15	0'64	...
		Jehanabad	0'80	0'09	0'18	...	0'10	0'07	...	...	0'10	1'68	0'25	0'02	...	...	0'05	...	0'05	...
	Burdwan	Culna	...	0'05	0'12	0'02	...	...	1'17	...	0'78	0'07	0'22	...	...	...	...	...	2'98	...
		Burdwan	...	0'05	...	...	...	0'14	0'57	...	2'80	2'10	0'53	0'43	0'01	...	...	...	1'53	0'03
		Cutwa	0'15	0'01	...	...	2'78	0'26	...	0'39	0'17	0'14	...	...	0'39	...	...	...	1'02	1'05
		Raneegunge	...	0'06	...	...	0'16	0'57	0'53	0'01	1'13	2'37	0'55	0'04	0'09	...	0'19	...	0'01	2'85
		Mankur	...	0'18	...	...	0'29	0'42	...	0'07	1'38	1'26	1'15	0'71	...	...	0'13	...	0'42	0'25
	Bankoora	Bankoora	...	0'57	0'38	...	...	0'76	0'02	0'22	1'14	1'80	0'31	...	...	0'02	...	...	1'86	0'03
		Bishonpore	...	0'24	...	...	0'29	0'33	0'05	1'19	0'84	0'40	0'29	...	...	0'05	...	...	0'07	...
		Maliara	...	0'71	...	...	0'20	0'76	0'29	0'01	3'38	0'90	0'83	0'80	...	0'11	...	...	0'00	1'08
		Khatra	...	0'70	0'45	...	0'35	0'42	0'10	...	...	0'25	0'30	...	...	...	...	...	...	...
		Indas	...	0'25	0'04	...	0'04	2'18	1'00	0'11	3'69	1'16	1'73	0'39	...	...	...	...	1'34	0'06
		Kotalpore	...	0'17	0'04	...	...	0'60	0'43	0'27	3'15	2'11	0'43	1'38	...	...	...	...	0'54	...
		Anda	...	1'30	...	...	0'60	0'50	...	2'00	1'14	0'60	0'40	...	...	...	...	1'61	...	2'11
		Gangajalghati	...	...	...	...	...	2'25	0'40	...	3'79	0'30	0'42	0'15	...	...	...	...	0'32	1'15
		Raipore	0'45	0'78	0'32	...	0'82	2'45	0'93	0'45	...	0'85	...	...	...	...	...	...	0'15	...
		Sonamukhi	...	0'48	...	...	...	1'18	...	...	0'79	3'09	1'62	3'52	...	...	...	...	...	0'14
	Beerbhoom	Bh. Soory	...	...	0'15	...	0'16	3'17	0'05	2'97	0'20	2'16	0'21	0'83	...	0'24	...	...	1'25	0'27
		Hetampore	0'93	...	...	0'85	0'64	0'60	0'87	0'15	0'40	0'80	0'65	...	0'10	...	...	0'77	0'43	1'45
		Rampore Haut	...	0'30	0'04	...	0'45	0'50	...	0'30	2'34	0'45	0'30	...	...	...	...	...	2'40	0'72
		Bolpur	...	0'29	...	...	0'35	0'32	0'22	...	...	2'36	0'35	...	...	...	...	...	1'65	1'00
		Murarai	...	1'04	0'15	...	1'02	...	1'80	0'80	1'75	0'65	...	1'50	...	...	...	0'45	0'75	1'25
	Nuddea	Ranaghat	...	...	0'73	...	1'30	0'40	...	...	0'10	0'65	0'16	...	...	...	...	...	4'05	0'06
		Kishnaghur	...	...	0'30	0'18	...	0'56	0'15	0'02	0'90	0'22	0'11	0'22	0'03	2'86	...	0'02	1'54	0'08
		Chooadanga	...	...	0'05	...	...	1'60	...	0'03	2'22	0'75	0'21	0'08	0'52	...	...	...	0'40	...
		Meherpore	...	...	0'45	...	...	0'73	...	...	1'40	0'30	0'42	0'40	0'60	...	...	...	2'50	...
		Kooshtea	...	...	0'32	0'11	0'17	2'32	0'04	0'28	0'25	0'74	0'50	0'20	...	0'04	...	0'02	0'87	...
	Khoolna	Satkhira	...	0'03	1'04	0'01	0'39	0'09	0'06	0'37	0'22	0'08	0'33	0'05	0'03	0'01	0'40	0'10	0'21	[illegible]
		Bagirhat	0'37	0'46	0'17	...	0'32	0'43	0'09	...	0'95	0'81	...	...	0'42	0'35	...	0'15	0'12	...
		Khoolna	0'26	0'10	0'21	...	0'35	0'28	1'20	0'16	1'76	0'96	0'36	0'41	0'36	...	0'10	...	0'15	[illegible]
		Nakipur	0'20	...	0'30	...	0'81	0'22	0'56	...	...	0'83	...	0'65	0'58	...	0'42	...	...	[illegible]
		Rampal	0'21	0'72	0'43	...	0'51	0'27	0'46	...	2'18	1'07	0'21	...	1'56	...	...	0'31	...	[illegible]
	Jessore	Narail	0'75	0'24	...	0'10	0'45	...	0'19	0'23	0'49	0'02	0'69	0'48	0'05	0'16	...	0'50	...	[illegible]
		Jessore	0'13	0'04	...	0'45	0'12	...	...	0'03	2'50	0'13	0'12	0'06	0'31	0'08	0'04	0'06	0'35	[illegible]
		Jhonidah	...	...	...	...	...	1'02	0'76	0'11	3'33	0'21	0'22	0'35	...	0'12	...	...	1'89	...
		Makoorah	0'22	0'23	0'05	0'07	0'15	0'09	...	0'10	2'45	0'05	0'61	0'02	...	0'02	0'06	0'02	0'42	[illegible]
		Bongong	...	...	0'30	0'25	0'70	...	0'08	...	...	0'35	0'30	...	0'50	0'39	...	...	2'13	[illegible]
	Moorshedabad	Kandi	...	...	0'30	...	...	1'10	...	...	...	0'40	0'40	2'49	1'69	...	...	...	0'45	[illegible]
		Berhampore	...	...	0'14	...	...	0'63	0'06	0'28	0'15	0'33	0'26	1'20	...	0'10	0'23	0'03	1'00	[illegible]
		Lalbagh	...	0'08	...	0'06	...	0'62	0'06	0'10	0'96	0'70	1'29	0'24	...	0'90	0'15	...	1'98	[illegible]
		Azimgunge	...	...	0'30	0'06	...	0'50	0'07	...	1'70	0'95	1'15	...	...	0'90		0'30	0'19	[illegible]
		Jungipore	0'09	0'10	0'14	0'22	0'47	0'99	0'09	0'22	0'18	0'04	0'40	1'12	...	0'01	0'18	...	0'07	[illegible]
		Lalgola	...	0'15	0'55	0'20	0'65	4'62	0'20	0'30	0'75	0'50	1'10	...	...	...	0'50	...	...	[illegible]
		Jugunge	...	...	0'26	0'07	...	0'47	0'09	0'12	1'31	0'96	1'11	0'15	...	0'67	0'17	...	0'14	[illegible]
		Akhriganj	...	0'47	0'07	0'29	0'02	0'49	1'36	0'24	1'85	1'63	1'18	0'05	0'18	0'11	0'09	...	1'45	[illegible]
		Patkabari	...	0'55	...	...	0'65	1'00	0'10	...	0'20	0'20	1'20	0'40	0'40	...	...	1'10	...	[illegible]
EAST BENGAL	Chittagong	Cox's Bazar	...	0'04	1'69	0'80	1'11	0'23	[illegible]	0'40	1'30	1'44	1'05	1'80	1'08	0'70	...	0'40	0'80	[illegible]
		Chittagong	...	...	0'24	0'26	1'28	...	1'17	2'20	9'70	0'56	2'68	0'38	0'45	...	...	0'90	0'82	[illegible]
		Kutubdia	0'25	...	0'58	1'15	1'62	0'50	1'21	1'20	0'10	1'50	2'10	2'50	0'95	0'37	...	0'02	1'30	[illegible]
		Satkanya	...	...	1'00	0'82	4'15	...	0'94	0'45	0'50	0'50	0'94	0'50	0'50	0'13	...	...	0'48	[illegible]
	Chittagong Hill Tracts.	Rangamati	...	0'42	0'36	0'39	0'65	0'45	0'46	1'55	...	0'63	0'12	0'10	0'37	...	1'05	0'37	0'36	
		Ruma	...	0'47	0'56	3'08	2'40	0'70	0'15	0'10	0'13	0'50	0'25	0'07	0'03	0'20	0'30	0'30	1'00	

Meteorological division.	District.	Station.	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st July 1890.	Average rainfall from 1st January up to 31st July.
ORISSA.	Pooree	Pooree		...	0'17	0'09	0'06	0'04	...	0'11	0'69	0'44	19	17'9	14'81	9'91	6'22	27'34	22'92
		Khurdah		0'05	3'20	1'14	...	0'17	0'52	1'23	0'64	0'20	20	22'1	21'14	12'55	8'24	44'15	27'46
		Banpur		0'40	0'00	...	...	...	0'03	0'26	0'42	2'00	18	13'8	14'02	10'94	3'75	28'22	21'65
		False Point		0'03	0'08	0'42	...	0'23	0'03	1'27	0'43	0'13	20	18'4	12'87	14'15	1'64	25'74	31'51
		Gop		...	1'10	...	2'50	2'60	1'04	0'10	0'12	...	14	P	18'53	P	5'40		P
		Satpara		0'35	0'10	...	...	...	...	0'16	0'60	...	11	P	11'21	P	5'75		P
		Pipli												P		P			P
	Cuttack	Jagatsingpore	[illegible]	...	1'30	0'60	...	...	0'80	0'54	0'10	0'22	19	15'3	15'06	10'98	2'70	28'01	23'77
		Banki	[illegible]	0'07	1'43	...	...	0'13	1'17	...	0'26	0'17	19	21'6	14'70	11'78	4'06	33'49	27'19
		Cuttack	[illegible]	0'35	1'50	0'83	0'67	0'50	...	1'76	0'25	0'40	20	22'8	[illegible]	12'40	4'72	39'62	20'74
		Kendrapara	[illegible]	0'42	1'13	0'35	...	0'32	0'74	0'23	0'31	...	24	14'5	11'25	11'79	2'99	20'29	27'35
		Jajpore	[illegible]	0'45	...	1'95	...	...	...	0'89	0'14	...	15	15'1	11'33	13'10	2'26	28'15	31'74
		Dharmsala	[illegible]	0'17	0'95	...	...	...	0'30	1'16	...	...	14	P	11'37	P	3'90	31'62	P
		Salipore	[illegible]	1'63	0'53	0'07	0'15	0'17	0'53	0'05	0'21	0'04	19	P	12'94	P	4'60	28'60	P
	Balasore	Chandbali	[illegible]	0'25	4'10	0'45	...	0'14	...	0'04	...	...	17	15'2	10'50	11'83	4'10	24'92	27'66
		Bhuddruck	[illegible]	...	...	0'75	...	...	...	0'09	...	...	10	16'8	7'24	12'09	1'80	30'22	31'02
		Sorah	[illegible]	1'20	...	0'40	...	...	...	...	...	...	8	16'8	6'20	11'95	1'80	28'54	28'08
		Balasore	[illegible]	...	0'54	0'08	0'16	0'04	...	...	...	...	16	19'0	5'76	11'89	1'30	30'09	33'43
		Jellasore	[illegible]	...	1'62	0'10	...	...	...	...	...	...	10	16'0	5'79	15'10	1'62	28'88	30'59
		Baripodah	[illegible]	0'15	0'02	0'15	0'07	0'32	...	...	0'12	...	21	23'1	7'49	12'33	2'10	29'16	31'33
SOUTH-WEST BENGAL.	Midnapore	Contai	[illegible]	...	...	0'08	...	...	...	...	...	0'26	13	17'2	3'76	14'41	1'98	26'40	33'52
		Saugor Island	[illegible]	...	0'18	...	...	...	0'05	...	...	0'09	17	20'7	8'07	15'98	2'71	24'48	35'48
		Tumlook	[illegible]	0'20	0'50	...	...	1'30	3'00	...	0'50	0'30	17	13'0	10'40	12'25	3'00	33'50	30'92
		Midnapore	[illegible]	0'53	0'25	...	0'30	...	0'21	...	...	0'14	15	20'1	5'94	13'90	1'20	30'82	33'35
		Ghatal	[illegible]	0'71	1'67	...	0'64	0'06	2'90	0'06	0'17		23	19'3	11'57	13'62	2'96	30'84	33'38
		Kukrahaty	[illegible]	...	0'52	...	...	...	1'13	...	...	0'21	16	P	6'10	P	1'13	19'78	P
		Garbeta	[illegible]	0'19	0'04	...	0'24	3'58	0'12	4'20	0'60	...	23	P	15'22	13'53	4'20	35'71	30'62
	24-Pergunnahs.	Diamond Harbour	[illegible]	0'04	0'62	0'15	...	1'72	0'02	0'14	...	2'35	21	22'3	10'26	14'53	2'35	27'87	34'95
		Canning Town	[illegible]	...	1'47	0'13	...	...	0'84	0'05	0'74	0'30	20	P	10'41	P	1'47	29'95	P
		Alipore Jail	[illegible]	1'45	0'23	...	...	0'01	0'71	0'08	...	0'42	21	23'9	11'55	13'37	3'82	32'58	34'13
		Barrackpore	[illegible]	0'58	0'73	...	0'04	...	2'35	0'15	0'11	0'04	19	18'0	8'76	12'19	2'35	27'06	31'80
		Dum-Dum	[illegible]	1'19	0'16	...	...	0'23	0'86	...	...	0'04	16	22'6	6'88	12'18	1'82	25'70	32'03
		Baraset	[illegible]	0'57	0'28	...	0'10	...	1'88	...	...	0'13	14	20'8	7'32	11'24	1'88	26'75	32'26
		Busseerhat	[illegible]	2'40	1'78	0'03	...	...	1'20	...	...	0'30	15	20'1	11'31	12'82	2'40	38'71	35'67
	Howrah	Howrah	[illegible]	0'83	0'36	...	...	0'41	0'50	0'04		0'15	22	24'2	8'61	12'60	2'70	26'94	34'11
		Mohesreka (*Oolooberiah*)	[illegible]	0'50	...	...	...	1'05	1'92	...	0'04	0'01	23	23'2	6'50	13'48	1'92	37'84	32'75
	Hooghly	Serampore	0'02	0'10	1'05	...	0'02	0'26	2'51	0'13	0'11	0'04	24	23'7	9'08	13'18	2'51	28'69	32'66
		Hooghly	0'18	1'54	0'10	...	...	0'45	0'46	0'30	...	0'36	20	21'5	6'38	12'22	1'64	27'72	34'56
		Johanabad	0'26	1'40	1'23	...	0'81	0'38	1'14	1'04	2'32	0'58	23	19'4	13'91	12'88	2'32	38'03	31'96
	Burdwan	Culna	...	2'10	0'69	...	0'37	...	0'70	0'47	1'16	0'10	16	14'8	11'88	11'26	2'98	36'01	29'72
		Burdwan	0'14	0'27	3'80	0'03	0'19	2'75	0'28	1'85	0'10	0'28	23	21'8	19'52	12'35	3'80	45'67	31'41
		Cutwa	0'91	0'69	...	...	1'27	0'44	0'19	0'50	0'75	0'11	20	17'1	11'92	10'48	2'78	30'68	30'45
		Raneegunge	0'28	0'01	0'15	0'01	0'45	0'33	0'04	0'15	1'21	0'10	26	21'9	13'47	14'06	2'85	35'58	29'01
		Mankur	0'09	0'16	...	0'72	0'04	0'95	0'33	0'35	0'17	0'35	22	P	10'99	P	1'88	34'01	P
	Bankoora	Bankoora	0'57	...	0'95	...	...	0'89	1'74	0'13	0'65	3'40	21	21'4	20'70	12'78	4'25	30'72	30'35
		Bishonpore	0'06	0'08	0'87	...	...	1'58	0'72	0'42	1'32	0'26	21	19'1	10'85	12'11	1'68	35'03	31'43
		Maliara	0'03	0'29	0'35	...	0'02	0'38	0'34	0'19	0'11	0'85	24	19'0	14'87	14'03	3'36	39'04	20'84
		Khatra	1'23	0'32	1'78	...	...	0'85	0'38	0'32	0'95	0'22	17	21'2	10'24	14'68	1'78	23'71	32'01
		Indas	0'08	0'86	3'14	...	0'04	2'50	0'32	1'38	0'33	0'06	24	P	21'87	P	3'69	42'84	P
		Kotalpore	...	1'06	0'96	...	0'44	5'05	2'03	2'88	0'54	...	20	P	23'34	P	5'05	50'34	P
		Anda	0'20	1'83	...	...	...	1'30	1'20	0'45	0'40	...	17	P	16'85	P	2'11	33'06	P
		Gangajalghati	0'06	...	0'23	...	...	0'50	0'65	0'31	1'56	0'48	18	P	15'93	P	3'79	43'77	P
		Raipore	0'12	0'15	1'25	...	...	1'55	0'45	1'85	0'52	0'39	20	P	15'05	12'09	2'45	35'19	28'19
		Sonamukhi	0'26	0'22	0'70	...	...	0'54	0'79	0'33	0'19	...	17	P	16'08	P	3'52	34'44	P
	Beerbhoom	Bh. Soory	0'96	0'11	0'16	0'49	0'61	0'30	...	1'32	0'42	0'94	24	22'8	20'92	13'64	3'17	40'23	29'03
		Hetampore	0'06	0'40	0'51	0'52	0'12	...	0'40	1'14	0'65	0'64	25	19'7	13'94	14'34	1'45	35'73	31'60
		Rampore Haut	...	0'25	0'65	0'15	...	1'15	1'05	0'70	0'20	0'25	20	18'9	15'65	11'13	2'40	[illegible]	27'55
		Bolpur	...		1'64	0'05	...	1'50	0'34	0'25	1'30	0'31	17	P	13'94	P	2'36	35'85	P
		Murarai	1'06	1'20	0'40	0'20	0'20	0'55	1'95	0'42	0'35	1'05	22	P	19'69	P	1'95	35'36	P
	Nuddea	Ranaghat	...	0'14	0'85	...	0'85	0'82	0'17	0'57	...	0'24	18	16'0	11'87	10'88	4'05	32'07	31'06
		Kishnaghur	0'02	0'55	0'64	...	0'44	0'30	0'12	2'60	0'03	...	24	20'4	13'07	10'32	2'86	34'25	31'44
		Choodanga	0'66	...	0'15	...	0'26	0'20	0'64	0'52	0'07	...	17	17'3	8'76	10'00	2'22	26'43	33'03
		Meherpore	0'80	...	1'05		...	0'63	1'00	2'55	...	0'32	18	17'7	[illegible]	[illegible]	2'55	30'32	31'87
		Kooshtea	0'20	0'40	0'46	0'20	...	0'57	1'19	1'46	0'03	0'05	24	19'2	10'80	11'02	2'34	32'38	35'01
	Khoolna	Satkhira	0'68	1'84	2'27	0'05	0'03	0'52	0'20	0'57	0'30	0'16	30	21'7	10'53	13'41	2'27	38'60	38'21
		Bagirhat	0'19	1'78	1'07	0'21	0'90	2'30	3'65	...	0'50	...	21	20'9	15'53	14'80	3'65	40'30	41'37
		Khoolna	0'90	0'55	1'05	0'03	0'02	...	0'83	0'51	0'48	0'03	26	21'1	12'79	12'09	1'76	37'88	38'20
		Nakipur	0'26	0'98	1'00	0'19	...	...	0'98	...	...	0'21	17	P	9'58	P	1'00	39'07	P
		Rampal	...	2'56	0'52	0'17	...	2'35	1'12	0'00	...	...	19	P	15'40		2'56	39'39	P
	Jessore	Narail	0'21	0'05	0'13	0'32	...	1'00	1'48	0'24	...	...	23	19'9	7'87	9'09	1'48	37'02	33'47
		Jessore	0'54	0'64	0'70	0'04	...	0'34	0'41	1'04	...	0'04	25	23'2	9'10	11'70	2'00	39'64	40'17
		Jhonidah	0'35	1'18	0'44	0'08	0'09	0'19	0'55	8'02	0'32	0'25	20	18'9	20'29	9'75	8'02	37'48	35'06
		Magoorah	0'17	0'08	0'31	0'30	0'16	0'47	0'62	0'93	0'30	0'05	28	21'0	8'35	10'24	2'45	31'50	37'50
		Bongong	0'15	1'00	0'15	...	...	...	0'43	0'35	0'20	0'13	19	15'4	8'69	11'20	2'12	27'08	32'42
	Moorshedabad.	Kandi	...	0'17	0'76	0'70	3'00	2'60	0'80	1'87	0'55	0'16	20	19'5	19'22	12'62	3'00	36'54	30'28
		Berhampore	0'04	0'15	2'08	1'21	4'02	3'98	1'25	1'07	0'15	0'57	26	18'0	20'50	10'39	4'02	33'78	29'20
		Lalbagh	0'69	0'34	2'08	1'80	3'42	1'84	2'10	0'15	0'31	0'55	25	17'8	24'07	10'63	3'42	36'22	27'64
		Azimgunge	0'30	...	1'90	1'00	1'35	1'20	...	0'30	0'17	...	21	19'9	14'13	10'71	1'90	33'50	27'84
		Jungipore	0'65	0'48	0'73	0'58	0'16	0'07	0'70	0'15	1'48	0'12	20	15'0	11'65	10'97	1'48	27'51	27'32
		Lalgola	0'92	...	0'90	0'40	1'25	2'10	0'15	0'45	0'10	0'95	22	18'1	17'54	11'24	4'62	39'45	29'17
		Jaigunge	0'35	0'02	1'65	0'77	1'36	0'96	0'19	0'07	0'16	0'24	26	P	12'70	P	1'65	30'09	P
		Akhriganj	0'23	0'40	0'64	0'85	1'97	1'82	0'23	0'71	0'52	0'10	20	P	18'48	P	1'97	30'21	P
		Patkabari	0'30	2'30	0'20	0'20	0'80	0'20	0'30	0'10	0'70	...	21	P	15'40	P	2'30	31'81	P
EAST BEHAR.	Chittagong	Cox's Bazar	0'95	3'05	3'45	1'70	2'50	4'10	1'20	5'58	1'75	0'20	29	20'3	46'12	41'31	5'58	92'95	90'39
		Chittagong	2'40	0'27	2'97	2'38	5'36	6'53	1'68	7'56	0'77	...	24	24'6	51'28	22'13	9'70	78'21	62'51
		Kutubdia	1'50	2'25	1'88	4'63	4'25	3'60	2'90	2'80	2'00	0'43	[illegible]	P	43'42	P	4'63	70'54	P
		Satkanya	0'37	0'60	3'00	3'00	2'10	8'00	2'50	2'00	0'79	0'06	23	P	33'83	P	8'00	66'15	P
	Chittagong Hill Tracts.	Rangamati	0'13	0'54	1'70	4'05	1'55	1'05	2'80	0'56	...	...	25	25'9	20'96	18'75	4'05	52'83	55'34
		Ruma	...	0'54	1'00	1'75	3'75	3'50	2'25	0'50	0'38	0'60	26	23'1	24'40	15'53	3'75	56'32	50'47

Table of Rainfall recorded at St[...]l in July 1890—*continued.*

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
EAST BENGAL—*concld.*	Backergunge...	Patuakhally ...	...	...	0·52	...	0·10	1·05	...	0·73	0·61	0·10	0·42	0·50	1·50	1·25	0·07	...	...	4·00
		Perozepore ...	0·21	0·20	0·22	0·05	0·44	1·90	0·31	0·21	0·42	1·07	0·24	0·05	0·11	1·37	0·96	1·16	0·08	0·12
		Burrisal ...	1·09	0·45	0·66	0·70	0·79	1·50	0·45	0·35	0·20	0·22	0·10	0·34	0·25	0·80	0·32	...	0·10	1·90
		Bhola ...	0·81	0·28	0·05	...	0·72	0·71	0·92	0·27	0·02	0·20	0·05	0·27	0·12	0·19	0·59	0·15	0·51	0·20
		Gournaddi ...	0·07	0·35	0·75	0·82	0·38	0·44	0·36	...	0·27	0·25	0·10	0·45	0·70	0·50	0·36	0·13	0·10	0·08
		Bauphal ...	...	0·31	1·09	...	0·12	1·23	0·23	0·23	1·00	0·49	0·07	0·49	0·08	1·08	0·54	...	...	1·04
	Noakholly ...	Noakholly ...	0·63	...	0·25	0·30	0·85	0·61	0·38	0·93	1·15	0·72	1·03	0·64	1·33	0·84	0·35	0·74	0·22	0·03
		Fenny ...	0·72	...	0·30	0·37	0·87	0·26	1·15	1·85	1·20	0·50	0·65	0·43	0·10	0·27	0·18	0·31	0·63	0·50
		Harishpore ...	...	...	0·15	1·00	0·15	1·50	0·75	2·10	2·00	1·45	1·50	0·50	...	0·20	3·80	0·45	3·40	0·45
		Ramganj ...	0·52	0·15	0·56	0·20	2·60	0·30	0·10	...	1·10	0·62	0·62	0·46	1·50	0·70	0·46	...	0·50	2·40
	Furreedpore ..	Madaripore ...	0·54	0·20	0·11	0·08	1·21	...	...	0·28	...	0·66	0·45	0·40	0·35	0·50	0·04	0·03	0·04	0·08
		Furreedpore..	...	...	0·18	0·48	0·03	0·03	0·38	0·07	0·15	0·12	0·25	0·08	0·98	0·06	0·06	0·45	0·02	...
		Goalundo ...	0·05	...	0·11	0·06	...	0·11	0·42	0·20		1·65	...	0·51	...	0·55	...	0·23	0·65	...
	Dacca ...	Munshigunge	0·35	...	0·25	0·21	2·03	...	3·50	0·32	0·31	0·33	0·45	0·12	0·40	0·50	0·06	...	0·43	...
		Dacca ...	0·08	...	...	0·07	3·72	2·08	0·12	0·28	0·46	1·57	0·40	0·76	0·16	0·57	0·06	0·10	0·46	...
		Narainkunge	0·18	...	0·07	...	3·00	2·46	0·20	0·34	0·28	0·16	1·12	1·02	0·59	0·43	...	...	0·54	0·13
		Manickgunge	...	...	...	0·73	0·37	0·34	0·72	0·18	0·15	0·34	0·21	0·26	0·19	0·10	...	...	1·85	0·32
		Joydebpore ...	0·13	...	...	0·45	0·67	0·61	0·15	0·46	0·88	0·02	0·64	0·64	0·06	0·32	0·07	0·13	1·83	0·08
	Hill Tipperah	Agartola ...	0·72	...	...	3·25	0·28	...	0·60	0·35	0·37	0·14	0·27	0·37	0·10	...	0·19	0·55	0·73	...
	Tipperah ...	Comilla ...	1·16	...	0·20	1·20	1·21	0·21	0·30	0·35	1·05	0·33	1·14	0·30	1·00	0·39	...	0·53	0·62	0·45
		Chandpore ...	0·70	...	0·36	0·26	2·00	...	0·30	...	1·00	...	0·15	...	...	1·05	1·00	0·80		0·60
		Brahmunberia	0·35	...	0·21	0·66	1·62	0·25	0·04	0·40	0·44	...	0·30	...	0·20	0·11	...	0·60	0·80	1·00
		Ramchandra-pore.	1·86	1·08	...	1·32	2·70	3·52	0·86	0·28	0·85	0·43	0·42	0·52	0·48	0·67	0·17	0·18	0·28	0·67
		Nasirnagar ...	...	...	...	0·50	...	0·55	0·10	...	...	...	...	...	...	0·30	0·25	...	0·30	2·90
		Daudkandi ...	...	...	...	1·02	0·70	...	...	...	...	...	...	...	...	...	0·25	...	...	...
		Kasba ...	...	3·17	...	1·15	0·20	4·02	...	...	...	...	...	...	0·02	0·01	0·02	0·02	1·02	0·27
		Laksham ...	2·10	...	2·52	0·10	...	...	2·40	...	1·45	...	2·22		0·75	0·05	...	...	...	1·10
	Mymensingh .	Kishoregunge	...	0·42	0·03	0·89	0·72	...	0·47	0·74	...	0·21	...	0·52	...	...	...	...	2·14	0·41
		Atia (*Tangail*)	...	...	...	0·15	0·73	0·46		...	1·54	0·22	0·13	...	...	0·12	...	...	2·96	...
		Mymensingh	...	...	...	0·32	1·66	1·31	0·60	0·25	0·82	0·22	0·06	0·20	0·82	0·73	0·17	1·44	1·50	2·13
		Jamalpore ...	...	0·23	...	...	0·12	1·02	0·62	0·26	0·63	...	0·55	0·67	0·66	0·02	0·19	0·12	0·17	...
		Netrokona ...	...	...	...	0·25	3·80	0·23	1·03	0·38	0·43	0·44	0·41	0·09	1·01	0·07	...	1·85	4·55	1·33
		Subornakhally	...	...	...	1·63	1·63	1·15	...	...	...		0·04	0·15	...		...	...	...	...
		Durgapore ...	...	...	...	4·30	3·20		1·00	0·61	0·20	0·40	0·40	0·10	...	2·40	...	1·50	3·30	...
		Sherpore Town	...	...	0·08	0·05	0·34	0·82		0·26	...	0·10	0·20	...	...	0·16	...		0·77	0·08
		Dewanganj ...	...	...	...	...	0·90	0·19	...	...	...	0·80	...	...		...	1·50	...	0·40	...
NORTH BENGAL	Pubna ...	Pubna ...		...	...	0·32	...	1·06	0·20	0·06	0·22	0·15	0·61	0·03	0·02	0·67	0·23	0·15	1·22	...
		Serajgunge ...	...	0·02	...	0·12	1·34	1·15	...	0·01	...	0·11	0·12	0·23	0·14	0·29	...	0·01	0·08	0·24
	Bogra ...	Sherpore ...	...	0·47	...		0·79	0·08	0·00	0·05	0·16	0·50	0·67	0·31	0·48	0·13	0·65	0·28	...	
		Nowkhilla ...	...	...	...	0·16	0·24	0·74	0·19	...	0·04	0·24		0·17	0·15	0·32	0·20	0·48	0·21	0·02
		Bogra ...	...	...	...	...	0·07	0·59	0·56	0·21	0·16	0·3·	0·37	0·08	0·67	0·22	...	...	1·45	0·03
		Panchbibi ...	...	...	...	...	...	0·16	...	0·21	0·38	0·90	0·24	0·50	0·19	0·97	...	...	0·22	0·15
	Rajshahye ...	Beauleah ...	...	...	0·31	0·05	0·06	1·68	0·22	0·21	2·59	0·24	1·45	0·14	...	0·04		0·06	1·00	0·82
		Nattore ...	...	...	0·03	...	0·35	2·03	0·35	0·02	0·20	0·66	0·65	0·18	1·65	0·12	0·10	0·21	2·70	0·07
		Naogaon ...	0·10	...	...	...	0·22	...	...	...	1·80	0·31	0·39	2·50	...	0·15	...	0·11	0·13	0·21
		Lalpore ...	...	0·05	0·50		1·28	...	...	...	1·00	0·30	0·32	0·15	0·40	...	0·30	...	0·15	...
		Manda ...	...		...	...	1·07	0·50	1·02	0·53	1·08	0·10	...	...	...	...	...	...	0·80	0·20
	Maldah ...	Maldah ...	...	0·12	...	[illegible]	...	0·02	...	0·94	0·88	0·24	0·05	0·37	0·02	0·12	0·01	...	...	1·55
		Chanchal ...	...	0·19	...	...	0·04	0·07	...	0·26	1·28	0·05	0·15	0·22	·15	0·60	0·11	...	...	1·67
		Gajol ...	...	...	...	...	...	0·07	...	0·20	0·75	0·27	0·19	0·10	1·00	3·80	...	...	...	2·00
		Sibganj ...	...	...	0·22		...	0·50	...	1·98	1·62	0·72	0·55	0·28	0·03	...	0·06	...	0·58	1·91
	Dinagepore ...	Mohadebpore ...	...	...	...	...	0·52	0·10	1·44	0·82	0·29	0·20	0·60	0·31	0·34	...	...	1·73	...	...
		Churamon ...	...	0·21	...	...	...	0·13	...	0·66	0·21	0·07	0·97	0·62	...	3·18	...	...	1·16	1·52
		Raigunge ...	...	...	...	...	...	0·64	...	0·18	1·15	0·85	1·96	...	0·81	0·79	2·80	...	0·30	1·15
		Dinagepore ...	...	...	...	0·18	0·30	0·84	...	2·05	0·19	0·10	0·05	0·78	0·06	0·91	...	0·31	...	0·27
		Baloorghat ...	...	...	...	0·13	0·24	0·17	...	1·23	0·14	0·23	0·45	0·24	2·29	1·82	...	...	...	0·40
		Thakurgaon...	...	0·32	0·31	0·26	0·50	0·16	0·43	0·69	0·23	0·08	0·68	0·08	0·19	1·38	1·63	0·50	...	1·63
	Rungpore ...	Bhawanigunge (*Gyabanda*).	...	...	0·15	0·10	0·65	0·05	0·10	0·20	...	0·32	0·15	0·28	...	0·50	0·47	0·11	0·05	0·41
		Rungpore ...	...	1·09	...	0·12	0·30	0·32	0·36	0·23	0·04	0·07	0·14	0·12	0·11	0·01	0·12	0·40	0·05	1·44
		Kurigram ...	...	3·10	...	0·60	0·27	0·06	0·26	0·03	...	0·03	...	...	...	...	1·45	0·40	2·70	0·54
		Bagdogra (*Nilphamari*).	...	0·75	0·12	0·04	...	0·77	0·51	1·64	1·15	0·25	0·33	0·38	0·04	0·54	0·28	0·18	0·84	0·38
		Ulipore ...	...	...	...	0·23	...	0·48	0·16	...	...	...	...	0·12	...	...	0·43	...	...	0·64
	Julpigoree ...	Julpigoree ...	0·04	...	0·01	1·71	0·52	0·26	4·31	2·61	1·80	1·74	0·06	0·25	2·88	1·25	6·99	1·71	0·80	1·90
		Alipore Doar	...	...	0·01	4·93	0·34	2·05	4·70	2·50	0·70	1·57	...	0·13	0·04	0·25	1·45	1·47	3·10	0·47
		Falacotta ...	...	0·05	...	2·67	3·31	4·11	5·78	2·47	1·20	0·72	0·05	0·56	6·35	0·84	2·88	2·20	1·18	0·88
		Debiganj ...	...	...	0·30	0·19	...	0·43	1·66	1·77	0·48	0·19	0·22	...	0·37	0·05	3·67	0·64	0·12	0·15
		Bhogotpore (Nagrakatta).	0·17	4·24	...	5·25	4·83	0·15	2·19	1·30	0·25	1·99	1·07	0·28	0·85	0·71	0·41	2·66	1·02	3·84
	Cooch Behar...	Dinhatta ...	0·02	...	...	0·61	0·05	0·84	0·45	0·52	0·02	0·48	0·01	...	...	0·18	0·06	0·05	0·29	0·11
		Cooch Behar...	...	...	0·53	2·00	0·55	5·71	1·60	0·55	0·13	0·78	...	0·88	...	0·65	1·10	4·23	0·58	...
		Mickilgunge...	...	...	0·11	1·00	0·53	1·20	1·89	3·85	3·57	0·13	...	0·09	1·93	0·43	1·43	2·00	0·34	0·45
		Matabhanga...	...	...	2·37	0·41	7·57	4·19	2·78	0·05	0·24	0·03	0·02	0·75	0·57	0·81	3·71	1·07	0·04	...
	Darjeeling Hill	Buxa ...	...	2·43	4·05	1·56	0·31	3·32	4·33	3·22	2·04	2·57	0·29	1·55	1·50	2·23	1·60	1·94	1·65	3·38
		Siliguri ...	...	0·37	1·56	2·98	1·80	2·65	1·42	1·67	3·19	5·10	0·15	0·23	4·20	5·80	2·16	1·43	1·14	5·43
		Darjeeling ...	...	0·70	0·15	0·23	1·87	1·15	1·77	3·10	2·74	4·00	2·48	0·28	0·52	3·61	1·15	0·23	0·07	4·41
		Kalimpong ...	...	1·05	...	0·45	0·74	0·64	1·45	2·53	4·24	3·54	1·50	0·37	0·74	8·65	0·68	0·36	1·23	1·46
		Kurseong ...	...	1·92	0·20	0·48	1·02	2·40	1·70	1·30	4·32	4·74	3·50	0·40	1·50	7·84	0·35	0·24	1·35	8·30
NORTH BEHAR	Purneah ...	Kissengunge ...	...	...	0·27	...	...	...	0·94	4·21	0·75	0·72	0·20	...	0·12	0·75	0·94	3·15	1·56	0·95
		Arrareah ...	...	0·32	0·70	...	...	...	1·66	2·07	1·83	0·76	0·33	...	0·38	1·72	0·78	3·28	0·54	1·23
		Purneah ...	...	...	0·11	0·01	0·01	...	0·77	2·50	2·19	0·09	0·08	0·01	2·35	0·07	1·39	0·05	0·49	2·18
		Gondwara ...	...	...	...	...	...	...	1·28	...	1·58	...	...	...	...	...	...	...	...	3·00
		Balarampore	...	...	...	...	...	0·40	1·00	0·87	1·20	1·00	1·10	0·10	...	2·50	2·70	0·37	...	0·60
		Matiari ...	...	...	...	...	...	0·40	1·95	0·[illegible]	1·20	0·65	...	...	0·17	...	0·61	...	2·20	0·47
		Kaliaganj ...	...	...	...	...	0·29	...	0·48	3·40	1·61	0·10	0·13	...	0·60	3·27	...	0·27	0·33	2·50
	North Bhagulpore.	Maddapore ...	...	...	...	...	...	...	...	5·20	...	1·25	0·36	...	...	1·80	...	...	2·25	1·16
		Soopool ...	...	0·50	...	...	...	...	0·44	3·75	1·44	0·61	...	...	...	0·88	0·15	0·37	0·32	1·00
		Protabganj ...	0·20	0·60	0·03	0·08	...	...	1·82	...	0·92	0·32	...	...	0·50	0·27	...	2·28	2·12	...

23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st July 1890.	Average rainfall from 1st January up to 31st July.	District.	Station.	Meteorological division.
1·00	2·60	0·65	0·76	0·60	4·20	0·45	0·97	0·27	23	24·7	21·98	22·13	4·20	49·91	58·29	Patuakhally	Backergunge.	EAST BENGAL—*concld.*
1·50	1·39	0·04	0·18	0·45	1·55	0·07	2·55	0·22	30	22·7	18·57	16·46	2·53	44·98	45·47	Perozepore.		
1·05	1·71	0·31	...	0·23	1·30	...	0·60	0·30	27	26·9	18·27	16·78	1·90	49·22	48·53	Burrisal.		
1·28	1·54	0·01	0·95	0·67	1·68	0·07	2·19	0·16	29	26·4	19·01	18·46	2·19	45·65	52·98	Bhola.		
0·35	0·48	0·30	0·75	0·50	0·15	0·50	...	0·38	29	?	11·39	?	1·28	35·67	?	*Gournaddi.*		
3·16	1·06	0·16	1·53	0·41	1·58	0·28	1·72	0·35	25	?	21·21	?	3·16	43·04	?	*Bauphal.*		
1·71	1·74	0·06	0·52	0·51	2·62	1·23	2·47	0·50	30	25·8	24·91	21·36	2·62	61·67	63·04	Noakholly ...	Noakholly.	
2·85	3·00	0·55	2·28	1·70	2·65	0·43	0·30	...	28	23·6	26·06	23·64	3·00	69·38	71·11	Fenny.		
2·50	3·10	2·00	1·50	2·50	4·10	3·50	1·50	0·10	28	?	46·20	?	4·10	89·44	?	*Harishpore.*		
1·03	0·80	0·10	0·50	0·26	0·62	...	1·00	0·42	28	?	19·81	?	2·60	53·63	?	*Ramganj.*		
0·70	0·52	0·09	...	...	2·80	...	0·48	0·47	22	20·0	11·01	12·59	2·80	33·42	42·53	Madaripore ...	Furreedpore.	
1·02	...	0·36	0·55	1·64	1·03	0·13	0·22	0·12	27	21·2	11·02	12·67	1·64	33·12	42·43	Furreedpore.		
0·05	1·38	0·15	0·35	...	0·85	2·61	0·15	0·16	20	19·5	11·40	11·89	2·61	35·86	38·27	Goalundo.		
0·80	0·44	0·27	...	0·22	0·45	1·00	0·26	...	25	19·9	13·77	16·12	3·50	47·57	51·99	Munshigunge.	Dacca.	
0·05	0·08	0·33	0·11	0·77	0·18	1·08	0·30	0·04	28	22·1	15·72	12·96	3·72	51·87	44·74	Dacca.		
0·81	0·49	0·18	0·83	0·54	0·63	1·27	1·34	0·05	27	21·4	18·24	15·69	3·00	51·22	47·54	Narainkunge.		
0·06	2·00	0·18	0·16	0·10	1·70	0·32	0·27	0·38	26	19·6	11·82	12·11	2·00	43·21	37·94	Manickgunge.		
1·45	0·20	1·10	0·52	1·95	0·22	0·82	0·21	0·12	29	?	14·26	?	1·95	50·86	?	*Joydebpore.*		
0·57	0·98	0·45	2·32	1·50	1·35	0·35	0·42	0·18	24	18·0	16·64	11·63	3·25	56·01	48·93	Agartola ...	Hill Tipperah.	
1·60	1·22	0·25	0·94	1·19	1·85	0·76	1·49	0·04	29	24·1	21·17	17·90	1·85	49·12	57·70	Comilla ...	Tipperah.	
0·50	...	0·80	...	...	2·00	0·70	...	...	16	22·4	12·82	15·11	2·00	44·96	49·53	Chandpore.		
0·53	0·43	0·16	2·04	2·15	0·70	0·38	1·40	0·10	27	21·8	16·55	11·17	2·15	49·12	49·53	Brahmunberia.		
0·90	0·48	0·72	0·93	1·11	0·72	2·11	3·25	0·13	30	?	27·55	?	3·25	55·35	?	*Ramchandra-pore.*		
...	0·10	0·70	1·20	0·99	0·20	...	...	...	13	?	8·19	?	2·90	54·81	?	*Nasirnagar.*		
0·93	0·52	0·29	0·16	0·26	...	...	0·45	...	10	?	5·29	?	1·02	23·45	?	*Daudkandi.*		
1·00	2·30	0·05	2·02	2·07	0·30	...	0·20	...	18	?	17·95	?	3·17	57·58	?	*Kasba.*		
3·10	2·30	...	...	2·25	0·15	1·75	1·60	...	16	?	25·44	?	3·10	60·95	?	*Laksham.*		
...	0·33	0·44	1·10	1·30	1·50	1·25	...	0·40	20	20·3	13·81	12·93	2·14	52·17	52·08	Kishoregunge	Mymensingh.	
0·39	0·67	0·31	...	...	1·21	0·79	...	0·15	16	16·1	11·10	11·17	2·96	45·97	37·30	Atia (*Tangail*).		
0·05	0·63	0·45	0·64	1·82	1·57	0·50	0·83	0·32	28	22·1	19·57	16·09	2·13	59·93	57·91	Mymensingh.		
...	1·67	0·67	2·60	0·54	3·06	0·53	1·59	0·11	23	18·5	16·15	12·47	3·05	58·20	43·05	Jamalpore.		
0·21	0·62	1·09	0·44	1·30	0·42	0·90	1·95	1·39	26	22·3	24·77	16·86	3·80	68·61	57·28	Netrokona.		
...	0·10	0·40	...	0·14			0·47	...		?		?	5·20		?	*Subornakhally.*		
0·33	1·91	1·41	2·85	0·44	0·50	0·90	2·00	1·11	22	?	29·92	?	4·30	82·31	?	*Durgapore.*		
0·97	0·70	0·46	2·91	1·22	2·04	0·66	1·33	...	20	?	13·19	?	2·91	52·77	?	*Sherepore Town*		
0·90	0·90	2·36	...	4·30	1·05	1·20	0·31	0·70	14	?	15·78	?	4·30	51·45	?	*Dewanganj.*		
0·71	0·33	0·15		0·40	0·52	0·93	...	0·03	24	20·4	8·77	10·71	1·[illegible]2	28·35	35·46	Pubna ...	Pubna ...	NORTH BENGAL.
0·18	1·02	0·20	1·24	2·89	0·43	0·53	0·11	0·11	26	15·8	12·44	10·95	2·89	42·42	35·45	Serajgunge.		
1·42	1·05	1·56	1·96	0·38	0·43	1·69	0·53	0·05	25	17·0	14·87	12·71	1·96	38·88	37·16	Sherpore .	Bogra.	
0·20	2·[illegible]	0·15	3·30	1·10	0·81	0·06	0·42	0·81	24	19·7	15·04	11·17	3·30	44·08	36·31	Nowkhilla.		
0·63	1·21	0·98	3·33	0·30	0·31	0·80	0·42	0·03	24	18·9	13·83	15·83	3·33	37·20	45·[illegible]	Bogra.		
0·28	0·78	1·62	0·59	1·20	0·50	0·14	0·62		19	14·6	10·13	12·40	1·62	44·22	34·42	Panchbibi.		
0·08	1·55	0·47	2·55	2·83	0·14	0·68	0·72	0·23	27	20·0	22·67	11·40	2·83	46·88	31·73	Beauleah .	Rajshahye	
0·58	0·87	0·93	2·70	2·06	0·17	0·70	...	0·06	26	14·9	18·23	12·20	2·70	55·10	33·56	Nattore.		
0·68	1·85	1·80	0·84	...	0·60	...	1·18	0·69	20	17·7	16·30	11·25	2·50	39·55	33·26	*Naogaon.*		
0·55	0·55	2·18	0·40	1·33	1·65	...	0·35	1·00	20	?	13·16	?	2·18	30·61	?	*Lalpore.*		
1·20	1·20	0·60	0·90	...	0·90	0·25	0·50	0·20	20	?	12·20	?	1·20	21·89	?	*Manda.*		
0·22	0·60	0·45	...	1·74	0·08	0·70	0·32	0·70	22	19·4	9·91	10·74	1·74	26·92	28·01	Maldah ..	Maldah.	
...	0·02	1·10	0·03	1·10	0·11	3·00	1·19	0·02	23	22·2	12·65	12·27	3·00	28·45	31·35	Chanchal.		
...	0·90	0·80	0·25	1·00	0·25	1·20	1·56		19	?	17·00	?	3·[illegible]	31·55	?	*Gajol.*		
0·06	1·70	0·09	1·40	0·71	0·05	...	0·28	0·59	22	?	14·96	?	1·98	55·82	?	*Sibganj.*		
1·85	1·15	0·57	2·83	0·10	0·15	0·78	0·14	0·28	23	17·5	16·08	11·01	2·83	37·74	32·62	Mohadebpore .	Dinagopore.	
...	...	2·27	...	3·81	0·27	0·18	0·54	...	17	18·3	16·64	12·21	3·81	40·13	31·47	Churamon.		
0·11	2·18	0·58	...	2·85	0·21	0·26	1·24	...	19	20·3	10·23	12·60	2·85	41·31	35·63	Raigunge.		
	0·64	4·70	0·12	1·32	0·67	2·84	0·07	0·07	22	19·9	[illegible]	14·90	1·70	47·18	13·67	Dinagepore.		
0·15	0·95	0·34	0·50	1·84	0·43	1·08	1·38	...	20	19·4	14·26	10·50	2·20	37·99	32·21	Baloorghat.		
...	1·16	2·85	...	0·64	0·80	...	...	0·53	23	?	15·50	?	2·85	57·40	?	*Thakurgaon*		
0·15	0·52	1·50	1·85	1·99	1·60	0·37	0·20	0·3·	26	12·9	16·37	11·91	1·60	5[illegible]·84	41·75	Bhowanigunge (*Gyabanda*).	Rungpore.	
0·45	0·35	0·48	1·14	2·58	2·43	1·04	0·12	0·02	25	19·4	13·73	15·77	2·58	50·66	52·52	Rungpore.		
0·04	0·31	1·61	1·11	1·31	1·15	0·05	0·40	0·10	21	13·3	12·92	13·37	2·70	57·04	58·50	Kurigram.		
0·04	1·48	1·98	0·85	0·59	0·12	0·95	...	0·18	25	16·5	11·30	13·58	1·98	58·12	50·41	Bagdogra. (*Nilphamari.*)		
...	0·50	0·64	1·52	1·85	2·53	...	...	...	12	?	9·28	?	2·53	51·67	?	*Ulipore.*		
0·13	0·20	0·81	0·46	1·74	1·47	0·15	0·91	0·02	30	21·6	41·46	26·06	6·99	96·17	73·35	Julpigoree ...	Julpigoree.	
0·08	0·[illegible]0	2·35	1·12	2·49	2·30	0·81	0·40	0·57	27	?	38·44	?	4·93	109·17	?	*Alipore Doar.*		
0·23	0·18	1·82	3·22	3·15	2·17		0·25	...	25	?	40·99	?	5·78	98·57	?	*Falacotta.*		
...	0·11	1·30	0·18	0·09	0·96	2·48	0·60	0·07	21	?	16·54	?	3·67	62·52	?	*Debiganj.*		
3·64	1·45	1·60	0·71	1·05	2·19	3·11	1·39	0·71	30	?	56·84	?	6·71	103·65	?	*Bhogotpore (Nagrakatta.)*		
...	1·04	0·34	1·93	5·26	1·69	1·18	1·56	0·41	24	20·1	17·32	16·19	5·26	72·32	68·96	Dinhatta	Cooch Behar	
0·73	1·34	0·45	0·69	3·37	1·34	0·36	0·20	0·39	24	19·7	20·08	22·[illegible]5	5·71	95·18	81·65	Cooch Behar...		
0·31	0·38	1·92	1·21	1·55	0·22	0·04	0·15	...	26	20·6	25·75	21·24	4·85	88·09	68·40	Mickilgunge.		
0·68	5·27	2·54	1·66	1·87	1·13	0·48	0·13	1·18	27	22·6	40·12	21·18	7·57	101·92	73·88	Matabhanga.		
1·05	0·34	4·87	1·17	4·10	1·54	5·16	1·42	0·81	30	25·2	60·55	47·68	5·46	123·04	126·79	Buxa ...	Darjeeling.	
1·07	1·01	3·01	8·80	5·28	2·85	1·54	2·10	0·20	30	23·9	69·64	32·86	8·80	116·48	74·45	Siliguri.		
3·10	1·01	1·90	4·63	3·66	4·01	2·86	2·98	1·81	30	27·7	58·63	30·36	4·63	101·60	69·99	Darjeeling.		
4·54	0·61	2·60	4·38	1·74	2·04	1·00	1·20	0·90	29	27·0	52·06	20·77	8·65	81·54	57·97	Kalimpong.		
4·42	0·95	2·55	4·41	2·60	4·70	1·83	1·18	1·40	30	?	71·41	?	8·30	126·66	?	Kurseong.		
0·35	0·33	0·70	0·26	0·77	2·61	0·22	0·12	0·05	24	20·3	21·52	16·19	4·21	53·11	41·89	Kissengunge ...	Purneah ...	NORTH BEHAR
0·52	1·45	0·36	0·29	0·36	2·18		0·69	0·20	24	17·4	24·[illegible]8	16·18	5·28	43·34	38·10	Arrareah.		
0·13	1·16	·0·89	0·04	1·44	0·15	2·13	0·38	0·09	27	20·5	19·59	11·13	2·50	44·81	32·30	Purneah.		
	2·26	...	4·47	...	2·[illegible]6	...	...	4·20	10[illegible]	?	21·07	?	4·47	32·49	?	*Gondwara.*		
0·18	2·00	2·70	...	2·60	0·32	0·70	1·33	0·10	22	?	28·14	?	2·70	48·59	?	*Balarampore.*		
...	...	1·05	1·40	0·42	0·90	0·14	...	0·30	10	?	14·8[illegible]	?	2·50	25·93	?	*Matiari.*		
0·21	0·31	2·60	1·80	2·69	1·48	0·20	1·88	0·25	24	?	2[illegible]·12	?	3·10	64·99	?	*Kaliaganj.*		
0·48	0·60	4·25	0·90	2·55		1·04	1·66	...	13	15·4	23·50	12·01	5·20	41·27	27·10	Maddapore ..	North Bhagulpore	
0·20	0·23	3·18	0·28	4·82	8·41	1·81	1·17	0·54	22	16·6	26·31	11·34	4·52	37·98	26·13	Soopool.		
1·80	1·25	0·37	0·21	0·91	0·42	0·53	...	...	24	?	16·14	?	2·28	29·13	?	*Protabganj.*		

Table of Rainfall recorded at Statio

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
NORTH BEHAR—concld.	Durbhunga ...	Tajpore ...	0·05	...	0·46	...	...	...	0·03	1·08	0·04	1·02	0·04	...	0·32	0·46	0·05	...	0·48	0·88	1·08
		Durbhunga ...	...	...	...	0·18	...	0·03	0·07	2·24	2·04	0·48	0·05	...	0·05	0·06	0·11	0·42	0·38	5·82	1·69
		Madhubani ...	0·64	...	...	...	0·06	...	...	1·10	0·27	0·17	...	...	0·05	0·12	...	0·32	0·59	4·12	1·41
		Bahera ...	...	...	...	...	...	...	...	3·20	0·10	0·53	0·05	...	0·32	0·40	0·80	0·15	0·06	2·25	0·22
		Roshera ...	0·10	...	...	...	...	...	0·20	1·50	...	0·20	...	0·65	0·10	...	0·05	0·15	1·00	0·60	...
	Mozufferpore	Sitamarhi ...	...	...	...	...	0·18	0·08	...	2·28	0·21	0·08	0·04	[illegible]	0·04	0·08	...	0·57	1·49	2·92	1·18
		Mozufferpore ...	...	...	...	...	...	0·12	0·05	0·38	2·04	1·12	0·05	0·67	0·04	[illegible]	0·12	...	0·12	4·72	1·44
		Hajipore ...	...	...	...	...	...	...	0·30	1·49	1·73	2·93	0·22	0·10	0·36	0·20	...	...	...	2·65	0·86
		Paru ...	...	...	...	...	...	...	1·13	1·02	0·52	3·96	0·11	...	0·11	...	...	0·51	0·52	1·28	0·95
		Mahua ...	0·05	...	...	...	...	1·17	2·55	0·08	1·85	0·34	0·10	...	0·45	...	...	...	2·75	0·65	...
		Sinhar ...	...	...	...	...	...	...	0·80	1·30	...	0·80	0·03	...	0·25	0·20	...	...	1·10	2·80	0·98
		Pupri ...	...	...	...	...	0·24	...	...	3·64	...	...	0·24	...	0·14	...	...	0·07	1·17	3·40	2·70
	Chumparun ..	Motihari ...	...	0·05	...	...	0·19	...	0·03	2·46	0·07	2·10	0·14	...	0·13	...	...	...	2·43	2·82	0·90
		Bettiah ...	...	...	...	...	...	1·70	0·45	1·09	0·80	2·05	...	...	...	0·34	0·03	0·77	0·80	1·32	1·80
		Bagaha ...	0·32	...	0·06	...	...	2·59	0·50	1·24	2·45	2·22	0·01	...	...	0·02	...	0·72	1·97	1·30	0·52
		Burhurwa ..	0·05	...	...	...	...	...	...	0·01	0·24	1·04	0·23	...	0·08	0·15	...	0·71	0·30	0·74	0·31
	Sarun ..	Gopalgunge ..	0·50	...	...	...	...	...	0·65	...	1·32	...	...	...	...	0·10	...	0·50	0·30	0·74	0·15
		Sewan ...	...	...	...	...	...	...	3·81	0·22	0·21	0·38	0·12	0·21	...	0·29	0·20	0·24	0·84	0·16	0·48
		Chupra ...	...	...	...	...	...	0·03	0·41	0·06	0·32	0·13	...	0·64	...	...	0·09	0·15	2·08	0·88	0·30
SOUTH BEHAR	Shahabad ..	Buxar ...	0·02	0·02	...	...	...	0·01	0·05	0·18	0·02	0·69	1·02	2·71	0·31	0·04	...	2·02	...	2·10	0·84
		Dehree ...	0·02	0·22	...	...	...	0·60	0·10	0·12	0·17	0·38	0·48	0·07	...	0·21	...	0·05	0·03	0·11	2·90
		Bhuboah ...	...	0·30	...	...	...	0·45	0·70	0·25	...	1·80	0·30	...	...	...	0·30	...	0·25	2·50	0·40
		Sasseram ...	...	0·34	...	...	0·07	0·83	0·12	...	0·05	0·27	1·25	0·76	...	...	...	...	...	...	3·32
		Arrah ...	0·08	...	0·02	...	...	...	3·15	2·00	0·34	0·47	0·20	...	1·45	...	...	0·04	...	2·08	0·48
		Mohaniah ...	...	...	...	...	...	0·50	0·80	...	0·50	0·80	...	...	...	...	...	0·09	0·32	1·90	...
	Gya ..	Aurungabad...	...	0·53	...	...	...	0·84	...	0·50	1·10	1·05	0·20	0·11	2·43	...	...	0·27	...	0·43	1·41
		Gya ...	0·28	0·48	...	...	...	0·55	2·82	4·30	0·44	0·34	1·24	0·22	...	0·33	0·07	...	...	0·52	0·17
		Nowadah ...	...	...	...	...	...	1·38	4·36	0·54	1·72	0·29	1·28	...	0·43	0·07	0·10	...	1·17	0·24	0·42
		Jehanabad ...	0·02	...	...	...	...	0·12	2·63	3·03	1·20	0·13	...	0·12	0·08	...	...	...	...	0·35	0·06
		Arwal ...	...	...	...	0·50	...	1·40	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudnagar ..	0·50	0·50	...	...	...	0·50	0·10	0·20	0·10	0·20	0·40	0·12	0·14	0·20	0·60	0·40	0·70	1·22	0·10
		Sheerghati ..	1·25	0·16	...	...	...	0·90	...	0·29	0·40	...	0·44	0·12	...	0·05	0·32	...	...	0·12	1·32
		Rajauli ...	...	...	...	...	...	0·08	0·23	0·78	1·76	0·25	0·17	1·00	0·11	0·44	0·10	...	0·08	0·10	1·02
		Pakri Barawan.	0·65	...	...	...	...	...	...	...	...	3·25	0·40	0·80	...	0·60	1·50	...	...	0·85	0·27
	Patna ..	Patna ...	0·08	0·16	...	...	...	0·05	0·08	0·38	1·66	0·61	0·03	0·65	1·70	0·02	...	0·08	...	2·86	0·62
		Dinapore ...	...	...	...	...	...	...	1·10	...	0·35	0·46	[illegible]	0·37	...	...	...	0·10	1·25	1·05	0·61
		Behar ...	0·03	0·21	...	...	...	...	0·20	1·00	0·18	1·71	0·09	...	...	1·19	0·10	...	...	0·80	0·74
		Barrh ...	...	...	...	...	...	...	0·80	0·20	2·00	...	...	...	0·24	0·40	...	0·10	0·20	1·00	...
		Bukram ...	...	0·12	...	...	...	...	0·45	4·12	0·32	0·99	0·47	0·15	0·73	0·95	...	1·10	...	3·03	0·63
		Hilsa ...	0·02	...	...	...	...	0·46	0·55	0·72	0·70	0·46	0·09	1·00	0·10	...	...	1·08	...	...	0·50
	Monghyr ..	Begooserai ...	...	...	0·21	...	...	0·01	...	0·24	0·20	...	0·25	0·06	...	0·16	0·57	...	...	1·29	0·11
		Monghyr ...	...	...	0·35	...	...	0·05	...	0·03	0·29	0·07	0·08	...	0·13	0·12	1·73	...	...	3·77	0·55
		Jumui ...	0·44	...	...	...	...	...	...	...	0·30	0·64	0·16	0·35	0·53	2·64	0·22	...	0·29	3·11	0·72
		Gogri ...	...	0·67	...	...	...	...	...	...	1·37	...	...	0·06	...	...	2·27	...	...	5·87	...
		Sheikpura ...	...	...	...	...	...	...	...	...	1·20	0·10	...	...	...	2·70	...	...	...	...	1·51
	South Bhagulpore.	Bhagulpore ..	0·16	...	...	...	...	0·12	0·34	1·00	0·70	1·21	0·13	1·42	0·48	1·62	...	0·32	...	0·88	1·12
		Banka ...	...	...	0·02	...	...	...	0·45	0·08	...	0·38	0·56	0·06	...	0·10	0·18	...	...	1·64	1·57
		Kolgong ...	0·10	0·30	...	...	0·60	0·50	7·50	1·42	0·77	0·51	...	0·10	1·20	...	0·10	...	1·85	0·25	0·12
		Bangaon ...	...	...	0·28	...	...	...	...	2·38	...	0·52	...	...	1·00	...	...	...	2·07	0·86	...
	Sonthal Pergunnahs.	Rajmehal ...	...	...	...	...	0·05	...	...	2·37	...	0·05	0·20	0·75	...	...	0·12	...	...	1·87	0·91
		Godda ...	...	0·05	0·08	...	...	0·21	0·59	0·32	0·29	2·10	0·13	0·14	0·16	1·78	0·48	...	1·96	1·65	0·13
		Pakour ...	...	0·11	0·10	...	...	0·27	0·08	1·30	0·04	0·24	0·13	0·86	0·03	2·05	0·01	...	3·91	0·74	0·26
		Nya Doomka ...	...	0·02	0·02	0·07	0·22	0·18	0·09	0·08	0·22	1·53	3·01	0·35	...	0·90	...	...	0·61	0·41	1·92
		Deoghur ...	...	0·03	...	...	0·39	0·07	...	0·48	0·78	0·28	0·23	0·72	...	0·21	...	...	2·55	3·15	0·42
		Jamtara ...	...	0·39	0·09	...	0·15	0·19	...	0·36	1·26	0·44	1·17	0·13	...	0·14	0·16	...	...	0·64	...
		Mohagama ...	...	...	...	1·15	...	...	...	...	...	0·85	1·2	0·65	...	...	...	0·15	...	2·12	...
		Nanihat ...	...	...	...	...	...	...	...	0·07	0·25	0·40	0·63	...	0·21	0·85	...	...	1·66	1·05	...
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (Giridi).	0·27	0·21	0·44	...	...	0·07	0·03	1·95	0·05	0·56	0·03	1·10	0·38	0·02	...	...	0·98	0·07	0·15
		Hazaribagh ...	1·16	1·11	...	...	...	0·90	1·33	0·07	0·02	0·33	0·69	0·73	0·02	0·52	...	...	0·05	2·22	0·27
		Semtagurah ...	0·15	0·22	0·15	0·06	0·05	0·46	0·14	...	0·19	1·00	0·10	0·12	2·22	...	...	...	2·86	0·10	0·44
		Mahudi Hills..	0·34	0·92	...	...	...	1·14	0·21	1·66	0·02	0·23	0·25	0·25	0·50	0·14	0·30	0·05	3·71	0·87	...
		Jhoomrah Hills	0·90	0·10	...	...	...	0·80	...	...	0·10	0·70	0·28	0·70	0·70	...	...	1·10	1·10	1·30	0·70
		Barhi ...	0·55	0·06	...	...	...	0·75	0·46	0·10	...	1·20	0·26	2·35	...	1·00	0·10	0·70	...	1·00	0·22
		Chatra ...	0·03	0·80	...	...	...	0·50	1·30	0·50	...	0·82	1·00	0·45	...	0·40	0·80	...	0·75	0·40	...
		Karagdeha ...	...	...	0·10	...	...	...	0·70	0·60	0·35	0·29	0·19	2·57	0·20	0·09	...	...	0·47	0·41	0·30
		Ramghar ...	1·50	0·30	...	...	...	...	...	...	0·50	1·00	1·00	...	...	...	...	...	...	0·90	...
	Lohardugga...	Lohardugga ...	0·06	0·21	...	...	...	...	0·78	0·12	...	3·21	0·25	...	0·55	0·35	...	0·12	0·21	0·07	0·78
		Ranchi ...	0·11	0·74	0·15	...	0·10	0·15	0·04	0·11	0·24	0·40	0·38	...	...	...	...	0·22	0·05	0·25	0·27
		Palamow ...	...	0·14	...	...	...	0·37	1·70	0·17	0·12	0·25	...	...	...	0·18	0·55	...	...	0·68	4·44
		Silli ...	...	...	...	...	...	...	0·90	...	...	1·60	...	...	...	...	...	...	0·60	1·40	1·06
		Balumat ...	0·12	0·80	...	...	...	2·10	2·50	0·03	1·61	1·00	...	0·04	0·03	0·07	...	...	...	0·12	0·02
		Hosenabad ...	...	...	...	...	...	...	0·30	1·55	...	0·51	0·95	...	...	...	...	...	...	...	0·80
		Garwah ...	...	...	...	...	0·23	0·24	0·30	...	0·70	0·30	0·09	0·21	...	...	...	...	0·22	0·80	0·36
	Singbhoom	Chyebassa ...	0·62	1·55	...	...	...	0·15	2·42	...	...	0·11	0·12	...	0·08	0·11	...	...	...	...	0·81
		Chakradharpore.	...	0·15	...	...	...	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ghatsila ...	1·30	0·38	...	...	2·60	1·50	...	...	0·05	1·75	...	0·05	0·12	...	...	...	...	0·10	...
		Baharagura ...	0·74	0·56	...	...	0·32	0·60	0·55	...	...	...	...	...	...	...	0·39	...	...	...	...
	Manbhoom ..	Purulia ...	0·63	1·36	0·86	...	...	0·40	0·04	0·17	0·11	0·54	0·08	...	...	0·32	3·11	...	...	0·15	0·16
		Gobindpore ..	...	0·20	0·75	...	...	0·17	0·02	0·61	0·07	0·60	0·40	...	...	0·11	0·17	...	0·41	0·19	0·14
		Raghunathpore	0·20	0·46	0·70	...	0·14	0·45	0·05	0·03	0·33	1·35	0·19	...	...	...	0·22	...	...	4·14	2·48
		Barrabhoom ..	0·15	0·48	...	...	1·05	0·45	0·60	0·10	0·90	1·60	0·20	...	...	1·20	1·00	...	0·62	...	0·22
		Jhalda ...	0·32	...	...	...	0·30	0·92	0·51	...	...	0·71	0·09	...	...	...	0·52	...	0·19	1·71	0·87
		Chas ...	0·12	0·38	0·50	...	...	0·04	0·03	0·57	...	0·39	0·23	...	...	...	...	0·26	0·05	0·04	0·20

l for the month of July 1890—concluded.

Meteorological division.	District.	Station.	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st July 1890.	Average rainfall from 1st January up to 31st July.
NORTH BEHAR—concld.	Durbhunga ...	Tajpore ...	0·02	1·04	0·85	2·04	2·06	1·75	0·05	2·03	0·54	0·05	24	14·1	21·99	12·31	6·88	32·40	23·61
		Durbhunga.	0·21	0·33	...	2·11	0·87	1·30	1·26	0·18	2·20	...	22	14·9	22·58	12·02	5·32	36·54	24·41
		Madhubani.	...	...	0·32	3·15	1·50	3·51	1·78	1·39	1·36	0·58	19	13·9	24·24	10·84	4·12	41·02	24·90
		Bahera.	0·30	0·20	0·10	2·40	0·70	2·13	1·17	1·14	3·20	0·36	22	?	20·02	?	3·20	35·53	?
		Roshera.	1·95	1·85	1·75	0·30	2·05	0·35	1·25	0·77	0·12	0·10	21	?	15·86	?	2·05	28·21	?
	Mozufferpore.	Sitamarhi	.....	0·37	0·07	2·02	1·67	1·53	0·73	0·94	1·30	0·32	22	11·7	18·16	10·87	2·92	30·32	24·01
		Mozufferpore.	0·09	2·07	0·22	4·00	1·65	1·77	0·87	1·24	0·42	0·42	22	15·7	8·02	10·94	4·72	33·78	22·48
		Hajipore.	...	0·12	0·41	0·42	1·11	1·18	0·19	2·95	0·52	1·57	20	16·8	19·44	12·21	2·95	31·07	22·46
		Paru.	...	0·60	0·90	2·35	3·50	2·30	0·35	1·50	0·30	0·14	19	?	22·18	?	3·96	33·65	?
		Mahua.	...	...	0·97	0·76	2·00	2·32	1·12		0·45		17	?	17·73	?	2·75	31·09	?
		Sinhar.	...	...	...	2·50	1·10	2·30	0·20	0·12	2·10	0·20	16	?	16·88	?	2·80	31·88	?
		Pupri.	.....	0·40	...	1·00	1·72	2·00	1·12	0·74	0·76	0·17	16	?	20·11	?	3·64	34·44	?
	Chumparun.	Motihari	...	...	...	2·86	3·59	2·67	0·54	0·17	2·24	0·23	19	13·1	24·30	10·96	3·59	43·61	23·55
		Bettiah.	0·03	0·20	0·32	3·53	1·86	3·21	0·21	0·60	0·17	0·85	22	13·5	22·46	12·99	3·53	38·26	26·21
		Bagaha.	0·02	0·16	1·02	0·21	3·56	5·91	0·21	2·56	1·96	0·25	23	?	29·87	?	5·91	49·55	?
		Burhurwa.	.....	0·58	0·10	2·38	4·49	1·43	0·18	0·03	2·25	0·69	20	?	20·49	?	4·49	38·06	?
	Sarun.	Gopalgunge ..	...	0·40	...	1·74	1·24	1·34	1·70	3·60	0·27	0·84	16	15·3	15·39	12·75	3·60	26·13	23·54
		Sewan	0·51	1·81	0·40	1·51	1·13	0·64	2·29	0·13	0·46	0·58	23	16·6	17·75	11·68	3·81	32·38	21·87
		Chuprah.	0·03	0·93	0·40	1·55	1·08	0·16	3·60	3·39	0·78	0·04	23	15·8	18·70	10·85	3·60	31·83	20·30
SOUTH BEHAR.	Shahabad ...	Buxar	...	1·30	0·90	0·15	0·02	0·17	0·46	1·20	0·25	0·11	25	17·3	14·74	11·07	2·74	26·37	18·36
		Dehree.	1·70	0·40	1·50	0·51	0·52	1·20	0·05	0·22	0·40	0·23	[illegible]	18·0	2·93	11·25	2·90	23·65	18·67
		Bhuboah.	1·40	0·80	0·40	0·15	1·28	0·10	0·35	0·26	0·06	...	20	15·0	12·55	11·57	2·50	22·76	20·42
		Sasseram.	0·75	1·60	1·80	0·25		1·03	0·05	0·58	0·42	0·11	19	17·9	13·55	11·58	3·32	24·87	19·15
		Arrah.		0·05	4·50	2·35	1·25	0·48	0·20	0·24	0·10	0·80	22	17·8	28·44	12·62	7·10	42·05	22·96
		Mohaniah.	2·00	1·10	...	...	0·90	0·40	1·10	...	1·40	1·35	14	?	13·16	?	2·00	20·30	?
	Gya.	Aurungabad ..	0·58	1·00	1·27	0·05	...	1·30	0·65	0·16	0·05	0·13	20	15·4	14·01	12·39	2·43	24·14	20·79
		Gya.	0·06	2·98	1·04	1·08		1·38	1·28	0·52	0·06	0·35	23	19·4	21·57	11·81	4·36	33·97	21·16
		Nowadah.	1·13	0·31	0·21		1·44	0·09	1·63	0·19	0·19	0·69	23	14·8	18·05	11·87	4·36	36·03	21·07
		Jehanabad.	..	1·41	1·41	0·82	0·08	0·41	0·57	0·30	0·03	0·51	21	14·5	16·75	[illegible]	3·03	34·12	20·41
		Arwal.		...	...	2·50		3·20	0·50	2·50		4·10	8	?	18·06	?	4·10	25·03	?
		Daudnagar.	0·50	0·25	0·85	0·10	1·01	...	0·40	0·70	1·00	0·90	25	?	11·39	?	1·22	16·00	?
		Sheerghati.	...	0·35		0·35		1·00	0·80	...	0·35	0·50	17	?	9·48	?	1·32	16·67	?
		Rajauli.	0·23	0·27	1·40	0·30	1·00	1·20		...	0·33	...	23	?	13·37	?	1·76	26·13	?
		Pakri Barawan.	.....	...	0·80	0·30	..	2·80	0·10	0·52	0·33	...	16	?	14·00	?	3·25	25·48	?
	Patna.	Patna	..	0·35	0·57	0·08	0·88	1·80	0·11	2·78	0·12	1·74	24	18·1	17·41	10·60	2·86	28·71	20·83
		Dinapore.	0·28	0·38	1·10	0·70	1·90	1·85	0·10	0·81	0·61	0·05	21	16·2	14·85	11·71	1·95	25·70	21·06
		Behar.		0·96	1·03	1·60	0·77	3·26	0·12	0·86	0·12	0·92	22	18·4	15·56	13·04	3·26	28·18	23·12
		Barrh.	0·50	0·30	0·80	0·50	0·70	3·50	0·12	1·20	0·65	...	18	15·2	13·76	12·74	3·50	23·14	21·29
		Bukram.	..	1·65	3·11	[illegible]	[illegible]	0·32	0·22	0·07	0·05	0·63	22	?	22·18	?	4·12	37·33	?
		Hilsa.	.....	0·19	0·79	[illegible]	0·18	...		0·08	0·57	0·65	21	?	13·70	?	2·51	30·80	?
	Monghyr.	Begooserai ..	0·05	0·13	[illegible]	2·46	0·32	3·27	0·58	1·29	1·10		21	16·8	11·08	11·39	3·27	27·33	21·44
		Monghyr.	0·60	0·15	2·00	0·52	0·84	5·60	0·10	0·60	0·70	0·07	21	19·4	18·63	11·72	5·60	37·42	22·40
		Jumui	0·10	1·26	0·53	1·50	2·24	2·16	0·07	0·35	2·12	0·18	23	18·1	21·73	12·30	3·11	[illegible]	23·02
		Gogri.	...	2·43	0·46	2·49	1·25	0·55		1·27	2·55	0·46	13	?	28·30	?	6·55	45·80	?
		Sheikpura	......	..	0·63	..	0·61	..	1·90	0·40	2·60	...	9	?	11·64	?	2·70	26·83	?
	South Bhagulpore.	Bhagulpore ..	0·03	1·59	0·20	0·90	...	2·11	0·37	1·35	0·93	0·66	23	18·8	17·83	11·56	2·11	33·26	24·74
		Banka.	1·50	0·76	0·59	0·67	..	1·10	0·32	0·64	0·56	0·85	21	18·0	12·59	10·42	1·57	28·58	22·18
		Kolgong.	0·10	0·30		0·40	0·04	2·50	0·50	0·82		0·22	[illegible]	?	20·33	?	7·50	39·66	?
		Bangaon.	.....		2·06	1·12	1·14	13·83	...	...		..	10	?	28·20	?	13·83	42·53	?
	Sonthal Pergunnahs.	Rajmehal ...	0·53	...	0·29	0·18	0·82	0·91	...	0·36	0·25	0·40	18	16·5	10·07	12·91	2·37	27·96	29·88
		Godda.	1·70	0·60	0·20	0·65		2·50	0·03	0·75	0·25	0·20	21	17·4	17·18	11·21	2·65	33·47	23·24
		Pakour.	0·07	0·04	1·36	0·23	0·24	1·18	0·59	0·51	0·59	0·10	27	17·7	13·40	13·56	2·06	43·50	31·32
		Nya Doomka.	0·86	0·23	0·07	2·08	0·49	1·13	0·15	0·76	0·32	0·10	27	24·2	18·11	13·19	3·91	36·79	28·91
		Deoghur.	1·41	0·06	0·19	0·53	1·20	1·22	0·06	0·27	3·72	0·21	25	21·7	7·50	13·04	3·72	30·88	27·31
		Jamtara.	1·72		1·09	0·72	0·25	0·20	0·23	1·11	0·23	1·22	26	20·4	16·41	13·54	2·55	40·38	27·16
		Mohagama.						1·85	0·38		1·26	0·86		?		?	2·12		?
		Nanihat.	1·65	0·21	0·83	0·12	0·25	0·42	0·32	0·85	0·61	...	17	?	10·31	?	1·66	19·33	?
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba ... (Giridi).	1·69	1·00	0·70	0·42	0·57	0·43	0·02	0·70	2·73	0·02	27	22·3	16·38	13·29	2·73	30·45	25·75
		Hazaribagh.	1·66	3·39	2·22	0·25	0·65	0·76	0·47	0·66	0·10	0·10	29	24·3	20·09	13·01	3·99	30·48	25·60
		Semtagurah.	0·52	0·50	0·54	0·44	0·85	0·70	0·54	0·10	0·28	...	22	19·7	14·14	12·78	2·86	21·01	25·48
		Mahudi Hills.												18·5					
		Jhoomrah Hills	0·30	1·10	2·70	0·90	3·80	0·10	0·70	0·60	0·40	0·20	23	21·7	20·50	16·87	3·80	35·60	31·28
		Barhi.	1·70	2·10	0·20	1·03	0·24	1·90	0·40	0·90	0·15	0·04	26	?	17·81	?	2·55	27·12	?
		Chatra.	1·50	0·40	2·55	0·08	0·37	0·56	0·60	2·20	0·50	...	23	?	17·32	?	2·35	27·37	?
		Karagdeha.	0·54	0·69	1·74	2·15	0·75	0·34	0·36	0·27	1·25	0·53	24	?	17·04	?	2·57	35·34	?
		Ramghar.	0·75	...	..	2·10	1·00	...	...	1·23	...	...	12	?	11·47	?	2·10	23·31	?
	Lohardugga.	Lohardugga ...	1·31	2·25	0·89	0·09	0·21	0·70	0·45	0·48	0·75	0·45	24	23·2	14·77	12·49	3·21	25·36	25·04
		Ranchi.	1·21	0·72	0·42	..	...	2·04	...	1·20	0·77	2·85	23	22·2	16·62	12·42	2·85	30·50	26·15
		Palamow.	4·34	0·17	0·06		1·20	0·01	...	1·10	0·50	0·66	26	19·5	18·12	12·91	4·46	28·01	23·38
		Silli.	1·00		..	...	...	0·90	...	1·60	2·00	..	10	?	11·40	?	2·00	22·20	?
		Balumat.	1·62	0·06	0·60	0·20	0·51	0·62	0·63	0·07	1·00	1·02	21	?	15·25	?	2·50	22·59	?
		Hosenabad.	1·82	..	3·85	0·22								?		?	3·85		?
		Garwah.	0·58	0·96	0·10	...	...	...	0·50	0·98	1·05	...	18	?	9·01	?	[illegible]	17·32	?
	Singbhoom.	Chyebassa	.....	0·16	0·30	0·06	...	0·07	0·11	0·90	0·75	0·55	19	21·7	9·42	14·00	2·42	23·83	29·29
		Chakradharpore.												?		?			?
		Ghatsila.	0·78	1·32	..	0·04	...	0·12	2·90	0·50	0·70	0·07	18	?	16·88	?	2·90	36·46	?
		Baharagura.	......	...	3·15	0·50	...	0·52	...	0·15	...	...	12	?	11·05	?	3·15	35·91	?
	Manbhoom.	Purulia ...	0·49	0·16	0·37		0·08	0·42	0·85	0·18	0·53	0·26	24	21·5	11·42	11·44	3·11	29·27	26·03
		Gobindpore	1·55	0·04	0·62	0·91	0·32	1·42	0·10	0·13	0·40	0·16	26	21·2	10·14	11·87	1·55	23·29	23·33
		Raghunathpore.	0·35	0·08	1·67	0·10	...	0·20	...	0·21	1·04	1·05	22	?	17·75	?	4·14	34·86	?
		Barrabhoom.	2·20	0·15	0·95	...	...	1·50	0·60	1·00	1·50	0·80	23	?	17·60	?	2·30	31·09	?
		Jhalda.	1·25	...	2·79	0·70	0·52	...	1·68	1·32	1·10	0·37	19	?	17·20	?	2·79	30·20	?
		Chas.	0·68	1·18	0·28		0·23	1·55	0·15	0·33	2·60	0·27	23	?	12·00	?	2·60	29·58	?

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF JULY 1890.

THE chief peculiarities in the weather of July have been—

1. The uniformly low pressure which obtained during the greater part of the month, the only occasion when excess continued for any considerable time being during the last week, when there was excess of from two to four hundredths of an inch in the southern districts, and of less than two hundredths in North Bengal, Behar and Chutia Nagpur. The mean defect for the month was generally between ·01 inch and ·02 inch in Lower Bengal, and between ·02 inch and ·05 inch in the northern districts.

2. Low temperature has prevailed. The month commenced with almost normal temperature, but after the first week there was always a considerable deficiency, especially in the northern half of the province, where unusually heavy rain has been falling. Defect increased towards the end of the month, and during the last week varied from 1·6° in Orissa to 3·6° in North Behar. The mean defect for the month is therefore considerable, being between ·6° and 1° in Lower Bengal and about 1·5° in the northern half.

3. Ordinary monsoon weather has prevailed with practically no intervals of disturbed weather. Rain has fallen in Orissa and South West Bengal on about the normal number of days, but in Behar and North Bengal the number is from four to six above the average, while the amount of rain received has been very largely above the normal in the Northern districts, especially over the Himalayas, and considerably above in the other districts, except Orissa and South-West Bengal.

4. The absence of the small cyclonic storms which usually form during the rainy season has been very marked, one depression occurring at the beginning of the month and another very unimportant whirl about the middle.

Cyclonic storm from June, 28th, to July, 2nd.—The depression began to form on June, 28th, and then appeared as a local shallow low pressure area over Orissa and South-West Bengal, the lowest pressure within it being 29·585 inches at Balasore. Westerly winds were blowing at Cuttack and False Point, and the easterly element in directions had become more pronounced in South-West Bengal, while rainfall was only light and local in Lower Bengal. On the following day pressure fell briskly everywhere; the cyclonic circulation became more distinct and the centre was still over the land between Balasore and Calcutta. After this a somewhat rapid deepening set in to the south-east of the depression, the largest changes being in Arakan, and a trough of low pressure extended from the Bay in a northerly direction. The centre was to the east of False Point and south of Saugor Island, and stormy weather, with heavy rain squalls, prevailed over the northern half of the Bay, but over the greater part of Bengal rainfall had almost ceased. On the 1st of July the storm had developed, the greatest difference of pressure from the south-east to north-west of the Bay being nearly half an inch Gradients were therefore steeper, and a slow westerly motion was taking the depression towards the Orissa coast, so as to pass near False Point. The storm area crossed the coast during the evening of this day, and after the passage of the centre, when pressure at False Point fell to 29·09 inches, a southerly gale blew at all the coast stations. A very rapid rise of pressure followed immediately afterwards, not only in the north-west of the Bay, but over the whole of Bengal, and from being largely below the normal an excess of about two-tenths of an inch accumulated in 28 hours. From about 9 P.M. on the 1st, when the storm centre was near False Point to 8 A.M. on the 2nd, pressure rose about half an inch, and in the eastern districts of Bengal the rise amounted to nearly two-tenths of an inch. These rapid changes of pressure seem to have had an important influence in preventing the in-rush of moist southerly winds, which usually follows depressions of even less intensity than this over the western districts of Bengal, as a westerly current commenced and shortly became general over the whole province, comparatively fine weather prevailing from the 3rd to the 5th.

After the rapid rise of pressure, which continued till the 4th, a slow steady fall set in over the whole province, and lowest pressure being in North Bengal and gradients rather steep, strong south-westerly winds blew at the head of the Bay and in Lower Bengal. Westerly winds blew for a day or two in the northern districts, but by the 7th easterly directions again prevailed, in consequence of the displacement of the area of lowest pressure towards the west. From this date till the 18th ordinary monsoon weather was unbroken, and is noteworthy only because of the weak monsoon which blew in the west of the Bay, while in East and North Bengal and Behar very heavy rain fell almost without interruption. Falls were usually heavy in the Darjeeling Hills and adjacent plains from the 14th to the 18th, with the exception of the 16th. The absence of rain in the western districts was probably due to the comparatively dry westerly current which had been blowing from central India, generally extending as far east as the centre of South-West Bengal, and on the 17th as far as Rungpore and Dhubri.

From the 19th till nearly the end of the month conditions were influenced by the shallow depression which, commencing to form in the north-west corner of the Bay on that day, moved towards the mouth of the Hooghly, and thence in a north-westerly direction over Chutia Nagpur. On the 20th the centre was close to Saugor Island, and pressure was under 29·4 inches; on the 21st the area of lowest pressure lay to the west of Burdwan and was almost unchanged in intensity from the previous day; while by 8 A.M. on the following day it had passed out of the province and lay well to the west of Hazaribagh and Gya. It

remained in the North-Western Provinces till the 24th when it filled up, the trough of low pressure at the same time closing up towards the Himalayas, and a steady south-westerly current blew over the whole province, giving heavy rain in all districts. On the 28th pressure fell briskly, and the distribution becoming more normal and uniform, easterly winds again set in and continued till the end of the month.

Strength of the monsoon.—The strength of the monsoon current blowing from the Bay over Bengal from year to year can only be judged by the wind velocities at the coast stations. In the table below are given the means of the actual daily wind velocities for July 1889 and 1890, compared with the normal values for the same month at representative stations on or near the coast line from Akyab to Gopalpore, at which wind observations have been taken for a sufficient length of time to give reliable averages. It will be seen that the only stations where velocity is under the average are Chittagong and Calcutta, and that the difference for these two is small while at all the others, except Akyab, there has been a large excess, amounting at Gopalpore to 110 miles per day and at Saugor Island to 96 miles. The strength of the monsoon current during this year has so far, therefore, been considerably above that of average years.

Stations.	Actual average wind velocity for July 1889.	Actual average wind velocity for July 1890.	Normal wind velocity in July.	Variation of wind velocity for July 1890 from the normal.
	Miles per day.	Miles per day.	Miles per day.	
Akyab ...	120	120	105	+ 15
Chittagong ...	132	149	162	— 13
Dacca ...	138	202	145	+ 57
Calcutta ...	91	102	130	— 28
Saugor Island	408	502	406	+ 96
False Point ...	303	324	280	+ 44
Gopalpur ...	348	410	300	+110

Pressure.—Changes were very large at the beginning of the month, and on the 1st a defect of nearly a quarter of an inch had accumulated in the neighbourhood of the depression. On the 2nd a very rapid rise was general in all districts except South Behar, exceeding ·2 inch in parts of Assam and East Bengal and ·15 inch in Orissa, South-West Bengal, and North Bengal. On the 3rd the rise was still more rapid in Orissa and Chutia Nagpur, and varied from ·22 inch to ·28 inch, but in the other districts it was much smaller and practically zero in North Bengal and Assam. On the 4th a very rapid fall prevailed, the resulting distribution being almost normal. As these rapid changes counterbalanced each other, the mean pressure during these days did not differ much from the normal, and as ordinary small oscillations followed till the middle of the month, large differences from the normal did not again occur. A rapid fall occurred on the 17th, followed by a slow steady rise for some days, after which small upward and downward changes rarely exceeding a twentieth of an inch, alternated till the end of the month. The means for the month are very nearly normal in East Bengal, and below the normal in the other districts by amounts varying from one to four hundredths of an inch.

Temperature—During the first five days was two or three degrees above the normal over the greater part of the province, but after that it has been almost without a break, considerably below in the northern districts, and slightly below in Lower Bengal except in Orissa and the adjacent part of South-West Bengal where, owing to the more scattered rainfall, temperature was at times slightly in excess. Defect in North Bengal and North Behar was very large at times, and during the last week the day temperatures were unusually low, the difference from the normal maximum temperature being at times very little under 10°, while defect in mean temperature was from 4° to 6°. On the 28th maximum temperature at Purneah was 10° below the normal, at Patna 9·8°, Arrah 9·1°, Rungpore 8·9°, and Chupra 8·6°; on the 29th at Arrah 9·1°, Buxar 8·7° and Chupra 8·5°; on the 30th at Durbhunga, Motihari, Patna, and Buxar defect was 8° or more. The monthly means, in consequence of these steady low temperatures, are largely below the normal in all districts except in Orissa and South-West Bengal, where defect is, however, over half a degree. Defect in South Behar is 1·6°, in North Behar, Chutia Nagpur, and Assam 1·4°, and in East and North Bengal ·9°.

Rainfall—Has been unusually heavy in all the northern districts, and moderately heavy in Chutia Nagpur and East Bengal, but in Orissa and South-West Bengal the falls have been very nearly normal, defect being nearly half an inch in the former and excess only ·2 inch in the latter, with an average fall of about 12 inches. The average falls in the other districts are very uniform, North Behar receiving 21·45, East Bengal 19·87, North Bengal 18, South Behar 16·28, and Chutia Nagpur 15·1 inches. Excess is largest in North Behar, amounting there to 9·1 inches, and in the other districts it varies from 4·26 inches in South Behar to ·12 inches in Chutia Nagpur. The districts where the amounts reported from the various stations show the greatest diversity are North Bengal and East Bengal, falls at the hill stations in the former rising to more than 70 inches, while in the plains one or two stations report about 10 inches. In East Bengal the range is from 10 inches to a little over 50 inches.

The comparison of the actual rainfall of the seven meteorological divisions of the province is most accurately shown in the form of a percentage. The figures representing the rainfall for the month calculated in this way are included in the table below under the heading of July. This table gives a condensed summary of the rainfall statistics of the present year up to date for each division, the first seven columns giving the actual rainfall in each month expressed as a percentage of the normal, while the eighth column shows the actual rainfall for the first seven months expressed as a percentage of the normal for the same period. It will be seen that, with the exception of East Bengal in June and Orissa in July, the rainfall during the monsoon season has been considerably in excess, and that, notwithstanding the very deficient rainfall during the early part of the year, the average amount from the beginning of the year has been exceeded in all districts by 2 to 4 per cent. in Lower Bengal, 9 per cent. in Chutia Nagpur, 17 per cent. in North Bengal, and 40 per cent. in Behar.

Meteorological Divisions.	January.	February.	March.	April.	May.	June.	July.	Actual rainfall of first seven months of 1890, expressed as a percentage of the normal fall for the period.
Orissa ...	24	5	216	20	99	124	97	103
South-West Bengal	98	Nil	39	75	87	141	102	104
East Bengal ...	184	4	70	122	102	89	120	102
North Bengal ...	98	Nil	26	155	81	132	129	117
North Behar ...	38	2	25	40	95	140	174	141
South Behar ...	Nil	5	63	80	95	183	136	138
Chutia Nagpur ...	Nil	Nil	120	1	65	132	116	109

With the exception of the south of Orissa and the south-east corner of East Bengal, actual falls have generally increased from the south towards the north. Over a band of country, including the south of Chutia Nagpur, Balasore, the greater part of Midnapur and the 24-Pergunnahs, Howrah, Hooghly, and Jessore, falls have been under 10 inches, and in the other parts of these districts between 10 and 20 inches, frequently about 15 inches. In Chittagong amounts vary from 33·8 at Satkanya to 51·28 inches at Chittagong station, in Chittagong Hill Tracts and Noakholly from 20 to 25 inches, but Hurrishpur reports 46·2 inches. Elsewhere in East Bengal falls are generally between 15 and 20 inches, increasing in the Mymensingh district where the heaviest fall is 29·9 inches at Durgapur. In Pubna, Bogra, Rajshahye, Maldah, Dinagepur, and Rungpur falls are between 10 and 15 inches, but in Julpigoree, Cooch Behar, and the Darjeeling Hills rainfall has been unusually heavy, Kurseong receiving 71·4, Silliguri 69·6, Buxa 60, Darjeeling, Bhagatpur and Kalimpong between 50 and 60, Julpigoree, Fallacatta, and Matabhanga more than 40 inches. In North Behar amounts have been very uniform, very rarely under 20 inches, and over 25 at Kaliaganj, Soopool, and Bagaha only. In South Behar falls are generally between 12 and 18 inches, the stations receiving more than 20 inches being Arrah 28, Gya 21·6, Bickram 22·5, Jamui 21·5, Gogri and Bongaon 28 and Kolgong 21 inches.

Rainfall has been deficient over a very small portion of the country, and as in those districts where these relatively light falls have been recorded, others considerably above the normal have occurred, the means are below the normal in Orissa only. The districts where there is either a small excess or deficient rainfall are Orissa (defect large in Balasore); Midnapur, 24-Pergunnahs, Howrah, the greater part of Burdwan, Nuddea, Khoolna and Jessore in South-West Bengal; Backergunge, Furreedpore, and Dacca in East Bengal; Bogra and Rungpore in North Bengal; Singbhoom and Manbhoom in Chutia Nagpur. On the other hand, excess is more than 5 inches at scattered stations in Lower Bengal and South Behar, from 5 to 10 inches at almost all stations in North Behar, 12·87 inches at Buxa, 15·4 at Julpigoree, 18·9 at Matabhanga, 25·29 at Kalimpong, 28·27 at Darjeeling, and 36·78 at Silliguri.

The following table gives full data for the comparison of the actual and normal rainfall for July in all districts. The first column gives the normal rainfall, the second the actual district rainfall as determined from the weighted rainfalls of the month, the third expresses

the percentage of actual to normal rainfall, and the fourth the excess or defect per cent. of normal :—

Percentage Table for July 1890.

Division.	District.	Normal district rainfall July.	Actual district rainfall July 1890.	Percentage of actual to normal rainfall.	Percentage excess (+), defect (—).
Orissa ...	Pooree	10·65	16·79	158	+ 58
	Cuttack	12·20	13·27	109	+ 9
	Balasore	12·20	6·72	55	— 45
South-West Bengal	Midnapore	13·76	6·47	47	— 53
	24-Pergunnahs	12·97	8·94	69	— 31
	Howrah	13·13	7·34	55	— 45
	Hooghly	12·71	9·74	77	— 23
	Burdwan	11·80	16·56	140	+ 40
	Bankoora	13·12	16·20	123	+ 23
	Beerbhoom	12·85	14·92	116	+ 16
	Nuddea	10·48	11·79	112	+ 12
	Khoolna	13·45	12·95	96	— 4
	Jessore	10·55	10·84	103	+ 3
	Moorshedabad	11·00	17·37	158	+ 58
East Bengal ...	Chittagong	28·52	49·23	173	+ 73
	Backergunge	18·78	19·70	105	+ 5
	Noakholly	21·82	29·26	134	+ 34
	Furreedpore	12·49	11·09	89	— 11
	Dacca	13·84	15·35	111	+ 11
	Tipperah	15·27	17·82	117	+ 17
	Mymensingh	13·55	17·86	132	+ 32
North Bengal ...	Pubna	10·83	10·60	98	— 2
	Bogra	13·69	13·39	98	— 2
	Rajshahye	11·82	20·58	174	+ 74
	Maldah	11·50	11·29	98	— 2
	Dinagepore	12·14	16·80	138	+ 38
	Rungpore	13·90	14·30	103	+ 3
	Cooch Behar	20·09	29·08	145	+ 43
	Julpigoree	26·06	41·46	159	+ 59
	Darjeeling	30·36	58·96	194	+ 94
North Behar ...	Purneah	15·47	21·44	139	+ 39
	North Bhagulpore	11·61	25·20	217	+117
	Durbhunga	11·60	23·12	191	+ 91
	Mozufferpore	11·26	20·44	181	+ 81
	Chumparun	12·12	23·25	192	+ 92
	Sarun	11·41	17·56	154	+ 54
South Behar ...	Shahabad	11·97	16·72	140	+ 40
	Gya	11·83	18·14	153	+ 53
	Patna	12·12	15·66	129	+ 29
	Monghyr	11·89	18·88	159	+ 59
	South Bhagulpore	10·91	14·72	135	+ 35
	Sonthal Pergunnahs	12·97	15·99	123	+ 23
Chutia Nagpur ...	Hazaribagh	13·40	17·68	132	+ 32
	Lohardugga	12·94	16·13	125	+ 25
	Singbhoom	14·00	9·42	67	— 33
	Manbhoom	11·53	11·16	97	— 3

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of July 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.							
			Averages for month.				Of month.			Rainy days.			Since 15th May 1890.	
	Highest observed during month.	Lowest observed during month.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of month above or below normal mean of month.	Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	94·9	72·8	86·9	78·6	82·7	—0·7	12·05	12·48	—0·43	17·1	17·9	—0·8	26·27	23·43
South-West Bengal	96·3	74·3	88·5	78·3	83·4	—0·6	12·20	12·00	+0·20	21·2	19·9	+1·3	30·50	24·86
East Bengal	91·7	70·0	85·8	76·7	81·3	—0·9	19·87	16·51	+3·36	25·2	22·3	+2·9	43·02	39·15
North Bengal	95·8	74·1	87·8	78·0	82·9	—0·2	18·02	14·04	+3·98	23·7	18·5	+5·2	45·20	37·03
North Behar	95·2	74·9	88·1	78·2	83·2	—1·4	21·45	12·34	+9·11	21·4	15·7	+5·7	35·72	22·91
South Behar	99·0	70·0	87·4	78·1	82·8	—1·6	16·28	12·02	+4·26	22·3	17·8	+4·5	30·11	20·32
Chutia Nagpur	87·5*	69·4*	82·3*	72·3*	77·3*	—1·4*	15·10	13·09	+2·01	23·7	21·4	+2·3	26·78	22·74
Assam	97·1	74·3	87·6	77·1	82·4	—1·4								

* Chyebassa not included.

Meteorological Office, Bengal ;
The 12th August 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Be

Meteorological Division	District.	Representative station.	Station Observations. Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperatures. Highest during week.	Temperatures. Date.	Temperatures. Lowest during week.	Temperatures. Date.	Temperatures. Mean maximum temperature.	Temperatures. Mean minimum temperature.	Temperatures. Mean daily temperature of week.	Temperatures. Variation from normal mean of week.
Orissa.	Pooree	Pooree	29·632	29·644	—	Calm	250	89·7	3 to 5 Aug.	78·1	7th Aug.	86·0	79·3	84·2	—
		Gopalpore	29·613	29·625	+·018	N	226	88·2	7th ,,	78·6	6th & 7th Aug.	85·5	79·5	82·5	—1·2
		False Point	29·628	29·650	+·035	Variable	216·0	87·4	5th to 7th Aug.	77·6	4th & 7th Aug.	86·9	78·5	82·7	+0·1
	Cuttack	Cuttack	29·575	29·656	+·048	Variable	54·3	91·9	3rd ,,	77·9	7th ,,	90·2	79·3	84·8	+1·0
	Balasore	Balasore	29·608	29·667	+·068	Variable	85·9	90·4	6th ,,	75·7	6th ,,	88·5	76·8	82·7	+0·1
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·643	29·669	+·069	SSE	277·7	91·2	6th ,,	78·0	6th ,,	89·3	79·3	84·3	+0·1
	Midnapore	Midnapore	29·525	29·675	+·063	Variable	138·7*	92·3	5th ,,	77·1	4th, 6th & 7th Aug.	89·7	77·8	83 8	+0·6
	24-Pergunnahs / Howrah / Hooghly	Calcutta	29·657	29·679	+·067	South-easterly	61·7	90·0	5th ,,	75·7	7th ,,	88·2	76 9	82·6	—0·5
	Burdwan	Burdwan	?	?	?	S	87·6	92·6	6th ,,	78·4	3rd & 7th Aug.	89 9	79·4	84·6	+0·2
	Bankoora	Bankoora	29·353	29·652	+·061	Calm	76·0	92·1	6th ,,	77·1	3rd ,,	88·4	78·2	83·3	+0·3
	Beerbhoom / West Burdwan	Ranegunge	29·338	29·673	+·091	SSE	58·3	92·5	6th ,,	77·1	3rd ,,	88·2	77·9	83·1	—0·3
	Berhampore	Berhampore	29·615	29·682	+·084	SSE	87·1	90·6	6th ,,	76·8	6th ,,	88·0	78·0	83·0	—0·7
	Moorshedabad	Krishnaghur	29·630	29·679	+·096	SSE	121·3	?	?	?	?	?	?	?	?
	Nuddea	Jessore	29·655	29·689	+·079	?	?	91·2	5th ,,	77·4	6th & 7th Aug.	88 6	78·6	83·6	—0·5
	Jessore / Khoolna	Chittagong	29·641	29·732	+·055	SSE	93·6	87·6	3rd to 6th August.	72·5	8th ,,	87·4	72·9	80·2	—0·7
East Bengal.	Chittagong	Demagiri	Observations not received.												
	Chittagong Hill Tracts	Barrisal	29·683	29·695	+·081	SE	94·2	90·3	5th Aug.	76·8	2nd & 6th Aug.	87·4	78·1	82·8	+0·9
	Backergunge	Noakholly	29·692	29·736	+·085	SE	147·6	88·5	5th ,,	75·3	5th ,,	85·9	77·1	81·5	+0·3
	Noakholly	Furreedpore	29·676	29·716	+·090	SE	93·0	88·5	5th ,,	76·9	7th ,,	85 7	79·5	82·6	—0·1
	Furreedpore	Dacca	29·678	29·701	+·078	South-easterly	123·5	89·6	3rd & 5th Aug.	78·7	7th ,,	87·7	77·3	82 5	—1·2
	Dacca	Commillah	29·688	29·724	+·081	S & South-easterly	168 8	89·9	5th ,,	75·3	7th & 8th Aug.	87·4	76·2	81·8	+0·3
	Commillah	Mymensingh	29·655	29·713	+·080	SE	96·8	90·2	6th ,,	76·1	6th ,,	86·1	77·7	81·9	—0·6
	Mymensingh	Bogra	29·622	29·655	+·102	Calm	87·4	91·3	6th ,,	76·6	8th ,,	87·4	78·0	82·7	—0·5
North Bengal.	Bogra	Serajgunge	29·630	29·697	+·077	S & SSE	55·3	90·6	5th ,,	78·3	2nd, 6th, 7th & 8th Aug.	84·9	78·9	81·9	—1·1
	Pubna	Rampore Beauleah.	29·620	29·690	+·105	Variable	100·2	91·3	6th ,,	77·0	6th ,,	86·0	78 6	82·3	—0·1
	Rajshahye	Maldah	29·549	29·681	+·138	E & SE	68·9	91·7	5th ,,	76·3	2nd ,,	87·6	78·4	83·0	—1·4
	Dinagepore	Dinagepore	29 570	29·690	+·097	E	72·0	91·6	6th ,,	77·1	2nd ,,	87·3	79·5	83·4	—0·2
	Rungpore	Rungpore	29·587	29·712	+·090	ESE	60·0	92·8	6th ,,	74·7	2nd ,,	88·2	77·6	82·9	—0·3
	Julpigoree / Cooch Behar	Julpigoree	29·420	29·708	+·091	?	?	89·9	6th ,,	74·1	3rd & 4th Aug.	85·6	75·9	80·8	—1·4
	Darjeeling Hill Tracts	Darjeeling	28·922	—	+·040	Variable		68·1	6th & 7th Aug.	54·0	3rd ,,	64·6	55·7	60·2	—1·9
North Behar.	Purneah / North Bhagulpore	Purneah	29·559	29·685	+·089	Calm	38·0	91·2	6th ,,	75·4	2nd ,,	87·0	76·9	82·0	—2·6
	Mozufferpore	Mozufferpore	29·480	29·661	—	E	169·3	90·3	6th ,,	75·2	5th ,,	86·6	77·8	81·9	—
	Durbhunga	Durbhunga	29·513	29·681	+·086	Easterly	155·0	90·4	6th ,,	72·5	5th ,,	86·8	76·7	81·8	—2·9
	Chumparun	Motihari	29·460	29·688	+·107	ENE	175·7	90·2	6th & 7th Aug.	74·9	3rd ,,	87·3	77·2	82·3	—1·7
	Sarun	Chupra	29·451	29·645	+·070	E	129·5	89·3	6th ,,	75·6	5th ,,	86·9	78·6	82·8	—1·1
South Behar.	Shahabad	Dehree	29·293	29·648	+·066	Calm	56·0	89·3	6th ,,	76·5	5th ,,	87·1	78·2	82·7	+0·1
		Buxar	29·410	29·693	+·036	E	152·4	88·4	6th ,,	73·6	5th ,,	85·0	76·8	80·9	—2·4
		Arrah	29·453	29·640	+·083	Calm	?	90·4	6th ,,	74·1	3rd ,,	86·6	76·7*	81·6*	—2·3
	Gya	Gya	29·282	29·661	+·077	E	104·0	90·9	5th ,,	78·8	2, 3, 6, & 8th Aug.	88·4	79·3	83·9	—0·9
	Patna	Bankipore	29·475	29·659	+·071	E	130·8	88·9	5th ,,	74·7	3rd to 5th	86·7	77·6	82·2	—2·2
	South Bhagulpore / Monghyr	Bhagulpore	29·501	29·664	+·090	Calm	39·0	90·2	6th ,,	75·0	2nd ,,	85·0	77·5	81·3	—2·5
Chutia Nagpur.	Sonthal Pergunnahs	Doomka	29·177	29·676	+·092	South-easterly	127·3	89·1	5th & 6th Aug.	74·3	6th ,,	86·2	76·2	81·2	—1·5
	Hazaribagh	Hazaribagh	27·686	29·672	+·008	Variable	172·0	85·9	5th & 6th Aug.	72·2	6th & 7th Aug.	83·0	72·8	77·9	—0·6
	Lohardugga / Manbhoom	Ranchee	27·546	29·664	+·069	Calm	110·4	86·5	6th ,,	69·9	6th ,,	82·9	71·4	77·2	—0·1
	Singbhoom	Chyebassa	28·598	29·663	+·079	Variable	37·3	92·4	6th ,,	76·2	3rd, 7th & 8th Aug.	89·2	76·9	83·1	+0·5
Assam.	Assam	Sibsagar	29·406	29·742	+·076	SW&SSW	50·8	94·6	7th ,,	75·0	2nd ,,	87·7	77·9	83·8	+2·0
		Dhubri	29·593	29·711	+·076	Calm	67·6	86·2	6th ,,	74·8	2nd ,,	83·3	77·0	80·2	—3·7
		Silchar	29·624	29·730	+·061	Calm	38·9	91·5	5th ,,	76·2	2nd, 7th & 8th Aug	88·3	77·3	82·8	—1·0

*Mean of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for th
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100 A clear sky is denoted by 0 and the overcast sky by 10. The nu
ans the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during th
stations in the district heading in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

ie week ending Friday, the 8th of August 1890.

Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	District observations. Rainfall. Of week. Mean for district.	Normal mean.	Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 15th May 1890. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
6·1	1·22		2·84		3·35			25·46			4·2	Pooree		Orissa.
2·1	1·86											Gopalpore	Pooree	
7·3	0·56											False Point		
7·6	1·72	0·06	2·77	1·53	3·09	—1·56	28·45	26·75	+1·70	2·8	4·3	Cuttack	Cuttack	
4·3	2·70	1·84	2·01	2·27	3·57	—1·30	27·03	27·56	—0·53	3·3	4·3	Balasore	Balasore	
9·1	1·84	1·89	3·55	2·57	4·04	—1·47	26·83	31·52	—4·69	3 7	4·5	Saugor Island	South-West Midnapore / South 24-Pergunnahs	South-West Bengal.
3·6	0·55	1·01	3·57	1·04	4·44	—3·40	30·28	28·66	+1·62	3·3	4·3	Midnapore	Midnapore	
8·0	3·08	2·86	3·01	2·99	3·03	—0·04	31·31	28·65	+2·66	4·1	5·0	Calcutta	24-Pergunnahs / Howrah / Hooghly	
9·0	3·53	2·25	2·43	3·32	2 05	—0·63	39·58	24·99	+14·59	4·3	4·4	Burdwan	Burdwan	
7·7	0·48	0·76	3·51	0·80	4·43	—3·63	33·05	29·70	+3·35	2·8	4·5	Bankoora	Bankoora	
6·7	2·05	2·02	2·65	2·16	3·50	—1·34	37·16	28·50	+8·66	3·3	5·0	Ranegunge	Beerbhoom / West Burdwan	
9·1	1·56	2·51	3·08	2·89	3·78	—0·89	34·87	26·94	+7·93	4·2	4·5	Berhampore	Moorshedabad	
8·4	3·74	2·22	2·30	2·53	2·75	—0·22	30·14	26·24	+3·90	4·6	4·4	Krishnaghur	Nuddea	
9·0	1·86	1·84	2·84	2 07	3·48	—1·41	33 03	30·38	+2·65	4·4	4·7	Jessore	Jessore / Khoolna	
6·7	4·05	3·37	6·62	3·47	7·73	—4·26	81·48	73·73	+7·75	4·5	5·8	Chittagong	Chittagong	East Bengal.
			4 20		4·74			45·84			5·8	Domagiri	Chittagong Hill Tracts	
7·6	2·07	2·02	4·21	2·69	4·97	—2·28	44·51	40·08	—1·57	4·5	5·8	Barrisal	Backergunge	
4·3	2·53	4·03	6·68	4·94	7 03	—2·08	58·54	62·98	—4·44	5·0	6·0	Noakholly	Noakholly	
6·9	1·06	1·02	2·96	1·13	3·48	—2·35	24·80	32·32	—7·52	2·7	4·8	Furreedpore	Furreedpore	
8·7	4·41	3·55	3·34	3·75	3·96	—0·21	40·40	35·27	+5·13	3·8	5·6	Dacca	Dacca	
6·0	3·05	2·20	4·13	2·50	4·80	—2·30	40·19	30·30	+9·89	4·5	5·4	Commillah	Tipperah	
8·0	2·36	2·23	3·20	2·96	3·71	—0·75	47·19	39·53	+7·66	3·6	5·0	Mymensingh	Mymensingh	
6·4	2·71	1·86	2·78	3·17	3·08	+0·09	37·36	33·30	+4·06	4·3	4·6	Bogra	Bogra	North Bengal.
8·9	1·06	0·95	2·80	1·43	2·45	—1·02	28·71	27·98	+0·73	3·5	4·2	Serajgunge	Pubna	
3·3	2·31	1·14	2·57	2·26	3·20	—0·94	44·01	29·16	+14·85	4·0	4·4	Rampore Beauleah	Rajshahye	
4·6	2·30	3·08	2·73	4·53	3·19	+1·34	29·51	29·84	—0·33	4·5	4·7	Maldah	Maldah	
7·7	4 70	3·41	2·85	4·06	3·07	+1·59	41·45	32·80	+8·65	3·0	4·8	Dinagepore	Dinagepore	
3·1	2·08	1·83	2·82	4·32	3·10	+ 1·22	49·84	45·99	+3·85	3·0	4·5	Rungpore	Rungpore	
2·1	3·69	3·90	5·28	5·45	5·92	—0·47	83·97	66·38	+17 59	3·8	6·0	Julpigoree	Julpigoree / Cooch Behar	
9·4	7·10	5·52	7·22	6·74	7·94	—1·20	103·79	75·47	+28·32	5·3	6·4	Darjeeling	Darjeeling Hill Tracts	
6·3	3·36	3·90	3·10	4·37	3·56	+0·81	45·82	31·84	+13·98	3·8	4·4	Purneah	Purneah / North Bhagulpore	North Behar.
5·9	4·05	3·50	2·44	3·84	2·93	+0 91	34·06	23·16	+10·90	5·0	4·0	Mozufferpore	Mozufferpore	
6·9	4·05	4·18	2·49	4·10	2·86	+1·23	30·18	23·78	+15·40	5·0	3·8	Durbhunga	Durbhunga	
7·4	2·27	2·90	2·65	2·90	3·15	—0·25	42·66	24·78	+17·88	4·5	3·9	Motihari	Chumparun	
4·6	2·88		2·53		3·02			22·72			3·8	Chupra	Sarun	
6·3	0·51							Dehree						
7·9	4·11	2·27	2·80	2·68	3·38	—0·70	30·04	20·59	+9·45	5·2	3·7	Buxar	Shahabad	South Behar.
8·7	5·82							Arrah						
7·0	0·89	1·35	2·89	1·82	3·40	—1·58	33·39	22·63	+10·76	4·3	3·8	Gya	Gya	
9·6	3·79	3·26	2·41	3·41	3·00	+0·41	28·60	22·66	+5·94	3·5	3·8	Bankipore	Patna	
8·0	3·31	1·65	2·72	3·23	3·28	—0·05	34·94	23·58	+11·36	3·8	4·2	Bhagulpore	South Bhagulpore / Monghyr	
4·6	6·56	2·87	2·84	4·35	3·26	+1·09	57·77	27·65	+10·12	5·0	4·5	Doomka	Sonthal Pergunnahs	Chutia Nagpur.
10·0	1·95		3·11		3·94			26·96			5·0	Hazaribagh	Hazaribagh	
9·3	1·98	2·55	3·48	3·04	4·34	—1·30	27·76	26·46	+1·30	4·7	5·4	Ranchi	Lohardugga / Manbhoom	
		0·95	3·39	1·00	4·28	—3·28	25·55	26·14	—0·59	4·0	5·2			
7·6	1·03	0·78	3·86	0·94	4·71	—3·77	29·89	29·89	—7·40	2·0	5·7	Chyebassa	Singbhoom	
												Sibsagar		Assam.
9·4	3·07											Dhubri	Assam	
9·6	1·00											Silchar		
9·1	0·95													

ears. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
ling cloud amounts represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
ars. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 8th of August 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 2nd August.	Sunday, 3rd August.	Monday, 4th August.	Tuesday, 5th August.	Wednesday, 6th August.	Thursday, 7th August.	Friday, 8th August.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa	Pooree	Pooree	.....	.....	0·04	.....	0·42	1·08	0·11	4	1·65	1·86	2·83	27·80	22·70
		Khurdah	.....	.....	0·01	0·30	0·28	0·71	.....	4	1·30	1·30	3·50	40·49	27·92
		Banpur	.....	0·09	0·35	0·46	0·40	.....					3·69		22·36
		False Point	.....	.....	0·12	.....	.....	0·14	0·30	3	0·56	0·85	3·38	[25·83	28·84
		Gop											?		?
		Satpara	.....	.....	.....	0·20							?		?
		Pepli													
	Cuttack	Jagatsingpore	.....	.....	0·80	0·15	0·20						3·40		23·07
		Banki	.....	.....	.....	0·18	.....	0·55	.....	2	0·73	0·73	2·52	29·98	24·53
		Cuttack	0·13	.....	.....	0·70	0·10	0·96	.....	4	1·89	1·89	3·02	38·50	30·70
		Kendrapara	0·32	.....	.....	.....	0·09	0·20	0·01	4	0·62	2·09	3·65	21·67	26·68
		Jajpore	.....	.....	.....	.....	.....	0·43	.....	1	0·43	0·43	2·85	26·30	28·63
		Dharmsala	.....	.....	.....	.....	0·70	0·30	0·80				?		?
		Salipore	.....	.....	0·42	.....	0·22						?		?
	Balasore	Chandbali	.....	.....	0·05	.....	0·93	0·40	0·23	4	1·61	1·71	4·02	24·76	26·26
		Bhuddruck	.....	.....	.....	.....	.....	.....	1·12	1	1·12	1·12	3·10	26·79	27·13
		Sorah	.....	.....	.....	.....	1·00	0·70	0·50	3	2·20	2·20	3·63	27·48	25·84
		Balasore	.....	.....	0·03	.....	0·31	1·20	1·11	4	2·65	2·65	3·99	28·60	29·48
		Jellasore	.....	0·43	.....	0·57	.....	0·10	1·50	4	2·60	2·70	3·18	26·45	28·03
		Baripodah	.....	.....	.....	0·21	0·41	0·08	0·13	4	0·83	3·23	3·47	28·06	28·45
South-West Bengal.	Midnapore	Contai	.....	.....	.....	0·01	1·00	0·46	0·49	4	1·96	2·18	4·40	26·00	31·03
		Sangor Island	.....	.....	0·03	.....	0·79	0·21	0·81	4	1·84	2·44	4·02	25·80	33·07
		Tumlook	.....	.....	.....	.....	0·90	.....	0·70	2	1·60	1·60	4·10	33·70	27·71
		Midnapore	0·10	0·14	.....	0·06	.....	0·44	.....	4	0·74	0·83	3·98	29·08	27·24
		Ghattal	0·20	.....	.....	.....	0·16	0·25	0·07	4	0·68	0·68	5·25	29·11	31·03
		Kukrahaty	.....	.....	.....	0·17	0·14	0·12	0·83	4	1·26	1·55	?	19·76	?
		Garbetta	.....	.....	.....	.....	.....	0·18	0·13	2	0·61	0·61	?	31·13	
	24-Pergunnahs	Diamond Harbour	.....	.....	.....	0·15	0·60	0·10	1·02	3	1·87	3·09	3·69	28·54	30·49
		Canning Town	.....	.....	.....	.....	0·53	0·70	0·20	3	1·46	1·79	?	30·05	?
		Alipore Jail	0·01	.....	.....	0·02	1·79	0·80	0·40	5	3·11	3·25	3·45	32·02	29·89
		Barrackpore	.....	.....	0·08	.....	1·13	0·30	1·35	4	2·86	2·86	3·87	27·92	28·38
		Dum-Dum	.....	.....	.....	.....	2·15	0·34	0·42	3	2·91	3·19	3·34	26·51	28·06
		Baraset	0·07	.....	0·82	.....	1·95	0·10	0·29	5	3·23	3·73	3·19	28·24	28·18
		Bussorhat	0·26	.....	.....	.....	0·40	.....	0·54	3	1·20	1·20	3·63	32·91	31·12
	Howrah	Howrah	0·01	.....	.....	0·11	1·78	0·17	0·40	5	2·47	2·47	3·42	27·54	28·20
		Mohesreka (*Ooloberiah*)	.....	0·02	.....	.....	0·77	0·04	1·82	4	2·65	2·65	4·08	39·57	29·25
	Hooghly	Serampore	0·01	.....	0·17	.....	1·36	0·34	1·35	5	3·23	3·23	3·40	29·18	28·18
		Hooghly	.....	.....	.....	.....	1·86	0·05	1·25	3	3·16	3·54	3·57	29·38	27·50
		Jehanabad	0·22	.....	.....	.....	2·84	0·35	0·34	4	3·75	3·75	4·78	38·75	29·39
	Burdwan	Culna	0·14	.....	0·06	.....	0·84	.....	0·90	4	1·94	1·94	2·61	34·54	23·84
		Burdwan	0·36	0·07	.....	.....	0·02	2·99	0·09	5	3·53	3·72	3·02	47·03	25·24
		Cutwa	.....	.....	.....	0·76	0·30	0·15	0·06	4	1·27	1·28	3·25	38·05	25·85
		Raneegunge	0·19	.....	.....	.....	0·98	0·17	0·71	4	2·05	2·19	3·18	30·03	27·40
		Mankur	0·06	.....	.....	.....	0·52	0·21	0·34	4	1·13	1·71	?	33·83	?
	Bankoora	Bankoora	0·04	.....	.....	.....	.....	0·31	0·15	3	0·50	0·50	4·18	37·07	28·26
		Bishenpore	.....	.....	.....	.....	.....	0·59	.....	1	0·59	0·59	4·91	33·46	29·34
		Maliara	.....	.....	.....	.....	0·15	0·11	0·13	3	0·39	0·48	4·07	38·79	28·15
		Khatra	.....	.....	0·16	.....	0·18	0·91	3·31	4	1·56	1·61	4·54	24·32	32·97
		Indas	.....	.....	.....	.....	.....	.....	1·14	1	1·14	1·14	?	42·00	?
		Kotalpore	.....	.....	.....	.....	.....	1·14	.....	1	1·14	1·14	?	47·89	?
		Anda	.....	.....	.....	.....	.....	0·30	.....	1	0·30	0·30	?	32·46	?
		Gangajalghati	.....	.....	.....	.....	1·06	0·57	0·23	3	1·86	1·86	?	43·98	?
		Raipore	.....	.....	.....	.....	0·29	1·72	0·28	3	2·29	2·51	?	34·23	?
		Samanukhi	.....	.....	.....	.....	.....	0·37	0·47	2	0·84	0·84	?	33·63	?
	Beerbhoom	Bh. Soory	0·02	.....	.....	.....	.....	0·37	0·50	3	0·89	1·01	3·07	30·38	28·97
		Hetampore	.....	.....	.....	.....	0·50	0·21	.....	2	0·71	0·70	3·54	33·38	31·01
		Rampore Haut	1·02	.....	.....	.....	2·25	0·10	1·06	4	4·43	4·65	3·62	39·76	26·55
		Bolpore	.....	.....	0·09	.....	.....	0·62	0·06	3	0·77	1·73	?	35·02	?
		Murarai	0·18	.....	.....	0·30	.....	1·50	0·90	4	2·88	2·88	?	34·61	?
	Nuddea	Ranaghat	.....	0·07	.....	.....	1·26	0·25	0·12	4	1·70	1·72	3·57	31·04	26·21
		Kishnaghur	0·08	0·03	.....	0·03	2·18	0·12	1·36	6	3·80	4·07	2·34	36·62	24·00
		Chooadanga	0·35	.....	.....	.....	0·21	0·07	1·05	4	1·68	2·16	2·94	24·66	26·91
		Meherpore	0·16	.....	0·17	.....	1·65	0·25	0·70	5	2·92	3·22	2·30	30·70	25·13
		Kooshtea	0·10	.....	.....	.....	0·33	0·51	0·08	4	1·02	1·52	2·60	27·58	28·86
	Khoolna	Satkhira	0·42	0·15	0·14	.....	0·57	0·42	0·29	6	1·98	2·12	3·52	33·97	32·19
		Bagirhat	.....	.....	.....	.....	1·62	0·23	.....	2	1·85	2·20	4·24	44·69	36·47
		Khoolna	05·6	0·04	.....	.....	1·35	0·61	.....	4	2·56	2·56	3·41	35·32	30·63
		Nakipur	.....	.....	.....	.....	0·16	0·50	0·18	3	0·84	1·42	?	37·24	?
		Rampal	.....	.....	.....	.....	0·85	0·04	0·06	3	1·55	1·59	?	38·04	?
	Jessore	Narail	0·35	0·17	.....	.....	0·69	0·30	0·05	5	1·56	1·64	3·58	30·80	26 78
		Jessore	0·42	.....	0·15	.....	0·60	0·42	0·27	5	1·86	2·38	3·73	33·43	31·36
		Jhenidah	.....	0 12	0·16	.....	0 41	0·39	0·10	5	1·18	1·30	3·17	33·85	29·11
		Magoorah	0·03	.....	0·75	.....	0·45	0·57	0·77	5	2·37	2·86	3·06	27·41	29·19
		Bongong	.....	.....	.....	.....	0·22	0·45	0·50	3	1·17	1·62	3 17	25·23	27·18
	Moorshedabad	Kandi	0·70	.....	0·21	.....	0·91	0·45	0·21	5	2·48	2·58	3·60	35·92	27·71
		Berhampore	0·04	.....	.....	.....	1·38	0·09	0·05	4	1·56	1·96	4·13	33·76	26·92
		Lalbagh	.....	.....	.....	.....	2·21	0·34	0·05	3	2·60	2·94	3·63	38·50	25·30
		Azimgunge	.....	.....	.....	0·21	1·30	0·10	.....	3	1·61	2·46	3·07	34·62	27·15
		Jungipore	2·00	0·00	.....	.....	2·43	0·05	0·15	5	4·69	5·29	3·83	29·92	26·61
		Lalgola	0·25	0·25	.....	.....	1·15	0·30	0·15	5	2·10	2·10	3·64	36·51	27·94
		Jiagunge	.....	.....	.....	.....	1·37	0·05	.....	2	1·42	1·81	?	31·42	?
		Akhriguni	0·04	.....	.....	.....	2·47	0·17	.....	3	2·68	2·74	?	37·05	?
		Patkabari	.....	0·60	.....	0·20	.....						?		?
East Bengal	Chittagong	Cox's Bazar	.....	.....	.....	0·20	0·10	0·10	0·98	4	1·38	1·48	9·08	87·90	89·01
		Chittagong	.....	.....	0·08	4·08	0·18	0·72	0·30	5	5·36	5·40	6·37	75·09	58·39
		Kutubdia	0·03	.....	.....	1·34							?		?
		Satkanya	.....	.....	0·19	2·85	0·31	0·51	1·52	5	5·38	5·38	?	55·13	?
	Chittagong Hill Tracts	Rangamati	.....	1·15	4·05	0·20	0·85	0·34	0·10	6	6·69	7·14	5·01	47·37	48·96
		Ruma											3·06		43·26
	Backergunge	Patuakhally	.....	.....	.....	.....	0·45	1·05	0·19	3	1·69	2·40	5·42	47·77	53·77
		Perozepore	.....	.....	0·18	.....	0·35	0·25	0·40	4	1·18	2·58	4·79	44·70	49·77
		Burrisal	0·20	.....	.....	0·25	0·49	0·73	0·53	5	2·20	2·50	[3·96	45·24	49·35
		Bhola	0·05	0·06	.....	1·15	0·08	0·07	0·70	6	3·01	3·23	5·09	40·34	49·33

ement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 8th of August 1890 —contd.

ogical ion.	District.	Station.	Rainfall							Total.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May, 1890.	Average rainfall from 15th May to date.
			Saturday, 2nd August.	Sunday, 3rd August.	Monday, 4th August.	Tuesday, 5th August.	Wednesday, 6th August.	Thursday, 7th August.	Friday, 8th August.	Number of rainy days.	Rainfall of week.				
ENGAL. ld.		*Gournaddi* ...	.....	.....	.....	0·38	0·32	0·07	0·08	4	0·85	0·85	?	27·12	?
		Bauphal ...	0·02	.....	.....	0·13	0·11	0·94	0·62	5	1·82	2·18	?	12·91	?
	Noakholly ...	Noakholly ...	0·05	0·16	0·03	0·95	0·29	0·10	0·80	7	2·38	2·60	8·03	51·59	62·77
		Fenny ...	.....	.....	.....	5·05	.....	0·23	1·00	3	6·68	7·28	7·21	65·45	61·14
		Hartikpore ...	.....	.....	.....	1·10							?		
		Lamganj ...	.....	.....	.....	0·60	0·19	.....	0·40	3	1·19	1·19	?	45·85	
	Furreedpore	Madaripore ...	.....	.....	.....	0·17	.....	0·40	0·37	3	0·94	0·94	3·87	24·44	31·16
		Furreedpore ...	.....	.....	.....	0·90	0·19	... ..	.....	2	1·09	1·09	3·41	24·65	32·84
		Goalundo ..	.....	.....	.....	.....	0·43	0·31	0·29	3	1·03	1·35	3·15	25·55	30·60
	Dacca ...	Munshigunge	.....	.....	.....	.....	2·70	0·45	0·15	3	3·30	3·47	4·56		40·29
		Dacca ...	0·42	... ..	.....	.....	2·35	0·50	1·35	4	4·02	4·99	3·67	40·23	39·61
		Narainguage	0·72	.....	.....	.....	3·53	0·63	0·34	4	5·22	5·32	3·77	46·35	36·61
		Manickgunge	0·07	.....	... ..	.....	0·74	0·20	0·05	4	1·06	1·22	3·85	31·45	13·27
		Joydebpore ...	0·59	.....	.....	1·11	1·22	0·68	0·83	5	4·53	4·55	?	42·34	
	Hill Tipperah	Agartola ...	0·15	.....	.....	0·50	0·08	1·05		4	1·78	1·78	3·85	41·88	31·44
	Tipperah ...	Comilla ...	0·03	0·38	0·04	0·26	1·05	0·15	0·03	7	2·54	2·60	5·81	11·06	16·37
		Chandpore ...	.....	... ..	...	0·90	.....	2·40	0·30	3	3·60	4·70	5·89	39·10	41·65
		Brahmunberia	.....	... ..	0·42	.....	0·20	0·18	0·08	4	0·88	0·91	3·66	35·65	51·92
		Ramchandrapore ...	1·42	0·06	0·05	1·02	1·91	.....	0·10	6	4·56	4·60	?	51·59	?
		Nasirnagar ...	.....	.....	0·20	.....	0·50	0·40	... ..	3	1·10	1·10	?	26·11	?
		Daudkandi ...	... ..	.....	... ..	.....	0·42	0·54	0·39	3	1·35	2·10	?	29·13	?
		Kasba ...	0·27	.....	... ..	0·02	.....	.....	.....	2	0·29	0·29	?	48·91	?
		Laksham ..	.....	.....	0·73	.....	.....	.....	... ..	1	0·73	1·63	?	50·65	?
	Mymensingh ...	Kishoregunge	.....	.....	0·23	.....	0·21	0·12	0·29	4	0·85	1·32	4·30	41·26	41·15
		Atia (*Tangail*)	... ..	...	.....	.....	0·54	0·12	... ..	2	0·66	1·21	3·22	35·01	51·10
		Mymensingh	0·73	.....	... ..	.....	0·98	0·70	0·63	4	2·14	2·70	3·15	49·06	42·51
		Jamalpore ...	0·68	... ..	.....	.....	.....	0·14	0·16	3	0·98	2·92	3·70	47·88	31·10
		Netrokona ...	2·40	0·32	.....	.....	2·50	0·12	1·19	5	6·53	6·67	4·19	63·42	47·93
		Subornakhally					0·70	.....	2·60	3	5·40	5·70	?	74·88	?
		Durgapore ...	2·10	.....	.....	.....	... ..	0·81	.....	2	1·50	2·08	?	39·26	?
		ShereporeTown	0·69	.....	.....	.....	... ..						?		?
		Dewanganj ...	.....	... ..	.....	.....	0·35								
TH IGAL.	Pubna ...	Pubna ...	0·12	.....	.....	.....	0·09	0·12	0·32	4	0·85	1·30	2·41	24·91	27·15
		Serajgunge ...	.....	.....	.....	.....	0·23	0·24	0·58	3	1·05	1·55	2·48	32·96	28·81
	Bogra ...	Sherepore ...	0·25	.....	.....	.....	0·05	0·07	0·37	4	0·74	1·01	3·17	36·19	33·71
		Nowkhilla ...	0·82	.....	.....	.....	.....	0·27	.....	2	1·09	2·01	3·82	35·12	31·37
		Bogra ...	0·18	0·03	1·03	0·19	0·03	0·10	0·50	7	2·06	3·28	2·46	34·91	35·92
		Panchbibi ..	2·12	0·32	.....	.....	0·99	.....	0·10	4	3·53	5·93	3·39	45·09	32·15
	Rajshahye ...	Beauleah ...	0·15	0·39	.....	.....	1·26	0·13	0·12	5	2·05	2·10	3·13	45·28	27·58
		Nattore ...	0·07	... .	.....	... ..	0·26	0·20	0·35	4	0·88	3·50	3·06	49·81	28·50
		Naogaon ...	0·09	... ..	.....	... ..	.....	0·30	0·09	3	0·48	1·16	3·42	36·96	5·16
		Lalpore ...	.....	... ..	.....	0·33	.....	0·30	0·14	3	0·77	0·82	?	25·30	?
		Manda ...	0·60										?		
	Maldah ..	Maldah ...	0·47	0·32	... ..	.....	0·35	1·13	0·03	5	2·30	3·96	2·69	28·61	27·70
		Chanchal ...	2·93	0·39	... ..	... ..	... ..	0·45	0·09	4	3·86	5·09	3·70	30·56	31·63
		Gajol ...	0·66	0·47	.....	10·40	... ..	0·20	.....	4	1·74	3·44	?	35·99	?
		Sibganj ...	0·41	0·19	... ..	.....	0·07	0·41	... ..	4	1·08	2·15	?	36·00	?
	Dinagepore .	Mohadebpore	.....	... ..	.....	.....	.....	0·32	... ..	1	0·32	6·89	3·45	31·80	31·45
		Churamon ..	1·72	0·83	.....	... ..	.....	0·54	0·03	4	3·12	4·72	2·39	41·56	29·01
		Raigunge ...	4·90	1·07	... ..	.....	.....	0·45	0·12	4	6·54	8·54	2·67	47·52	28·98
		Dinagepore .	4·20	0·04	0·45	... ..	.....	... ..	.....	3	4·69	5·33	3·76	45·50	28·68
		Balcorghat	1·66	0·42	.....	... ..	... .	0·31	0·02	4	2·41	3·86	3·10	37·86	31·16
		Thakoorgaon	4·09	1·03	. ...	.....	. ..	0·43	.....	3	5·55	6·00	?	54·65	?
	Rungpore ..	Bnawanigunge (*Gyabanda*)	1·61	... ..	. ...	.....	.....	0·34	0·42	3	2·37	4·69	2·30	47·41	35·31
		Rungpore ...	0·73	0·17	1·03	. ....	.....	... ..	.....	3	1·93	2·38	3·03	44·16	45·50
		Kurigram ...	1·10	0·25	0·05	.....	.....	.....	.....	3	1·40	2·45	2·98	49·97	18·25
		Bagdogra (*Nilphamari*).	0·17	1·07	.....	.....	0·06	... ..	.....	3	1·60	2·76	4·09	55·75	52·69
		Ulipore ...	1·58	1·42	.....	.....	.....	.....	.....	2	3·00	5·46	?	43·71	?
	Julpigoree ...	Julpigoree ..	2·61	0·56	0·25	.....	....	0·13	.....	4	3·35	3·41	6·33	89·04	68·47
		Alipore Dooar	0·92	0·08	0·27	.....	0·07	1·18	0·27	6	2·79	3·39	?	100·45	?
		Fallacotta ...	0·21	0·18	... ..	.....	.....	.....	0·21	3	0·60	0·96	?	87·85	?
		Debiganj ...	3·83	.....	.....	.....	.....	0·30	0·10	3	4·23	4·49	?	60·67	?
	Cooch Behar ..	*Bhagalpore* (*Nagrakatta*).	0·03	0·92	0·10	.....	.....	0·57	0·63	5	2·45	3·34	5·40	66·18	58·66
		Dinhatta ..	0·81	0·28	1·61	.....	... ..	0·48	0·02	5	3·20	5·61	5·45	87·52	74·76
		Cooch Behar ...	2·18	0·50	.....	.....	0·18	0·05	0·06	5	3·27	5·82	6·51	84·10	62·87
		Mickilgunge ...	3·00	.....	.....	.....	.....	1·28	....	2	4·28	5 30	5 89	95·24	68·13
		Matabhanga ...	0·16	0·09	... ..	.....	.....	4·27	.....	3	5·42	7·13	10·53	118·91	117·49
	Darjeelin Hill	Buxa .	2·20	0·61	1·94	.....	.....	0·42	2·15	5	7·32	7·97	8·29	112·97	6·16
		Silliguri ...	2·44	0·28	0 48	.....	... ..	0·10	0·15	5	3·45	4·45	7·09	103·24	64·08
		Darjeelins ...	3 11	1·88	0·36	0·03	.....	1·01	0·71	6	7·10	9·84	5·84	79·98	51 15
		Kalimpong ..	1·89	0·74	0·20	.....	.....	0·91	0·39	5	4·19	4·66	?	128·88	?
		Kurseong ...	3·40	0·88	2·70	.....	.....	2·00	0·52	5	9·50	9·90			
H BEHAR	Purneah ...	Kissengunge ...	1·80	2·60	0·20	.....	.....	2·07	... ..	4	6·76	7·24	3·96	55·12	39·88
		Arrareah ...	0·48	3·17	... ..	.....	.....	1·27	0·29	4	5·21	5·21	3·04	40·02	35·16
		Purneah ...	2·24	0·47	0·21	.....	.....	0·45	.....	4	3·36	4 77	4·07	47 43	32·48
		Gondwara ...	5·30				1·10	...	.....				?	?	?
		Balarampore	0·60	1·00	.....	.....	*3	0·50		3	9·30	12·45	?	53·04	?
		Matiari ...	...	0·14	0·15	.....	.....	0·24	0·09				?	?	?
		Kalaganj ...	2·50	0·26	0 50	.....	.....	0·25	.....	5	3·59	3·84	3·25	62·13	?
	North Bhagulpore	Maddapore ...	1·42	.....	.....	.....	0 75	... .	.....	3	2·12	2·77	3·40	42·08	23 78
		Soopool ...	0·18	1·12	0·15	.....	... ..	0·28	0·29	4	1·73	1·85	?	37·95	16·00
		Protabganj ...	.....	0·94	0 71	.....	0·19	.....		4	2·13	2·44		30·05	?
	Durbhunga ...	Tajpore ...	0·50	0·04	0·12	3·87	.....	0·35	... ..	5	4·78	4·42	2·76	35·85	24·51
		Durbhunga ...	1·30	0·20	0·13	2·18	.....	0·24	... ..	5	4·05	4·05	2·08	39·38	24·05
		Madhubani ...	0·82	0·35	0 84	0·74	.....	1·36	.....	5	4·11	4·11	2·83	42·64	23·77
		Hahera ...	0·21	.....	0·17	0·12	... ..	0·43	.....	4	0 93	0 93	?	35·69	?
		Koshera ...	0·10	.....	0·73	.....	0·70	... ..	.....	3	1·53	3·16	?	29·62	?
	Mozufferpore	Sitamarhi ...	0·49	0·41	0·26	.....	.....	1·04	0·07	5	2·37	2·39	2·73	30·71	23·82
		Mozufferpore	2·68	0·07	0·07	0·72	.....	1·43	0 07	6	5·64	5·64	2 87	38·66	23·65
		Hajipore ...	0·70	0·74	.....	0·37	.....	0·67	.....	4	2·48	3·13	3·19	32·80	22·95
		Pare ...	1·84	0·56	.....	2·80	.....	1·54	.....	4	6·74	0·75	?	30·19	?
		Mahua ...	.....	0·00	0·24	0·44	.....	0·15	0·12	5	1·85	3·29	?	32·68	?
		Sishar ...	0·60	.....	...	.....	.....	.....	.....	1	0·60	0·60	?	30·28	?
		Pusri ...	0·50	0·80	0·20	0·30	.....	.....	.....	4	1·80	1·99	?	34·60	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 8th of August 1890—co

Meteorological Division.	District.	Station.	Rainfall. Saturday, 2nd August.	Sunday, 3rd August.	Monday, 4th August.	Tuesday, 5th August.	Wednesday, 6th August.	Thursday, 7th August.	Friday, 8th August.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.
North Behar —*concluded.*	Chumparun...	Motihari ...	0·95	0·11	0·86	.....	.....	0·24	0·56	5	2·22	2·22	3·23	44·50
		Bettiah ...	2·08	1·10	0·34	0·06	.....	.....	.....	4	3·58	3·58	3·06	40·77
		Bagaha ...	0·16	0·55	1·12	0·41	.....	0·01	0·04	6	2·29	2·32	?	49·47
		Burhurwa ...	1·04	0·01	0·87	0·12	.....	.....	.....	4	2·04	2·07	?	39·04
	Saran ...	Gopalgunge ...	3·87	1·26	3·25	.....	.....	.....	.....				3·03	
		Newan ..	0·90	2·13	1·09	0·34	0·02	0·49	0·05	7	4·92	6·37	3·25	38·32
		Chuprah ...	0·27	0·10	0·58	... ..	1·50	.....	.....	4	2·45	2·82	2·78	33·57
South Behar	Shahabad	Buxar .	0·70	2·36	0·14	0·69	.....	0·02	.....	5	3·91	3·96	2·02	29·58
		Dehree ...	0·05	0·33	0·03	.....	0·10	.....	.....	4	0·51	0·61	3·35	23·86
		Bhabooah ...	0·05	0·12	0·28	... ..	0·25	.....	0·05	5	0·75	1·39	3·08	23·70
		Sasseram ...	0·65	0·46	0·05	0·06	0·08	... ..	0·04	6	1·34	1·45	3·66	25·22
		Arrah ...	1·52	0·85	1·02	0·80	.....	0·60	0·03	6	4·82	5·97	3·01	47·79
		Mohaniah ...	.....	.....	0·81	.....	.....	.....	0·10	2	0·90	0·95	?	21·11
	Gya ...	Aurungabad...	0·08	0·13	... ..	... .	1·25	.....	0·41	4	1·87	1·87	3·55	25·95
		Gya ...	0·16	0·64	.....	0·07	0·02	.....	... ..	4	0·87	1·67	3·19	34·40
		Nowadah ...	0·23	.....	0·04	...	0·21	0·45	0·08	5	1·01	1·38	3·20	37·13
		Jehanabad ...	0·06	1·31	... ..	0·00	.....	0·18	.....	4	1·61	2·34	3·64	36·00
		Arwal ...	3·20	0·20	2·10	.....	0·20	.....	.....	4	5·70	6·20	?	
		Daudnagar ...	.....	... .	.....	.....	0·10	.....	.....	1	0·10	1·10	?	17·10
		Sherrghati ...	.....	2·20	.....	0·10	.....	... ..	.....	2	2·30	3·30	?	19·97
		Rajauli ..	.....	0·45	.....	2·95	1·00	0·26	0·15	5	4·81	5·21	?	31·02
		Pakri Barawan	.....	... ..	.....	.....	.....	2·60	.....	1	2·60	3·00	?	36·48
	Patna ...	Patna ...	2·18	0·96	.....	0·35	.....	0·30	.....	4	3·79	3·79	3·05	30·47
		Dinapore ...	0·60	0·40	0·90	.....	0·60	0·99	... ..	5	3·49	3·47	3·13	27·80
		Behar ...	1·58	0·18	.....	.....	0·03	1·56	0·05	5	3·40	3·52	2·99	31·39
		Barrh ...	1·24	0·50	.....	.....	.....	0·20	0·50	4	2·44	2·86	2·84	24·57
		Bickram ...	0·84	1·07	0·02	2·57	.....	0·23	.....	5	4·73	5·22	?	41·60
		Hilsa ...	0·90	0·19	0·05	.....	.....	1·30	0·05	5	2·49	2·97	?	33·34
	Monghyr ...	Begoosarai ...	0·22	0·12	.....	0·26	.....	0·26	.....	4	0·86	2·26	2·65	27·86
		Monghyr .	0·64	0·11	.....	... ..	.....	.....	... ..	2	0·75	2·60	3·30	38·35
		Jamul ...	0·11	0·60	.....	0·13	... ..	0·32	.....	4	1·16	1·29	3·71	42·43
		Gogri ...	4·42	1·32	.....	.....	.....	.....	.....	2	5·74	7·99	?	51·34
		Sheikpura ...	1·30	0·40	.....	1·50	.....	0·30	.....	4	3·50	6·60	?	33·43
	South Bhagulpore	Bhagulpore ...	2·19	1·05	.....	.....	0·03	0·08	.....	4	3·35	6·84	3·40	37·09
		Banka .	0·44	0·49	.....	.....	0·67	0·47	0·08	5	2·15	3·16	3·34	28·12
		Kulgong ...	1·02	0·40	.. ...	.....	.....	0·08	0·10	4	2·20	2·92	?	40·68
		Bangaon ...	4·45	.....	.....	.....	.....	.....	.....	1	4·45	4·45	?	45·23
	Sonthal Pergunnahs.	Rajmehal ...	0·38	0·37	.. ...	.....	0·41	0·11	0·15	5	1·42	4·90	2·36	30·96
		Godda ...	0·58	0·25	.....	.....	0·30	0·16	.....	4	1·23	2·73	2·99	33·87
		Pakour ..	0·68	0·32	.....	.....	2·51	0·76	0·12	5	5·39	6·37	2·34	45·76
		Nya Doomka	4·28	0·09	.....	0·11	0·70	0·39	0·03	6	6·56	8·25	4·01	43·30
		Deoghur ...	0·05	0·09	.....	... ..	0·82	0·34	0·14	5	1·44	2·44	4·05	32·50
		Jamtara ...	0·09	0·08	... ..	... ..	0·46	0·27	0·28	5	1·18	1·40	3·20	40·21
		Mohagama ...	0·35	.....	0·68	0·40	... ..	.....	0·15	4	1·67	3·82	?	
		Nanmat ...	1·56	.....	.....	.....	0·16	.....	.....	2	1·72	2·63	?	20·20
Chutia Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	.....	0·15	.....	.....	0·23	0·15	1·63	4	2·16	2·36	3·97	38·32
		Hazaribagh ...	.....	0·51	.....	1·19	0·17	0·03	0·05	5	1·95	2·00	4·33	31·87
		Semtagurah ..											2·95	
		Mahudi Hills											3·59	
		Jhoomra Hills	1·20	.....	.....	1·20	.....	0·10	0·40	4	2·90	2·90	4·88	37·70
		Barhi ...	0·45	0·40	.....	.....	.....	.....	...	2	0·85	3·35	?	30·07
		Chatra ...	.....	... ..	.....	0·10	0·70	0·03	... ..	3	0·83	0·87	?	26·29
		Karagdeha ...	.....	0·23	.. ...	.....	0·05	0·40	0·02	4	1·60	1·77	?	36·41
		Ramghar ...	.....	.....	.....	.....	1·40	.....	0·50	2	1·90	2·50	?	24·56
	Lohardugga ...	Lohardugga ...	0·03	.....	.....	.....	2·28	0·45	0·65	4	4·01	4·23	4·68	27·55
		Ranchi ...	... ..	0·14	.....	... ..	0·95	0·15	0·33	4	1·56	2·76	4·87	26·74
		Palamow ...	0·16	0·08	... ..	0·40	1·25	0·10	0·10	6	2·09	2·14	3·48	20·01
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	21·80
		Balumat ...											?	
		Hossenabad...	... ..	.....	.....	.....	.....	1·09	.....	1	1·09	1·09	?	18·69
		Garwah ...	.....	.....	.....	2·75							?	
	Singhbhoom ...	Chyebassa ...	0·12	0·18	.....	.....	.....	0·03	0·45	2	0·78	0·24	4·71	22·49
		Chakradharpore.											?	
		Ghatsilla ...	.....	.....	.....	.....	1·14	0·25	0·08	3	1·47	1·47	?	32·89
		Baharagora...	0·38	.....	.....	.....	... ..	1·75	0·30				?	
	Manbhoom ...	Purulia ...	0·12	.....	.....	.....	0·43	0·09	0·05	4	0·69	0·75	4·44	27·57
		Gobindpore ...	... .	0·28	.....	.....	0·22	0·28	0·42	4	1·20	1·24	4·04	23·49
		Raghunathpore.	.....	.....	.....	.....	.....	1·28	1·80	2	3·08	3·08	?	37·28
		Barrabhoom	.....	.....	.. ...	. ...	.....	0·05	.....	1	0·05	0·05	?	30·24
		Jhalda ...	.....	.....	.....	. .	0·52	.....	1·28	2	1·80	2·42	?	31·03
		Chas ...	.....	.....	.....	...	0·68	0·14	0·35	3	1·17	1·07	?	29·51

Explanation.—.... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of th are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 12th August* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 8TH OF AUGUST 1890.

THE features of interest in the meteorology of the past week are—

1. The high pressure which has prevailed throughout, giving an average excess of nearly a tenth of an inch in the east and north of the province, of a little over a twentieth in part of South-West Bengal and Chutia Nagpur, and about four-hundredths in Orissa.

2 The general low temperature, which, however, was more pronounced at the beginning and end of the week, a rise taking place during the partial break of the rains which spread over the province.

3. The scattered rainfall in Lower Bengal during the first few days and later in the northern districts.

4. A shallow depression, which, notwithstanding the prevailing high pressure, remained for some days, without causing any unsettled weather, in the neighbourhood of the Orissa coast.

At the commencement of the week pressure was rising, and rainfall had almost ceased in Orissa, Chutia Nagpur, and South-West and East Bengal with the exception of Nuddea, Dacca, and Mymensingh, but in North Bengal and Behar very heavy rain continued to fall. With the steadily rising pressure which continued without a break till the middle of the week, the monsoon current grew weaker in the northern districts, and rainfall rapidly diminished in amount, while wind velocity was generally below the average. The shallow depression in the north-east corner of the Bay first appeared on the 2nd to the south of Gopalpore, where a northerly wind was blowing, and apparently without deepening it kept that position till the 4th, the cyclonic circulation including the winds in its vicinity only. Pressure remained over 29·6 inches, but on the 6th a slow fall was general in the west of the Bay, when pressure, still lowest at Gopalpore was slightly under that amount On the 7th the depression had passed away, but a small whirl still appeared in the north-west corner. This moved over the north of Orissa, rain becoming general in the southern districts, but it was still very scattered in Behar and North Bengal. Though there was a partial break in the rains, temperature remained low except about the 5th, when a slight excess obtained except in Behar. After rainfall again set in towards the end of the week, temparature again fell, and on Friday was below the normal by small amounts in all districts.

Pressure—Rose steadily during the early half of the week, but on the 5th a brisk fall occurred in Assam, East Bengal and North Bengal, and a slow to moderate fall elsewhere, after which slow downward changes continued in the western districts and a slow rise elsewhere till the 8th, when a brisk rise in the north-west corner of the Bay gave a more normal distribution there; the small depression which had existed for some days completely disappearing. The largest excess was on the 4th, when it varied from ·1 inch to ·15 inch over nearly the whole of Bengal, but was less than ·1 inch in Chutia Nagpur, Orissa, and Assam.

Temperature—Though not so low as in previous weeks, has on an average been largely below the normal in Behar, slightly below in Chutia Nagpur, North Bengal, and Assam, and almost normal in East Bengal, South-West Bengal, and Orissa. During the break in the rains in the early part of the week, there was an upward tendency in Lower Bengal, resulting in a small excess there, but as heavy general rain continued to fall in Behar, there was still defect of more than 5°. Mean defect for the week in North Behar is 2·1°, in South Behar 1·8°, in North Bengal and Assam ·6°, Chutia Nagpur ·4°, and in the other districts temperature has been practically normal.

Rainfall—As stated above, had become very light and scattered in Lower Bengal at the beginning of the week, but heavy falls were still being received in Behar. The break, however, gradually spread over the province, and by the middle of the week general light rain was falling in the lower districts, and scattered showers in North Bengal and Behar. Scattered rain continued to fall in Orissa, South-West Bengal, Chutia Nagpur, and East Bengal, from the 2nd to the 5th, after which general light rain fell till the end of the week. In the northern districts general rain fell from the 2nd to the 4th, and then the break commencing, scattered showers were received till the 8th with the exception of the 7th, when fairly general rain fell. The mean amounts for the week are all below the normal except in North Behar, where there is excess of 1·3 inches Defect is about 1·3 inches in Orissa, East Bengal, and Chutia Nagpur, ·9 inch in South-West Bengal, ·7 inch in North Bengal, and about half an inch in South Behar.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 8th of August 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	91·9	75·7	86·0	76·7	83·4	0	1·50	2·84	—1·34	3·3	4·3	—1·0	1·90	3·35	28·07	26·46
South-West Bengal ...	93·6	75·7	86·8	76·3	83·5	—0·1	2·09	2·96	—0·87	4·0	4·6	—0·6	2·31	3·62	32·85	28·47
East Bengal	90·3	72·5	86·8	77·0	81·9	—0·2	2·80	4·10	—1·30	4·5	5·6	—1·1	3·20	4·77	46·46	33·91
North Bengal	92·8	74·1	86·8	78·1	82·5	—0·7	2·51	3·21	—0·70	3·6	4·7	—1·1	3·77	3·62	48·96	40·65
North Behar	91·2	72·5	86·8	77·4	82·1	—2·1	4·70	2·70	+1·30	4·5	4·0	+0·5	4·31	3·16	40·09	25·98
South Behar	90·9	73·8	86·4	77·5	82·0	—1·8	2·30	2·74	- 0·44	4·6	4·1	+0·5	3·19	3·27	33·41	23·65
Chutia Nagpur	86·5*	60·9*	83·0*	72·1*	77·6*	—0·4*	2·00	3·33	—1·33	4·3	5·3	—1·0	2·20	4·18	28·88	26·94
Assam	94·6	74·8	86·4	77·4	81·9	—0·6										

* Chyebassa not included.

Meteorological Office, Bengal;
The 12th August 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of July 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29·532		
The average pressure of July from 24 years' registers ...	29·537		
The highest pressure in the month	29·761	3rd	10
The lowest pressure in the month	29·347	20th	16
The range of pressure	0·414		
	Hours.		
The total number of hours of bright sunshine during the month	72·5		
The maximum possible number of hours of sunshine ...	413·1		
	°		
The mean temperature of the month	82·8		
The average temperature of July from 24 years' registers	83·5		
The highest temperature in the month	90·1	18th.	
The lowest temperature in the month	75·2	28th.	
The range of temperature during the month	14·9		
The mean daily range of temperature	9·4		
The greatest range of temperature in one day	12·3	3rd.	
	Per cent.		
The mean humidity of the month	86		
The average humidity of July from 24 years' registers ...	85		
	Inches.		
The mean vapour pressure of the month	0·963		
The average vapour pressure of July from 9 years' registers ...	1·002		
The mean cloud proportion of the month	7·91		
The average cloud proportion of July from 13 years' registers	8·02		
The total rainfall of the month	10·29		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	10·05		
The average fall of July from 48 years' registers	12·84		
The greatest fall in 24 hours	1·86	5th.	
	Days.		
The number of rainy days in the month	24		
The average number of rainy days in July from 24 years' registers	25		
	°		
The mean maximum equilibrium temperature of solar radiation during the month	145·3		
The mean difference of sun and air temperatures	58·3		
The greatest sun temperature	156·9	19th.	
The greatest excess of sun over air temperature	69·0	31st.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	76·6		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	1·3		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	3·2	1st.	
	Miles.		
The mean movement of the wind per day	100·3		
The greatest movement of the wind in one day	282·0	2nd.	
The greatest movement of the wind in one hour	22·0	1st 11 to noon.	

The number of hours with winds from each of the 8 points—

N. 0, N.E. 19, E. 51, S.E. 111, S. 203, S.W. 235, W. 53, N.W. 7, Calm 65.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 8 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0·6 higher; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 11th August 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 3rd to 9th August 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fair.	Temperature. Mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Mean wet bulb.	Hygrometry. Vapour pressure.	Hygrometry. Dew point.	Hygrometry. Humidity.	Wind. Prevailing direction.	Wind. Miles recorded.	Rain.	Weather.
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Aug.	3rd	151·2	8·4	29 647	83·5	89 6	12·4	77 2	78·6	0·913	76·5	79	ESE and calm ...	54	Nil	Partially clou lr.
,,	4th	155·7	9·4	·643	84 2	89·8	12 0	77 8	79·5	·946	77·5	80	E, calm and variable	39	0·03	Partially clou d.
,,	5th	153 3	5 3	·610	80 8	89·7	14·5	75·2	78·2	·932	77·1	89	E, calm and variable	41	1·74	Chiefly clou d, t, p, o, g.
,,	6th	147·5	1·5	·588	81·7	86 4	10·2	76·2	78 9	·958	77·8	88	ENE, ESE and calm	53	0·07	Chiefly clou o, g, d.
,,	7th	140 5	1·6	·593	81 6	85 8	9·9	75 9	79 0	·960	78·0	89	ESE and SE ...	112	1·13	Chiefly clou o, d, p.
	8th	148·3	2·7	·611	82·3	86·4	10·3	76·1	79 4	·966	78·2	87	SSE ...	57	0·11	Chiefly clou o.
,,	9th	153 2	4 5	·578	81·6	88·0	9·8	78 2	78 6	·939	77·3	87	E, calm and variable	53	Nil	Partially clou

		Inches.
The mean pressure of the seven days		29·610
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·586
		Hours.
The total number of hours of bright sunshine		33·4
The maximum possible number of hours of sunshine		91·2
		°
The mean temperature of the seven days		82·2
The average temperature of the corresponding period for 24 years, S.-G.'s Office		83·1
The extreme variation of temperature		14·6
The maximum temperature		89 8
		Miles.
The highest velocity of the wind in one hour		13
		lbs.
The highest pressure of wind on one square foot ... ... Approximately		3
		%
The mean relative humidity		86
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		86
		Inches.
The total fall of rain from 3rd to 9th August 1890		3 08
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		2·69
The total fall from 1st January to 9th August 1890		34·25
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		38·44

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograp and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All t thermometers are verified, and the readings have been corrected to a standard constructed and verified at t Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four fe above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, former at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; t, thunder; p, passing temporary showers; lr. lightning reflectio

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 11th August 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of July 1890.

	Inches.	Date.
The mean pressure at 10 A.M. during the month	29·581	
	°	
The mean temperature at 10 A.M. during the month	84·3	
The highest temperature during the month	91·6	3rd.
The lowest temperature during the month	75·8	28th.
The absolute range of temperature during the month	15·8	
The mean daily range of temperature during the month ...	10·2	
The greatest range of temperature in one day during the month ...	12·8	3rd.
	%	
The mean 10 A.M. humidity during the month	84	
	Inches.	
The mean 10 A.M. vapour pressure during the month	·992	
The total rainfall of the month	10·33	
The greatest fall in 24 hours	4·17	10th.
	Days.	
The number of rainy days in the month	19	

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 4th August 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 3rd to 9th August 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	HYGROMETRY. Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
August ...	3rd ...	29·704	84·7	91·5	13·7	77·8	87·4	80·5	·949	77·6	73	
,, ...	4th ...	·692	85·4	92·0	13·2	78·8	87·6	81·3	·984	78·7	75	
,, ...	5th ...	·644	86·4	91·8	12·8	79·0	86·6	81·5	1·008	79·5	80	0·15
,, ...	6th ...	·637	82·0	87·3	10·5	76·8	83·1	79·5	·961	78·0	85	2·30
,, ...	7th ...	·651	82·0	87·0	9·9	77·1	83·4	80·0	·979	78·6	85	0·44
,, ...	8th ...	·671	82·4	88·0	11·2	76·8	82·1	79·5	·975	78·4	89	0·39
...	9th ...	·639	84·4	90·0	11·2	78·8	86·1	81·5	1·015	79·7	82	..

	Inches.
The mean 10 A.M. pressure of the seven days	29·663
The mean temperature of the seven days	83·8
The extreme variation of temperature	15·2
The maximum temperature	92·0
	%
The mean 10 A.M. relative humidity of the seven days	81
	Inches.
The total fall of rain from 3rd to 9th August 1890	3·28

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 11th August 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 26th July 1890.

Births.

The births registered during the week ending with Saturday, the 26th July 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 18·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 2·7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	26·9	20·7	15·9	19·8	21·2	20·9	18·2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 5th July 1890.	12th July 1890.	19th July 1890.	26th July 1890.	Towns.	Weeks ending— 5th July 1890.	12th July 1890.	19th July 1890.	26th July 1890.
Burdwan	16·8	13·7	30·5	12·3	Naraingunj	4·1	20·7	16·6	29·0
Midnapore	17·0	23·2	29·4	7·7	Chittagong	42·3	28·2	4·7	14·1
Hughli and Chinsurah	20·3	18·1	32·8	23·0	Comillah	34·7	3·8	7·7	15·4
Serampore	25·5	13·7	31·4	23·6	Patna City	10·1	11·4	11·4	12·7
Utterpara	37·7	...	28·3	18·9	Gya	14·3	29·4	26·0	33·5
Howrah	21·2	17·2	14·3	15·5	Arrah	14·4	23·9	17·9	19·1
Bali	10·5	28·1	3·5	14·0	Mozufferpore	13·4	18·2	15·8	13·4
Kishnagar	1·9	17·0	15·1	11·4	Durbhanga	13·4	22·8	18·9	27·5
Ranaghat	18·0	18·0	12·0	12·0	Chupra	7·0	12·1	20·1	11·1
Santipore	12·3	10·5	19·3	10·5	Bhagulpore	20·9	19·9	25·3	18·1
Jessore	6·1	6·1	18·4	6·1	Monghyr	14·5	38·9	33·4	41·6
Rampore Beauleah	34·2	18·4	23·6	18·4	Purneah	17·3	3·5	6·9	20·8
Darjiling	14·8	37·0	22·2	22·2	Poori	23·1	14·7	10·5	18·9
Dacca	11·0	9·7	15·6	9·7	Total ...	16·2	18·2	19·1	18·2

It will be seen that last week the highest birth-rate was returned from Monghyr (41·6), and the lowest from Jessore (6·1).

Deaths.

The deaths registered during the week under review correspond to an annual rate of 23·1 per 1,000 of the population. The rate of the week is 6·1 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	38·5	28·9	28·6	19·2	26·2	29·2	23·1

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 5th July 1890.	12th July 1890.	19th July 1890.	26th July 1890.	Towns.	Weeks ending— 5th July 1890.	12th July 1890.	19th July 1890.	26th July 1890.
Burdwan	16·8	22·9	19·8	27·5	Naringanj	8·3	24·6	16·6	16·6
Midnapore	21·7	23·2	35·6	17·0	Chittagong	37·6	39·9	18·8	18·8
Hughli and Chinsurah	23·0	21·3	19·7	24·6	Comillah	46·2	26·9	26·9	38·5
Serampore	29·4	29·4	45·1	39·3	Patna City	15·3	14·9	14·6	18·8
Utterpara	9·4	18·9	56·6	47·2	Gya	36·0	32·1	32·1	37·6
Howrah	8·6	11·5	16·0	13·7	Arrah	31·1	35·9	23·9	39·5
Bali	24·6	3·5	7·0	21·1	Mozufferpore	31·6	31·6	29·2	32·8
Kishnagar	13·2	3·8	3·8	11·4	Durbhanga	17·3	23·6	32·3	25·2
Ranaghat	6·0	18·0	24·0	12·0	Chupra	8·0	21·1	16·1	18·1
Santipore	14·0	8·8	17·5	15·8	Bhagulpore	15·4	15·4	10·0	22·6
Jessore	18·4	30·6	42·8	12·2	Monghyr	9·0	25·2	26·2	25·3
Rampore Beauleah	15·8	10·5	5·2	23·6	Purneah	10·4	13·9	10·4	10·4
Darjiling	51·9	22·2	37·0	22·2	Poori	38·0	65·0	44·1	35·7
Dacca	21·4	15·6	23·4	15·6	Total ...	20·1	21·6	22·0	23·1

It will be seen that last week the highest mortality occurred in the town of Utterpara (47·2), and the lowest in Purneah (10·4).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Arrah	14·3	Comillah	34·7	Utterpara	37·7	Gya	15·0
Chupra	11·1	Rampore Beauleah	21·0	Poori	21·0	Mozufferpore	13·4
Midnapore	9·3					Serampore	11·8
Serampore	7·8					Hughli and Chinsurah	11·5
Mozufferpore	6·0					Monghyr	10·8
Durbhanga	5·5					Burdwan	10·7
Patna City	3·9						
Gya	2·7						

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·3 from cholera, against 2·5 per 1,000 in the preceding week; ·1 from small-pox, against ·4; 10·2 from fever, against 8·6; 2·4 from bowel-complaints, against 3·1; ·9 from injury, against ·8; and 6·2 from other causes, against 6·6 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	24·0	Christians	14·9	Under 1 year	21·0
Females	22·2	Hindus	23·3	1 and under 5 years	28·5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	108	Mahomedans	23·1	5 „ 10 „	15·5
				10 „ 15 „	15·7
				15 „ 20 „	9·6
				20 „ 30 „	11·3
				30 „ 40 „	14·5
				40 „ 50 „	17·4
				50 „ 60 „	23·5
				60 years and upwards	51·6

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 11th August 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 26th July 1890.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.															Sex.			
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.												
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	*Total.*	Males.	Females.	*Total.*	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths. Males.	Deaths. Females.	Ratio per 1,000 of Population per annum. Males.	Ratio per 1,000 of Population per annum. Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	5	3	*8*	7·6	4·6	*12·2*	166	..	...	7	2	2	7	*18*	...	...	10·7	3·0	3·0	10 7	*27·5*	19·8	10	8	28·9	26·0	111
Midnapore ...	Midnapore ...	16,927	16,633	33,560	3	2	*5*	4·6	3·1	*7·7*	150	6	...	2	1	...	2	*11*	9·3	...	3·1	1·5	...	3·1	*17·0*	35·6	6	5	18·4	15·6	118
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	4	10	*14*	6·6	16·4	*23·0*	40	...	...	7	...	1	7	*15*	...	...	11·5	...	1·6	11·5	*24·6*	19·7	7	8	23·0	26·3	87
Serampore ...	Serampore ...	13,559	12,937	26,496	8	9	*12*	5·9	17·7	*23·6*	33	4	...	7	3	...	6	*20*	7·8	...	13·7	5·9	...	11·8	*39·3*	45·1	14	6	53·7	24·1	222
	Utterpara	3,046	2,464	5,510	1	1	*2*	9·4	9·4	*18·9*	100	...	...	...	4	...	1	*5*	...	...	...	37·7	...	9·4	*47·2*	56·6	3	2	51·2	42·2	121
Howrah ...	Howrah	53,153	37,660	90,813	13	14	*27*	7·4	8·0	*15·5*	93	1	...	8	3	2	10	*24*	·6	...	4·6	1·7	1·1	5·7	*13·7*	16·0	14	10	13·7	13·8	99
	Bali	7,836	6,979	14,815	2	2	*4*	7·0	7·0	*14·0*	100	...	...	5	...	...	1	*6*	...	...	17·5	...	...	3·5	*21·1*	7·0	6	...	39·8	...	No female death.
Nadiea ...	Kishnagar ...	13,263	14,214	27,477	3	3	*6*	5·7	5·7	*11·4*	100	...	...	4	...	1	1	*6*	...	...	7·6	...	1·9	1·9	*11·4*	3·8	4	2	15·7	7·3	215
	Ranaghat	4,028	4,655	8,683	1	1	*2*	6·0	6·0	*12·0*	100	...	...	1	...	1	...	*2*	...	...	6·0	...	6·0	...	*12·0*	24·0	2	...	25·8	...	No female death.
	Santipore	13,708	15,979	29,687	5	1	*6*	8·8	1·7	*10·5*	500	2	...	6	1	...	...	*9*	3·5	...	10·5	1·7	...	...	*15·8*	17·5	4	5	15·2	16·3	93
Jessore ...	Jessore	4,830	3,665	8,495	1	...	*1*	6·1	...	*6·1*	No female birth.	...	...	2	...	...	...	*2*	...	...	12·2	...	...	...	*12·2*	42·8	2	...	21·5	...	No female death.
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	5	2	*7*	13·1	5·3	*18·4*	250	1	...	8	...	...	...	*9*	2·6	...	21·0	...	...	...	*23·6*	5·2	5	4	24·2	23·0	105
Darjiling ...	Darjiling	4,579	2,439	7,018	2	1	*3*	14·8	7·4	*22·2*	200	...	...	2	1	...	...	*3*	...	...	14·8	7·4	...	...	*22·2*	37·0	2	1	22·7	21·3	106
Dacca ...	Dacca	42,782	37,379	80,161	4	11	*15*	2·6	7·1	*9·7*	36	...	...	12	1	1	10	*24*	...	...	7·8	·6	·6	6·5	*15·6*	23·4	7	17	8·5	23·6	36
	Naraingani ...	7,605	4,956	12,561	3	4	*7*	12·4	16·6	*29·0*	75	...	...	1	...	...	3	*4*	...	...	4·1	...	...	12·4	*16·6*	16·6	2	2	13·7	21·0	65
Chittagong ...	Chittagong ...	13,340	8,790	22,130	3	3	*6*	7·0	7·0	*14·1*	100	...	...	6	1	...	1	*8*	...	...	14·1	2·3	...	2·3	*18·8*	18·3	3	5	11·7	29·6	39
Tipperah ...	Comillah	8,153	5,353	13,506	1	3	*4*	3·8	11·6	*15·4*	33	...	...	9	1	...	...	*10*	...	...	34·7	3·9	...	...	*38·5*	26 9	4	6	25·5	58·3	43
Patna	Patna City ...	78,762	81,475	160,237	23	16	*39*	7·5	5·2	*12·7*	143	12	1	27	5	2	11	*58*	3·9	·3	8·8	1·6	·6	3·6	*18·8*	14·6	32	26	21·2	16·6	127
Gya	Gya	38,290	37,831	76,121	30	19	*49*	20·5	13·0	*33·5*	157	4	...	29	...	...	22	*55*	2·7	...	19·8	...	...	15·0	*37·6*	32·1	27	28	36·7	38·5	95
Shahabad ...	Arrah	20,960	22,505	43,465	12	4	*16*	14·3	4·8	*19·1*	300	12	...	16	1	2	2	*33*	14·3	...	19·1	1·2	2·4	2·4	*39·5*	23·9	15	18	37·2	41·6	89
Mozufferpore..	Mozufferpore ...	23,084	19,658	42,742	6	5	*11*	7·3	6·0	*13·4*	120	5	...	5	5	1	11	*27*	6·0	...	6·0	6·0	1·2	13·4	*32·8*	29·2	15	12	33·8	31·7	106
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	18	17	*35*	14·1	13·4	*27·5*	105	7	...	14	3	2	6	*32*	5·5	...	11·0	2·4	1·6	4·7	*25·2*	32·3	15	17	23·1	27·3	84
Sarun	Chupra	25,116	26,554	51,670	4	7	*11*	4·0	7·0	*11·1*	57	11	1	6	...	...	...	*18*	11·1	1·0	6·0	...	...	...	*18·1*	16·1	12	6	24·8	11·7	212
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	11	9	*20*	10·0	8·1	*18·1*	122	...	..	14	1	...	10	*25*	...	...	12·7	·9	...	9·0	*22·6*	10·0	15	10	26·3	18·7	140
Monghyr ...	Monghyr	28,154	29,366	57,520	24	22	*46*	21·7	19·9	*41·6*	109	1	...	6	6	3	12	*28*	·9	...	5·4	5·4	2·7	10·8	*25·3*	26·2	19	9	35·1	15·9	220
Purneah ...	Purneah	8,463	6,553	15,016	4	2	*6*	13·9	6·9	*20·8*	200	1	...	2	...	...	...	*3*	3·5	...	6·9	...	...	...	*10·4*	10·4	...	3	...	23·8	No male death.
Poori	Poori	13,247	11,537	24,784	4	5	*9*	8·4	10·5	*18·9*	80	...	1	2	10	...	4	*17*	...	2·1	4·2	21·0	...	8·4	*35·7*	44·1	9	8	35·3	38·1	96

MORTALITY ACCORDING TO—

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.										Age.																					
		Deaths among—					Ratio per 1,000 of Population per annum.					Deaths.										Ratio per 1,000 of Population per annum.											
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	16	2	...	.	...	35·1	10·1	.	...	4	...	3		2	4	2	1	1	1	315·2	...	66·9	...	33·3	26·3	15·1	11·8	21·2	35·1
Midnapore .	Midnapore .	...	8	3	..	..	..	16·0	21·6	...	.	...	1	1	1	1	2	1	2	.	2	...	22·1	13·9	17·1	16·5	14·2	9·4	27·9	...	56·8
Huch i ..	Hushli and Chinsurah	...	13	2	...	...	..	26·7	16·9	...	...	7	1	2	...	...	5	.	1	...	1	453·3	23·4	36·0	...	..	25·1	...	12·5	...	25·1
Serampore ...	Serampore ..	...	19	1	...	..	..	39·2	55·4	...	...	2	...	..	3	...	2	5	1	2	5	145·5	...	...	70·3	...	19·3	52·3	15·4	54·3	186·9
	Utterpara	...	4	1	...	...	...	30·1	282·6	..	..		..	.	...	1	2	..	...	1	1	...	...	...	...	118·2	90·4	...	...	141·3	200·0
Howrah	Howrah	..	17	7	...	...	..	13·0	17·7	...	...	11	2	3	...		1	3	1		3	277·3	18·8	24·8	...	...	2·3	8·1	4·4	...	41·6
	Sali	...	6	...	...	...	..	23·3	.	...	...	3	1	1	...	...	..	...	1	...	.	450·9	52·1	48·8	...	...	...	...	26·9	...	...
Nuddea ...	Kishnagar ...	...	2	4	...	...	...	5·6	25·1	...	...	3	..	..	1	...	..	2	..	...	...	3 4·5	...	...	18·5	...	...	24·3	...	...	...
	Ranaghat	...	2	...	...	...	..	14·2	..	..	...	...	...	...	1	..	...	..	.	1	..	...	...	...	59·9	...	...	...	...	71·8	...
	Santipore	...	7	2	...	...	...	17·6	11·6	...	...	...	1	...	...	...	...	2	2	...	4	.	17·9	...		...	...	24·0	29·6	..	105·9
Jessore ..	Jessore	...	1	1	...	...	..	11·5	13·6	...	...	...	1	...	.	...	...	...	1	...	...	...	105·3	...	...	...	..	...	49·3	.	.
Rajshahye ...	Rampore Beauleah	...	5	4	...	...	...	26·2	21·2	...	...	..	...	1	1	1	...	2	..	4	...	...	..	...	28·9	31·3	12·5	...	42·4	...	216·0
Darjiling ...	Darjiling	1	2	...	...	...	325·9	22·6	...	...	..	...	2	...	...	...	..	1	...	...	...	...	161·7	...	...	...	...	36·3	...	...	...
Dacca	Dacca	...	11	13	...	..	...	14·2	17·2	...	...	6	..	1	1	1	4	1	2	3	5	164·4	...	5·2	6·5	7·1	13·6	4·5	12·4	32·9	46·7
	Naraingauj ..	..	2	2	...	..	...	16·4	16·9	..	..	2	1	1			..	...	..	...	..	372·8	45·6	59·4	...	...	...	...	...	...	...
Chittagong ..	Chittagong ..	...	...	8	...	...	..	..	27·2	..	...	1	2	1	..	1	2	...	...	...	1	92·4	52·9	20·8	...	21·5	22·5	...	..	..	65·3
Tipperah ..	Comillah	...	2	8	2	...	...	17·5	56·3	...	..	..	1	..				.	..	1	7		39·8	...	...	...	...	...	39·6	64·9	536·9
Patna	Patna City ..		43	15	...	...	..	19·8	19·1	...	...	5	8	6	5	2	8	9	3	5	7	66·3	28·5	15·5	18·1	9·3	14·4	20·1	8·3	18·4	26·1
Gya ...	Gya ...	.	48	12	..	...	.	37·3	38·8		..	11	6	1	..	2	3	6	7	8	8	406·7	49·1	7·4	...	19·9	10·6	24·5	37·2	63·3	90·8
Shahabad ...	Arrah	.	24	9	..	.	...	40·2	37·7	.	...	1	6	2	4	1	3	2	4	5	5	40·4	7·4	2·3	4·1	16·2	19·2	16·2	44·4	84·0	90·2
Muzaffarpore ..	Muzaffarpore	.	15	9	...	..	.	31·2	37·5	.	.	10	3	3	2	1	2	1	3	2	.	344·5	38·6	34·7	24·3	17·2	12·1	7·5	31·2	32·0	...
Durbhanga ...	Durbhanga ...	..	21	11	...	..		22·6	32·6	..	..	8	4	2	5		5	2	1	2	5	247·2	27·3	15·3	40·8	...	11·7	9·3	27·0	23·7	81·4
Saran	Chupra	.	15	3	.			19·7	18·1	..	.	5	3	1	2	.	2	1	3	1	1	110·6	40·3	8·7	20·7	...	11·3	6·7	25·7	12·6	15·3
Bhaugulpore ...	Bhaugulpore ..	1	16	8	...	...	154·7	20·9	24·1	.	.	9	2	..	1	1	1	5	2	...	8	382·0	19·2		8·3	12·4	4·8	33·6	16·5	...	43·3
Monghyr ...	Monghyr		23	5	..	...	.	20·7	20·7	.		12	3	3	1	1	1	1	1	.	3	420·2	23·1	22·1	9·1	13·8	5·0	5·8	8·2	...	72·5
Purneah ...	Purneah		2	1	..	..	.	11·3	9·2		.	...	.	2	1	.								65·8	43·5	.	.	.	.	..	..	...
Poori ...	Poori		17			..		39·6	.	...	..	2	2	.	.		2	1	5	5	1	514·2	57·9	...		..	18·7	51·3	40·9	60·9	28·8
	TOTAL ...	2	3·9	151	..	.	14·9	23·3	23·1	...	...	105	51	5	29	15	16	30	1.	37	60	211·0	28·5	15·5	15·7	9·5	11·3	14·5	17·4	23·5	54·6

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 11th August 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 9th August 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 9th August 1890.			Week ending Saturday, the 10th August 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	386	88,500	1,339	261	52,570	819
Jute	46	11,800	240	35	15,975	289
Firewood	165	95,650	1,398	159	83,475	1, 26
Other articles	722	2,05,995	2,652	715	1.70,025	2,400
Total ...	1,319	4, 1,945	5,638	1,170	3,22,045	4,734

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	232,719	2,28,492 6 0	14,73,505 20	3,22,132 5 0	19,104 13 6	5,64,729 8 6	64,569	72,780	137,349
Or per mile of railway ...	.....	146 8 1	.....	211 2 8	12 8 4	370 3 1	.....	.....	.....
For previous 4 weeks of half-year	880,367	8,69,756 13 0	71,29,710 20	15,02,769 5 0	69,352 2 0	25,01,878 4 0	243,282½	295,885½	539,167½
Total for 5 weeks ...	1,122,086	10,93,249 3 0	86,03,216 0	18,84,901 10 0	88,456 15 6	30,66,607 12 6	307,851½	368,665½	676,516½
Comparison.									
Total for corresponding week of previous year	221,442	2,22,123 13 8	19,50,147 30	4,31,759 1 0	16,856 14 3	6,70,739 12 11	65,058	77,864	142,922
Per mile of railway corresponding week of previous year ..	.....	145 9 9	.....	283 0 5	11 0 10	439 11 0	.....	.....	.....
Total to corresponding date of previous year	1,254,298½	11,96,505 2 7	1,11,15,888 20	23,64,027 6 6	86,654 0 6	36,47,186 9 1	323,157	439,281	762,438

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

Receipts for week ending 3rd August 1889.			Receipts for week ending 2nd August 1890.		Total receipts from 1st April 1889 to 3rd August 1889.			Total receipts from 1st April 1890 to 2nd August 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
[illegible]	6,70,710	439	1,525¼	5,64,730	370	1,525½	1,56,75,937	571	1,525½	1,12,05,659	517	.....	14,68,278

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
traffic for the week ..	9,917	5,022 4 0	20,302 20	1,385 10 0	39 12 0	6,447 10 0	987	609	1,596
r mile of railway . ..	173½	87 12 10	353 0	24 3 7	0 11 1	112 11 6	.....	.....	.....
previous 4 weeks of half- r	39,213	19,332 3 0	1,53,096 10	9,397 8 0	153 0 0	28,882 11 0	3,742	2,326	6,068
Total for 5 weeks ...	49,130	24,354 7 0	1,73,398 30	10,783 2 0	192 12 0	35,330 5 0	4,729	2,935	7,664
Comparison.									
for corresponding week previous year ...	13,788	8,178 10 0	36,420 0	2,347 2 0	69 0 0	10,594 12 0	1,084	678	1,762
ile of railway correspond- week of previous year ...	241	142 15 9	636 30	41 0 6	1 3 4	185 3 7	.....	.....	.....
to corresponding date of vious year	58,676	30,758 2 7	2,52,622 30	13,352 6 0	231 0 3	44,341 8 10	4,706	3,439	8,145

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

ipts for week ending 3rd August 1889.			Receipts for week ending 2nd August 1890.			Total receipts from 1st April 1889 to 3rd August 1889.			Total receipts from 1st April 1890 to 2nd August 1890.			Total increase in 1890.	Total decrease in 1890.
te d.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
	10,595	185	57½	6,148	113	57½	1,58,338	154	57½	1,62,944	158	4,606	..

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 22¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
traffic for the week ...	17,026	4,276 12 0	4,707 0	153 0 0	7 8 0	4,437 4 0	923	45	968
r mile of railway	.....	192 3 5	.....	6 14 0	0 5 5	199 6 10	.....	.....	.....
previous 4 weeks of half- r	72,086	17,563 3 0	16,457 20	588 15 0	29 2 0	18,181 4 0	3,377	209	3,586
Total for 5 weeks ...	89,112	21,839 15 0	21,164 20	741 15 0	36 10 0	22,618 8 0	4,300	254	4,554
Comparison.									
for corresponding week of vious year	15,296½	3,763 0 3	3,298 10	119 8 0	5 2 6	3,827 10 9	933	35	968
ile of railway correspond- week of previous year ..	.....	166 6 10	.....	5 5 11	0 3 9	172 0 6	.....	.....	.....
to corresponding date of vious year	95,466½	22,543 0 3	24,912 10	822 4 0	14 2 0	23,379 6 3	4,617	179	4,796

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

ipts for week ending 3rd August 1889.			Receipts for week ending 2nd August 1890.			Total receipts from 1st April 1889 to 3rd August 1889.			Total receipts from 1st April 1890 to 2nd August 1890.			Total increase in 1890.	Total decrease in 1890.
n ge ed.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
	3,828	172	22¼	4,437	199	22¼	1,06,017	205	22¼	1,07,946	270	1,929	...

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 26th July 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RU		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Tot
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	131,510	55,940 0 0	5,26,270 0	1,27,810 0 0	15,610 0 0	1,99,360 0 0	22,870	35,101	57
Or per mile of railway .	171	73 0 0	686 0	167 0 0	*2 0 0	242 0 0	.....	.....	....
For previous 3 weeks of half-year	438,440	1,78,650 0 0	12,16,5*0 0	2,44,800 0 0	37,430 0 0	4,60,880 0 0	61,855	80,341	142
Total for 4 weeks	569,950	2,34,590 0 0	17,42,790 0	3,72,610 0 0	53,040 0 0	6,60,240 0 0	84,725	115,442	200
COMPARISON									
Total for corresponding week of previous year	119,691	58,053 0 0	4,59,217 0	1,02,150 0 0	16,733 0 0	1,74,936 0 0	23,277	25,702	48
Per mile of railway corresponding period of previous year	159	75 0 0	615 0	137 0 0	*5 0 0	217 0 0	.....	.....	...
Total to corresponding date of previous year	558,767	2,32,840 0 0	17,02,092 0	3,18,153 0 0	57,530 0 0	6,08,532 0 0	89,869	93,647	183

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 27TH JULY 1889.			RECEIPTS FOR WEEK ENDING 26TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH JULY 1890.			Total increase in 1890	Total decrease 1890.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	1,74,936	234	*767	1,99,360	260	690	27,13 974	2*4	760	*29,78,555	239	2,64,581	.....

* Audited up to week ending 21st J ne 1890.

BENGAL CENTRAL RAILWAY

Approximate Return of Traffic for week ended 26th July 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RU		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	To
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week.... ..	25,180	9,340 0 0	31,870 0	2,220 0 0	60 0 0	11,620 0 0	3,611	2,059	
Or per mile of railway .	201	75 0 0	255 0	18 0 0		93 0 0	.....	.....	..
For previous 3 weeks of half-year	81,912	27,500 0 0	1,05,700 0	5,780 0 0	400 0 0	33,680 0 0	9,815	5,587	1
Total for 4 weeks .	107,092	36,840 0 0	1,37,570 0	8,000 0 0	460 0 0	45,300 0 0	13,426	7,646	1
COMPARISON									
Total for corresponding week of previous year	22,771	8,593 0 0	35,738 0	2,415 0 0	63 0 0	11,071 0 0	3,335	2,031	
Per mile of railway corresponding period of previous year .	182	69 0 0	286 0	19 0 0	1 0 0	89 0 0	....	.....	.
Total to corresponding date of previous year . .	111,170	37,539 0 0	1,37,688 0	8,558 0 0	226 0 0	46,323 0 0	13,367	8,265	1

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 27TH JULY 1889.			RECEIPTS FOR WEEK ENDING 26TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH JULY 1890.			Total increase in 1890.	Tot decreas 18
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
125	11,071	89	125	11,620	93	125	2,26,170	100	125	*2,11,310	99	.. ..	14.

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, *on* 86 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
traffic for the week	14,140	4,650 0 0	11,440 0	1,080 0 0	230 0 0	5,760 0 0	2,414	690	3,104
ar mile of railway	164	53 0 0	133 0	12 0 0	3 0 0	67 0 0	.....	.....	.....
previous 3 weeks of half-	38,760	12,640 0 0	30,140 0	3,150 0 0	260 0 0	16,050 0 0	6,586	1,872	8,458
af									
Total for 4 weeks ...	50,900	17,090 0 0	41,580 0	4,230 0 0	490 0 0	21,810 0 0	9,000	2,562	11,562
COMPARISON.									
l for corresponding week of	12,714	4,145 0 0	22,536 0	1,075 0 0	504 0 0	5,724 0 0	2,489	1,059	3,548
evious year									
mile of railway corresponding	148	48 0 0	262 0	13 0 0	6 0 0	67 0 0	.....	.....	.....
iod of previous year									
l to corresponding date of	53,321	16,171 0 0	70,124 0	3,095 0 0	1,208 0 0	20,474 0 0	9,569	3,166	12,735
evious year									

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

ceipts for week ending 27th July 1889.			Receipts for week ending 26th July 1890.			Total receipts from 1st April 1889 to 27th July 1889.			Total receipts from 1st April 1890 to 26th July 1890.			Total increase in 1890.	Total decrease in 1890.
an age ked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,724	67	86	5,760	67	86	94,753	65	86	*1,03,552	71	8,799	.....

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, *on* 27¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
l traffic for the week ...	3,020	1,100 0 0	8,360 0	470 0 0	10 0 0	1,580 0 0	510	400	910
ar mile of railway	111	40 0 0	307 0	17 0 0	1 0 0	58 0 0	.....	.....	.....
previous 3 weeks of half-	9,280	3,290 0 0	44,280 0	2,360 0 0	30 0 0	5,680 0 0	1,510	1,219	2,729
af									
Total for 4 weeks ...	12,300	4,390 0 0	52,640 0	2,830 0 0	40 0 0	7,260 0 0	2,020	1,619	3,639
COMPARISON.									
l for corresponding week	2,833	1,107 0 0	8,172 0	528 0 0	97 0 0	1,732 0 0	586	340	926
previous year									
mile of railway correspond-	104	41 0 0	300 0	19 0 0	4 0 0	64 0 0	.....	.....	.....
r period of previous year ...									
l to corresponding date of	11,182	4,320 0 0	31,980 0	2,157 0 0	142 0 0	6,619 0 0	2,194	1,457	3,651
evious year									

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

ceipts for week ending 27th July 1889.			Receipts for week ending 26th July 1890.			Total receipts from 1st April 1889 to 27th July 1889.			Total receipts from 1st April 1890 to 26th July 1890.			Total increase in 1890.	Total decrease in 1890.
an age ked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
7¼	1,733	64	27¼	1,580	58	27¼	32,198	60	27¼	*32 893	71	695	.....

* Audited up to week ending 31st May 1890.

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAYS.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the week ending 26th July 1890, on 315 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs.	MDS.	Rs.	Rs.	Rs.			
Total traffic for the period on 315 miles open	37,821	11,627	1,01,447	10,790	1,673	24,096	5,122	6,427	11,54
Or per mile of railway	120	37	322	34	2	78*	.....	.....	.....
For previous 2 weeks of half-year	99,570	34,164	3,90,483	39,423	5,897	79,484	13,449	18,050	31,49
Total for 3 weeks ...	1,37,391	45,791	4,97,930	50,219	7,570	1,03,580	18,571	24,477	43,04
COMPARISON.									
Total for corresponding period of previous year on 273 miles open	32,996	10,570	1,02,787	13,487	3,770	27,827	5,014	5,226	10,23
Per mile of railway corresponding week of previous year ...	121	39	596	49	5	93*	.....	.....	.....
Total to corresponding date of previous year	151,014	52,870	7,64,711	63,339	13,397	1,29,636	18,972	21,883	40,85

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

RECEIPTS FOR WEEK ENDING 27TH JULY 1889.			RECEIPTS FOR WEEK ENDING 26TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH JULY 1890.			Total increase in 1890-91	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	27,827	102	315	24,096	76	273	6,47,957	148	282·33	7,00,473	155	52,516	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.	A.	P.
Approximate earnings for week ending 19th July 1890...	6,450		
Corresponding period of 1889	8,665		
Decrease	2,215		
Receipts per mile for week ending 19th July 1890	126	7	6
Corresponding period of 1889	169	14	7
Decrease	43	7	1
Receipts from 1st to 19th July 1890	22,373		
Corresponding period of 1889	21,821		
Increase	552		

Printed and published by EDWIN MORRIS LEWIS, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 13th August 1890.

APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 13, 1890.

[Third Publication.]

PUBLIC WORKS DEPARTMENT,—MARINE.

NOTICE.

The 29th July 1890.—The following draft of rules, which it is proposed to issue under section 29 of Act VI of 1884 (as amended by section 11 of Act III of 1890), for the grant of certificates of service to masters, engineers, and engine-drivers of inland steam-vessels, is published for general information. These rules will be taken into consideration on the expiry of a month from the date of their first publication in the *Calcutta Gazette*, and the Lieutenant-Governor will receive and give due attention to any objections or suggestions which may be made by any person within that period.

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

1. A certificate of service will be granted to any person who has served as a master, or as a engineer, or as an engine-driver of an inland steam-vessel before the first day of April 1890, and who, in the opinion of the Local Government, is qualified for the duties which such certificate will entitle him to perform.

2. Applications for certificates of service must be made upon the appropriate form [Certificate of Service 1], and must be submitted to the Port Officer of Calcutta, together with the applicants' testimonials and any other evidence which they may have to offer in respect of their qualifications.

3. A fee according to the following scale shall be paid for each certificate of service :—

	Rs.
First class master	10
Second ditto	5
Engineer	10
Engine-driver	5

4. Certificates of service shall be made and issued in the forms hereunto annexed.

5. Every certificate of service shall be made in duplicate, and one copy shall be delivered to the person entitled to the certificate, and the other shall be kept and recorded by the Port Officer of Calcutta.

Form A.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Service

AS

FIRST CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To _____

Whereas *it has been proved to the satisfaction of the Local Government that you have served as Master of an Inland Steam-Vessel before the first day of April* 1890, *and that you are qualified to fulfil the duties of First-class Master of an Inland Steam-Vessel, I do hereby grant you this CERTIFICATE OF SERVICE as such First-class Master.*

By order of the Government of Bengal.

Given under my Hand and Seal.

Under-Secy. to the Govt. of Bengal.

This _____ *day of* _____ 18____.

Endorsement on Form A.

No. of Certificate [redacted]

*Address of Owner*_____

*Date and Place of Birth*_____

*Signature*_____

Any Master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

*Issued at Calcutta on the*_____ *day of*_____ 18____.

Registered,

Port Officer of Calcutta.

Form B.

By the Honourable the Lieutenant-Governor of Bengal.

rnment of
Bengal.

Certificate of Service

AS

)ND CLASS MASTER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

Whereas *it has been proved to the satisfaction of the Local Government that you have served as Master of an Steam-Vessel before the first day of April* 1890, *and that you are qualified to fulfil the duties of Second-class Master of an Steam-Vessel, I do hereby grant you this CERTIFICATE OF SERVICE as such Second-class Master.*

Given under my Hand and Seal.

By order of the Government of Bengal.

Under-Secy. to the Govt. of Bengal.

——————— *day of* ——————— 18 ——.

Endorsement on Form B.

. of Certificate [redacted]

———————— *son of* ———————— *by caste* ————————

and Place of Birth showing Village, Thana, and District ————————

nce showing Village, Thana, and District ————————

; ————————————————————

al description, stating particularly any permanent marks or scars ————

ure ————————————————————

Any Master who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding 0.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to overnment of Bengal.

ued at Calcutta on the ——————— *day of* ——————— 18 ——.

Registered,

Port Officer of Calcutta.

---

* If not known exactly must be stated on the best information or evidence available.

Form O.

Government of Bengal.

By the Honourable the Lieutenant-Governor of Bengal.

Certificate of Service

AS

ENGINEER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To _____

Whereas *it has been proved to the satisfaction of the Local Government that you have served as E of an Inland Steam-Vessel before the first day of April* 1890, *and that you are qualified to fulfil the duties of E of an Inland Steam-Vessel, do hereby grant you this CERTIFICATE OF SERVICE as such Engineer.*

By order of the Government of Bengal,

Given under my Hand and Seal.

Under-Secy. to the Govt. of B

This _____ *day of* _____ 18——.

Endorsement on Form C.

No. of Certificate

Bearer _____

Date and Place of Birth _____

Sig

Signature _____

ot exceed

Any ENGINEER who fails to deliver up a Certificate which has been cancelled or suspended is liable to a pe
forthwith i *ceeding Rs.* 500.

B.—Any person other than the owner thereof becoming possessed of this Certificate is required to tra
h to the Government of Bengal.

sued at Calcutt

utta on the _____ *day of* _____ 18——.

Registered,

Port Officer of Calcutta

Form D.

By the Honourable the Lieutenant-Governor of Bengal.

Government of Bengal.

Certificate of Service

AS

ENGINE-DRIVER OF AN INLAND STEAM-VESSEL UNDER ACT VI OF 1884.

To _____

Whereas *it has been proved to the satisfaction of the Local Government that you have served as Engine-Driver an Inland Steam-Vessel before the first day of April* 1890, *and that you are qualified to fulfil the duties of Engine-Driver of an Inland Steam-Vessel, I do hereby grant you this CERTIFICATE OF SERVICE as such Engine-Driver.*

By order of the Government of Bengal,

Given under my Hand and Seal.

Under-Secy. to the Govt. of Bengal.

is _____ *day of* _____ 18——.

Endorsement on Form D.

No. of Certificate [redacted]

Bearer _____ *son of* _____ *by caste* _____

Date and Place of Birth showing Village, Thana and District* _____

Residence shewing Village, Thana and District _____

Height _____

Personal description, stating particularly any permanent marks or scars _____

Signature _____

Issued at Calcutta on the _____ *day of* _____ 18——.

Any Engine-Driver who fails to deliver up a Certificate which has been cancelled or suspended is liable to a penalty not exceeding Rs. 500.

N. B.—Any person other than the owner thereof becoming possessed of this Certificate is required to transmit it forthwith to the Government of Bengal.

Registered,

Port Officer of Calcutta.

---

* If not known exactly must be stated on the best information or evidence available.

Abstract account of the Receipts and Payments with the Opening and the Closing Balance of the Chittagong Port Fund for the year 1889-90.

Receipts.	Amount.	Total.	Expenditure.	Amount.	Total.
	Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.
Opening balance on 1st April 1889 ...	.....	68,058 5 10	Refunds—		
Port dues	38,924 3 3		Port dues	122 6 6	
Fees and fines—			Miscellaneous	.....	
Mooring fees	6,306 10 8		Administration—		
Fees for supplying water	4,270 10 0		Pay of Vice-Chairman	7,487 15 0	
License fees for passenger boats ...	.....		Fees to Port Commissioners ...	487 8 0	
Price of drawing, painting metal badges	174 0 0		Establishment	.....	
Fines and forfeitures	252 0 0		Contingencies	.....	
Tolls—			Cost of audit	161 1 7	
Mohesh khally toll collection ...	449 12 0		Law charges	.....	
Miscellaneous receipts—			Police—		
Sale proceeds of stores	1,243 1 2		Pay of constable	1,200 0 0	
Earnings of the S. S. *Active* ...	776 0 0		Port Office—		
Interest on Government securities	784 15 0		Port Officer	.....	
Miscellaneous	1,036 15 10	56,218 3 11	Travelling and house allowance ...	913 0 0	
			Establishment	1,221 0 9	
			Contingencies and miscellaneous...	328 14 9	
			Petty construction and repairs ...	76 0 0	
			Boat allowance to Port Health Officer	1,200 0 0	
			Charges for laying moorings ...	300 0 0	
			Cost of stores	.....	
			Vessels and Boats—		
			Establishment	3,801 0 8	
			Stores	38 8 6	
			Repairs	349 5 0	
			Contingencies	1,679 2 2	
			Light-house—		
			Establishment	2,686 10 9	
			Stores	3,515 4 8	
			Contingencies	107 9 9	
			Tidal observatory—		
			Establishment	150 0 0	
			Contingencies	9 0 3	
			Mohesh khally Tolls—		
			Establishment	344 3 3	
			Contingencies	8 5 0	
			Miscellaneous—		
			Establishment	301 1 5	
			Pension and gratuities	.....	
			Ground rent	148 9 2	
			Dockyard services and supplies ...	4,486 3 9	
			Ordnance stores	.....	
			Miscellaneous and unforeseen charges	2,666 5 7	
			Public Works—		
			Original works	.....	
			Repairs	.....	
			Establishment	.....	
			Tools and plant	.....	
			Total Expenditure ...	33,979 4 6	33,979 4 6
			Closing balance ...	.....	(a) 90,297 5 3
Grand Total ...	.....	1,24,276 9 9	Grand Total ...	.....	1,24,276 9 9

(a) Exclusive of Rs. 20,200 invested in Government securities.

Chittagong Port Commrs.' Office,
The 6th August 1890.

D. R. Lyall,
Chairman.

[REGISTERED No. 29.]

No. 34 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, AUGUST 20, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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LIBERALITY OF BABU OODIT NARAIN SINGH OF HANDWAH BHAGULPORE.

THE following correspondence is published for general information.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,
Secretary to the Government of Bengal.

MUNPL. DEPT.,
The 12th August 1890.

No. 2 $\frac{R\text{-}T}{M}$, dated Yacht Rhotas, the 12th August 1890.

From—H. J. S. COTTON, Esq., Secretary to the Government of Bengal, Municipal Department,
To—The Commissioner of the Bhagulpore Division.

I AM directed to acknowledge the receipt of your letter No. 1312G, dated 8th August 1890, and to request that you will communicate to Babu Oodit Narain Singh of Handwah the Lieutenant-Governor's high appreciation of his public spirit and liberality in subscribing Rs. 26,000 towards the completion of the Bhagulpore water-works and a further sum of Rs. 10,000 in aid of the Leper Asylum Fund.

2. A copy of the correspondence will be published in the *Calcutta Gazette*.

No. 1312G, dated Bhagulpore, the 8th August 1890.

From—C. C. QUINN, Esq., Offg. Commissioner of the Bhagulpore Division,
To—The Secretary to the Government of Bengal, Municipal Department.

I HAVE the honour to forward, for the information of the Lieutenant-Governor, a copy of a letter from Babu Oodit Narain Singh of Handwah, containing the munificent offer of Rs. 26,000 towards the completion of the Bhagulpore water-works and of a further sum of Rs. 10,000 in aid of the Leper Asylum Fund. I would suggest that the liberality and public spirit which Babu Oodit Narain Singh has displayed by this offer may receive the recognition of Government.

From—BABU OODIT NARAIN SINGH, Rajah of Handwah,
To—The Commissioner of the Bhagulpore Division.

I MOST humbly and respectfully beg to offer Rs. 26,000 towards the completion of the water-works at Bhagulpore and Rs. 10,000 towards a Leper Asylum in this town.

REPORT ON THE STATE OF THE SALT MARKET FOR THE FIRST QUARTER OF 1890-91.

No. 588B, dated Calcutta, the 12th August 1890.

From—K. G. GUPTA, Esq., Secretary to the Board of Revenue, L.P.,
To—The Secretary to the Government of Bengal, Financial Department.

SALT.

SIR H. L. HARRISON, KT.

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the first quarter of 1890-91, comprising the months of April, May, and June 1890.

2. The quantity of salt of every description cleared during the quarter under report amounted to 26,51,986 maunds 8 seers 5 chittacks, against 24,01,999 maunds 18 seers 6 chittacks in the previous quarter, and 24,03,784 maunds 35 seers 15 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 62,34,543-12, against Rs. 56,82,037-13 in the previous quarter, and Rs. 56,36,201-9 in the corresponding quarter of the previous year.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are shown in table I :—

TABLE I.

	Cuttack.	Pooree.	Balasore.
	MDS. S. T.	MDS. S. T.	MDS. S. T.
Balance at close of the last quarter	.....	1,32,241 0 0	1,620 0 0
Manufactured or added during the quarter	.....	.....	... ..
Total ...	.....	1,32,241 0 0	1,620 0 0
Sales during the quarter	.....	46,247 0 0	50 0 0
Wastage	.....	4,112 0 0	.....
Total ...	.....	50,359 0 0	50 0 0
Balance at close of the quarter	.....	81,882 0 0	1,570 0 0

4. The total sale of excise salt during the quarter under review amounted to 46,297 maunds, against 37,086 maunds in the previous quarter, and 16,270 maunds in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarter of the previous two years :—

TABLE II.

	1888-89.		1889-90.		1890-91.	
	1st quarter.		1st quarter.		1st quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool pungah	25,85,924	20,70,027	28,22,151	17,61,678	18,17,001	15,56,155
Foreign kurkutch	5,15,375	4,79,964	5,19,401	4,12,306	6,68,862	7,66,515
Indian ditto	.....	1,32,961	1,15,008	1,30,111	1,93,253	1,43,239*
Total ...	31,01,299	26,82,952	34,56,590	23,04,295	26,79,116	24,65,909

* Exclusive of 26,592 maunds of salt transhipped from Chittagong.

6. The following are the details of the Indian kurkutch salt shown in the above table :—

TABLE III.

	1888-89.		1889-90.		1890-91.	
	1st quarter.		1st quarter.		1st quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bombay	.....	1,32,961	92,068	1,07,171	1,71,179	1,19,033
Coconada	.....	.....	21,940	21,940	20,674	22,806
Cuddalore	.....	.....	800	800	.....	.....
Gopalpore	.....	.....	200	200	.....	.....
Tuticorin	.....	.....	.....	.....	200	200
Madras	.....	.....	.....	.....	1,200	1,200
Total ...	.....	1,32,961	1,15,008	1,30,111	1,93,253	1,43,239

7. Table IV shews the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the results of the previous four quarters :—

TABLE IV.

WHERE STORED.	First quarter of 1889-90.	Second quarter of 1889-90.	Third quarter of 1889-90.	Fourth quarter of 1889-90.	First quarter of 1890-91.
	Mds.	Mds.	Mds.	Mds.	Mds.
Sulkea Government golahs	21,40,063	23,55,265	17,41,840	22,14,943	19,60,547
Chittagong ditto do.	1,53,597	1,42,880	67,587	2,21,633	99,605
Total ...	23,93,660	24,98,145	18,09,427	24,33,576	20,60,152

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review and the corresponding quarters of the previous two years, are shown in the table below :—

TABLE V.

PERIOD.	*Vid* Balikhali.	*Vid* Sankrail.	*Vid* Gewakhally.	*Vid* Kidderpore.	*Vid* Balliaghatta.	*Vid* Ruthtollah Ghat.	By the East Indian Railway.	By the Eastern Bengal and South-Eastern Railways or *vid* Chitpore.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
First quarter of 1888-89 ...	1,47,781	1,85,007	51,418	81,277	2,81,859	6,709	11,34,184	3,84,512
Ditto of 1889-90 ...	1,83,568	1,30,411	34,093	64,800	2,07,577	1,897	9,65,407	3,18,226
Ditto of 1890-91 ...	1,55,714	1,17,096	32,525	1,09,880	1,73,154	1,287	9,69,983	4,26,221

9. The quantity of salt despatched by the East Indian Railway to stations beyond Buxar during the quarter under review amounted to 3,341 maunds 10 seers, as noted in the margin, against 2,733 maunds 30 seers in the previous quarter, and 2,430 maunds in the corresponding quarter of the previous year.

	Mds.	s.
April	607	20
May	1,822	20
June	911	10
Total ...	3,341	10

10. The shipments of Liverpool salt for the port of Calcutta according to published market reports were as follow :—

	Tons.
April	35,570
May	29,990
June	24,920
Total ...	90,480

11. Table VI shews the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter as compared with those obtaining during the same period last year:—

TABLE VI.

DESCRIPTION OF SALT.	Prices on the 15th April		Prices on the 30th April		Prices on the 15th May		Prices on the 31st May		Prices on the 15th June		Prices on the 30th June	
	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool pungah	95	92	90	90	88	88	91	90	88	90	94	82
French kurkutch	61	...	61	...	61	...	61	...	61	...	61	...
Jedda ditto	62	53	58	55	62	56	56	56	62	53	54	52
Bombay ditto	92	80	82	70	76	54	75	54	70	50	70	47
Italian ditto	62	...	62	...	62	...	62	...	62	...	62	...
Muscat ditto	61	51	62	53	61	55	62	55	61	57	61	55
Rock	75	75	75	75	75	70	75	70	75	70	75	65

12. The following table shows the quantity of sea-imported salt admitted into bond and cleared from bond and shipboard at Chittagong and Naraingunge during the quarter under review and the corresponding quarter of 1889-90:—

TABLE VII.

PORT.	DESCRIPTION OF SALT.	ADMITTED INTO BOND.		CLEARED.	
		First quarter of 1889-90.	First quarter of 1890-91.	First quarter of 1889-90.	First quarter of 1890-91.
		MDS. S. C.	MDS. S. C.	MDS. S. C.	MDS. S. C.
Chittagong	Liverpool pungah	6,320 0 0	.....	70,697 5 0	60,198 32 8
	Akyab	.....	.....	0 2 0	.....
	Cochin kurkutch	.....	.....	0 5 8	.....
	Bremen	.....	.....	.....	7,180 0 0
Naraingunge	Liverpool pungah	.....	.....	15,147 0 0	47,025 0
	Total ...	6,320 0 0	.....	85,844 13 8	1,14,403 32 8

No transactions in sea-imported salt have been reported for the quarter from the ports of Cuttack, Pooree, and Balasore.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 16th August, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	BURDWAN DIVN.		
1	Burdwan Aug. 16, '90	2·26	Weather—rainy and cloudy. Transplantation of *amun* going on. Prospects good. Prices of common rice :—
	Culna ...	1·69	
	Cutwa ...	2·84	
	Ranigunge ..	4·48	
			Srs.
			Burdwan 14¼
			Culna 14
			Cutwa 14 13/16
			Ranigunge 16
			per rupee.
2	Bankoora ,, 16, '90	1·24	Weather—warm Transplanting of *amun* rice finished and weeding going on vigorously. Sugarcane prospering. It is estimated that about 16 annas of the area under rice have been cultivated this year in the Bissenpore subdivision. Common rice selling at 19 seers per rupee at Sudder and 17 seers at Bissenpore.
3	Birbhum ,, 16, '90	1·21	Breaks of dry weather more frequent. Prospects of paddy very promising.
	Rampore Haut ...	4·93	Prices of rice range from 16 to 18 seers per rupee.
4	Midnapur ,, 16, '90	2·01	Weather—showery. More rain wanted in some parts. Paddy doing well. Transplantation still going on. Prices of common rice :—
			Srs.
			Sudder 15½
			Contai 15
			Ghatal 16
			Tumlook 14
			per rupee.
5	Hooghly ,, 16, '90	1·49	Weather—seasonable. State and prospects of crops good. Prices of common rice :—
	Serampore ...	2·67	
	Jehanabad ...	4·18	
			Srs.
			Sudder 13
			Serampore 16
			Jehanabad 15
			per rupee.
	Howrah ,, 16, '90	3·60	Weather—seasonable. *Aus*, *amun*, jute, and sugarcane doing satisfactorily.
	Uluberia .	2·65	Prospects good. Price of common rice 13 to 14 seers per rupee.
	Central Districts.		
	PRESIDENCY DIVN.		
6	24-Perghs. Aug. 19, '90	2·27	Weather—hot and clear with occasional light showers. Prospects good. *Aus* and jute being cut. Transplantation of *amun* going on vigorously, but more rain wanted. Price of rice stationary.
7	Nuddea ,, 16, '90	2·55	Weather—seasonable Crops on high lands continue good, but those on low
	Kushtea ...	2·41	lands swamped by floods. Rivers still rising.
	Meherpore ...	2·20	
	Chuadanga ...	4·26	
	Ranaghat ...	1·17	
8	Khoolna ,, 16, '90	1·30	Weather—seasonable. Prospects of crops continue favourable. Transplantation now going on rapidly.
	Bagirhat ...	1·92	
	Satkhira ...	2·63	
9	Jessore ,, 16, '90	6·85	Weather—hot and cloudy with occasional showers. Harvesting of *aus* going
	Jhenidah ..	2·23	on. Partial damage to *amun* and *aus* crops done by early rise of rivers in
	Magura ...	4·71	parts of Jhenidah, Magura, and Bongong subdivisions.
	Narail ...	4·49	
	Bongong ...	1·77	
10	Moorshedabad ,, 16, '90	3·24	Weather—fine with passing clouds. The gauge stood 30′ 11¼″ last noon (15th), the highest rise ever on record. To-day (16th) there is a fall by ·5 of an inch. Greater portion of *aus* submerged under water, and the outturn will, as it appears, be much less than usual. Some *amun* lands in the Lalbagh subdivision and greater portion of them in the Kandi subdivision have been overflooded, but transplantation will begin on the receding of the water.
11	Dinagepur ,, 16, '90	0·25	There has been a break in the rains, with hot and sultry weather, but to-day
	Thakurgaon ...	0·86	(16th) it is raining again. Harvesting of jute and *bhadoi* paddy going on. Outturn of each crop may still be estimated at 18 annas. Prospects of *haimanti* paddy continue to be very favourable. It is expected that this crop will be transplanted over the full usual area, but only about 12 annas of the crop have as yet been transplanted. Price of rice unchanged.
	RAJSHAHYE DIVN.		
12	Rajshahye ,, 16, '90	0·16	Weather—seasonable and wet. Prospects of crops so far excellent. Ganges very
	Nattore ...	1·18	high, and an inundation is feared.
	Nowgong ..	1·22	
13	Rungpur ,, 16, '90	0 02	Very little rain fell during the week, but the sky is now overcast. Rain is
	Nilphamari ...	0 47	wanted for the young *amun*, the transplantation of which is hindered by the
	Kurigram ...	0·18	unusual drought. Jute is being cut and steeped. Owing to over production, prices of jute are low. Sugarcane promises well.
14	Bogra ,, 16, '90	1·51	Weather—cloudy and showery, with short intervals of sunshine Harvesting
	Sherpur ...	1·32	of *aus* going on with good outturn. *Amun* is still being transplanted.
	Nowkhilla ...	1·33	Jute is being cut and steeped. All prospects good. Common rice selling at 18½ seers per rupee Rivers have fallen rapidly.
15	Pubna ,, 16, '90	2·04	Weather - cool and cloudy. *Aus* partially damaged. Prospects of jute and *amun* continue favourable. Prices of rice have risen a little.
16	Darjeeling ,, 16, '90	3·13	Weather—fine. Jute crop in Terai being cut; estimated outturn 12 annas. *Bhadoi* rice in ear.
17	Julpigoree ,, 16, '90	1·99	Weather—hot and cloudy with occasional showers. Transplantation of *haimanti* rice continues. Average outturn of *bhadoi* rice reported to be 12 annas, and that of jute 10 annas. Prices stationary.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*				
		Eastern Districts.		
Dacca Div.	18	Dacca Aug. 16, '90	0·93	Weather—seasonable. Jute and *aus* being harvested, but they have been damaged to some extent owing to high flood. Rivers falling slowly. *Amun* paddy thriving. Common rice being sold at from 13 to 15 seers per rupee.
	19	Furreedpur „ 16, '90	1·91	Weather—seasonable. The flood has gone down a little, and the harvesting of *aus* paddy and jute is in full progress, with an average outturn of 10 annas. *Amun* plants have been damaged to some extent by the high flood. Fodder is scarce. Price of common rice rising.
	20	Backergunge „ 16, '90	2·28	Weather—seasonable. State of standing crops generally good, but some damage has been done to *amun* seedlings by floods. Common rice selling at about 13 seers per rupee.
	21	Mymensingh „ 16, '90	1·60	Weather—cloudy with occasional rainfall. Jute has been injured by excessive rain and flood. Outturn of jute expected to be 14 annas, and that of *aus* paddy 18 annas. Common rice sells at 13 seers 9 chittacks per rupee.
Chittagong Div.	22	Chittagong „ 16, '90	3·26	Weather—seasonable. *Aus* grown to the extent of 12 annas; prospects of this crop fair. Lands are being prepared for *amun*. Rice selling at 16 seers per rupee.
	23	Noakholly „ 16, '90	6·17	Weather—rainy and cloudy. *Aus* crop being harvested. Transplantation of *amun* continues. Prospects fair.
	24	Tipperah „ 16, '90	0·41	Weather—cloudy, hot and muggy. Jute and *aus* being cut. The recent floods have caused no serious damage to crops. Prospects very promising. Rice selling at from 12 seers 12½ chittacks to 21 seers 5½ chittacks per rupee.
	25	Chittagong Hill Tracts. „ 15, '90	2·78	Weather—cloudy and rainy, with occasional sunshine throughout the week. Early *jum* paddy ripening. Cotton progressing. Transplanting of plough-paddy in low lands commenced. Common rice being sold at 12 seers 5 chittacks per rupee.
BEHAR.		Hill Tipperah „ 15, '90	2·48	Weather—sultry with occasional showers. *Amun* being transplanted. *Jum* paddy being reaped. No change in prices.
Patna Div.	26	Patna „ 16, '90	0·78	Weather—hot and sultry. Transplantation of paddy still going on. *Bhadoi* crops reported to have been damaged more or less all over the district owing to excessive rain and floods. Prices of food-grains almost stationary.
		Barh ...	2·0	
		Behar ...	1·08	
		Dinapore ...	2·82	
	27	Gya „ 16, '90	1·74	Weather—hot and cloudy. Transplantation of paddy going on. Prospects of *bhadoi* not favourable. Sugarcane doing well. Prices of food-grains almost stationary.
	28	Shahabad „ 16, '90	1·89	Weather—hot and steamy. Some *bhadoi* in Sasseram and Bhabuah still left. Paddy prospects good on the whole; but if there be much more rain, paddy seedlings will be washed away too to a great extent. Prices stationary, and falling in Sasseram.
		Buxar ...	2·11	
		Bhabuah ...	3·60	
		Sasseram ...	3·74	
	29	Durbhunga „ 16, '90	0·09	Weather—occasionally cloudy in the latter part of the week. A break in the rains for the last 8 days has done immense good to the *bhadoi* crops not injured by floods. *Aghani* rice is being replanted in places where it has been washed away by floods; elsewhere prospects continue very satisfactory. Prices remain stationary.
		Madhubani ...	1·02	
		Somastipur ...	0·49	
	30	Mozufferpur „ 16, '90	0·68	Weather—hotter and drier than in the previous week. The prospects of the *bhadoi* and rice which have not suffered from floods are fair. The damage done by floods is considerable in some localities, but the general *bhadoi* outturn of the district promises to be better than expected during the recent bad weather.
		Hajipur ...	0·49	
		Sitamarhi ...	0·42	
	31	Sarun „ 16, '90	1·10	Weather—finer and hot. *Bhadoi* crops practically all gone. Continued floods have destroyed nearly all the rice in the Sudder subdivision; elsewhere the rice promises a 12-anna crop. Indigo much damaged by floods.
	32	Chumparun ...	...	Report not received.
Bhagulpore Div.	33	Monghyr „ 16, '90	0·58	Weather—hot and close. *Bhadoi* crops damaged owing to floods and excessive rainfall. Prospects of winter rice good.
		Begusarai ...	0·79	
		Jamui ...	2·02	
	34	Bhagulpore „ 16, '90	0·52	Weather—hot with a good deal of sun. Break in the rains beneficial. Some damage done to standing crops by inundation, but on the whole prospects of rice good.
		Banka ..	1·26	
		Madhepura ...	0·61	
		Soopool ...	0·73	
	35	Purneah „ 16, '90	2·94	Weather—bright and sunny. Break in the rains has done great good. *Bhadoi* harvest progressing. *Aghani* transplantation still going on. Indigo manufacture closed with fair results. Floods subsiding except in the south.
		Kishengunge ...	0·37	
		Arrareah ...	0·50	
	36	Maldah „ 16, '90	0·38	Weather—hot and bright with occasional showers. High east wind prevails. Harvesting of *bhadoi* continues. About 10 annas of this crop have been damaged by inundation. Transplantation of winter rice is being pushed on. Common rice selling at from 13 to 16 seers per rupee.
		Shibgunge ...	2·40	
		Gajole ...	0·50	
	37	Sonthal Perghs. „ 16, '90	1·79	Weather—generally cloudy. Much less rain and more sunshine than last week. This will improve *janera* prospects. Transplantation of paddy nearly over. Prospect of this crop is very promising everywhere, and with seasonable rain about the end of September, a 16-anna outturn is anticipated; but the *janera* will not be more than 10 or 12 annas.
		Deoghur ...	1·22	
		Godda ...	1·73	
		Jamtara ...	4·79	
		Pakour ...	1·67	
		Rajmehal ...	1·91	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN. 38	Cuttack Aug. 16, '90	5·33	Weather—seasonable. Rain during the week has much benifited cultivation. Transplantation of *sarad* nearly over. Prospects of *bara bhali* generally good.
ORISSA DIVN. 39	Pooree „ 14, '90	3·74	Weather—seasonable. Transplanting and weeding of *sarad* crop going on. *Beali* in ear. State of miscellaneous crops good. Prices of common rice vary from 18 seers 6 chittacks to 21 seers per rupee in the Sudder subdivision and 21 seers per rupee in the Khoorda subdivision.
	Khoorda ...	1·49	
	Banpur ...	4·06	
ORISSA DIVN. 40	Balasore „ 16, '90	3·25	Weather—seasonable. The *beali* crop suffered somewhat from want of rain last month. Prospects otherwise good. Number of coolies on relief-works 38.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN. 41	Hazaribagh Aug. 16, '90	1·99	Weather—seasonable. A break in the rains has set in. Transplanting of paddy about three quarters finished. Indian-corn poor; about 8 annas crop expected. All other crops doing well. Prices more or less stationary.
CHOTA NAGPORE DIVN. 42	Lohardugga „ 16, '90	1·59	Weather—warm and cloudy. Transplantation of winter rice still going on vigorously. Prospect of *bhadoi* continues favourable. *Goondli* is being cut. Sugarcane in Palamow doing well. Prices steady.
	Palamow (up to 11th Aug.)	4·78	
CHOTA NAGPORE DIVN. 43	Singbhoom Aug. 16, '90	1·61	Weather—cool, but more rain badly wanted. Rice crop has suffered to the extent of two annas in Chybassa and its neighbourhood. Rain much wanted in these parts. From the remainder of the district seasonable rain reported, and condition of crops said to be favourable. Price of common rice ranges from 12 to 24 seers per rupee.
CHOTA NAGPORE DIVN. 44	Manbhoom „ 16, '90	5·39	Weather—has been favourable to crops. Paddy transplanting is on the point of completion. Prospects generally fair so far. *Bhadoi* outturn in the Govindpore subdivision will be below the average.
	Govindpore ...	2·56	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 19th August, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air Pressure. Mean barometric height, 9 A.M.	Air Pressure. Mean reduced to sea-level.	Air Pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean.
Orissa.	Pooree	Pooree	29·633	29·645	—	Calm	302	80·7	15th Aug.	76·6	12th Aug.	87·6	79·0	83·3	
		Gopalpore	29·624	29·646	—·009	SW	333	80·2	14th ,,	78·8	11th to 14th Aug.	85·0	79·7	82·4	
		False Point	29·617	29·639	—·015	South-westerly	229	89·5	10th ,,	75·1	11th ,,	86·4	76·8	81·6	
	Cuttack	Cuttack	29·565	29·647	—·010	WSW	70·7	90·9	9th ,,	76·3	11th & 12th Aug.	88·4	77·3	82·9	
	Balasore	Balasore	29·567	29·626	—·022	SSW	133·9	89·4	15th ,,	73·7	12th ,,	86·3	77·3	81·8	
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·604	29·630	—·024	South-westerly	231·0	90·2	10th ,,	77·0	11th ,,	87·5	79·0	83·3	
	Midnapore	Midnapore	29·473	29·624	—·036	S	186·7	91·3	10th ,,	76·1	12th & 13th Aug.	88·9	77·5	83·2	
	24-Pergunnahs / Howrah / Hooghly	Calcutta	29·608	29·638	—·021	Variable	62	88·5	15th ,,	76·2	12th & 13th Aug.	85·9	77·2	81·6	
	Burdwan	Burdwan	29·524	29·623	—·022	E	80·0	90·1	10th & 15th Aug.	77·4	14th ,,	88·4	78 8	83·6	
	Bankoora	Bankoora	29·295	29·594	—·030	SW	85·0	89·6	10th ,,	75·1	11th ,,	88·0	77·5	82·8	+
	Beerbhoom / West Burdwan	Raneegunge	29·276	29·609	—·011	South-easterly	64·0	89·5	10th ,,	75·9	12th ,,	87·1	77·5	82·3	
	Moorshedabad	Berhampore	29·555	29·622	—·029	E & SSE	95·3	89·1	15th ,,	76·3	12th ,,	87·3	78·4	82 9	
	Nuddea	Krishnaghur	29·577	29·625	—·010	SSE	133·2	?	?	?	?	?	?	?	
	Jessore / Khoolna	Jessore	29·598	29·632	—·030	South-easterly	71·8	89·7	15th ,,	76·4	12th ,,	87 3	78·5	82·9	
East Bengal.	Chittagong	Chittagong	29·671	29·701	—·024	SSE	166·	87·6	9, 10, 13 & 15th Aug.	73·0	9, 11 & 13 to 15 Aug.	87·4	72·1	79 8	+
	Chittagong Hill Tracts	Demagiri	observations not received.												
	Backergunge	Barrisal	29·638	29·650	—·012	SSE	103·0	88·3	10th Aug.	75·9	12th ,,	85·9	77 9	81·9	0
	Noakholly	Noakholly	29·642	29·656	—·013	SE	170·0	87·0	15th ,,	74·8	10 & 12 ,,	84·7	76·5	80·6	—
	Furreedpore	Furreedpore	29·620	29·639	—·019	Variable	111·0	86 5	10th & 15th Aug.	77·4	12th ,,	85·9	79·4	82·6	+
	Dacca	Dacca	29·632	29·655	—·021	SE	179·7	89·6	11th ,,	76·7	11th ,,	87·7	77 8*	82 7*	—
	Commillah	Commillah	29·637	29·673	—·022	SE	186·7	88·9	14th ,,	75·3	11 & 12 ,,	87·2	76·3	81·7	+
	Mymensingh	Mymensingh	29·610	29·603	—·018	ESE	131·9	88·7	14th ,,	76 6	10th ,,	86·8	77·8	82·4	+
North Bengal.	Bogra	Bogra	29·576	29·630	+·009	E	103·6	90·3	10th ,,	77·1	9th ,,	87·9	78·5	83·2	(
	Pubna	Serajgunge	29·605	29·652	—·020	South-easterly	88·3	87·1	14th ,,	76·7	9th ,,	85·6	78·4	82·0	—
	Rajshahye	Rampore Beauleah	29·555	29·585	—·002	SE & SSE	184·9	87·8	11th & 15th Aug.	77·6	11 & 12 ,,	86·1	78 8	82·5	—
	Maldah	Maldah	29·543	*29 624	+·030	ESE	74·0	91·5	10th ,,	78·9	12 ,,	89·4	79·8	84·6	+(
	Dinagepore	Dinagepore	29 525	29·644	—·026	E	129·0	92·6	15th ,,	78·1	12th ,,	89·7	79·9	84·8	+
	Rungpore	Rungpore	29·542	29·609	+·005	ESE	94·0	92·8	10th ,,	77·2	12th ,,	91·4	79·0	85·2	+:
	Julpigoree / Cooch Behar	Julpigoree	29·378	29·660	+·005	?	?	91·4	14th & 15th Aug.	76·1	11 & 12 ,,	89·5	77·4	83·5	+:
North Behar.	Darjeeling Hill Tracts	Darjeeling	22·896	—	—·008	ENE	49·9	69·6	10th ,,	50·1	11th ,,	66·5	57·0	61·8	+(
	Purneah / North Bhagulpore	Purneah	29·502	29·623	—·015	South-easterly	59·0	91·2	15th ,,	77·4	13th ,,	89·8	78·8	84 3	+.
	Mozufferpore	Mozufferpore	29·417	29·597	—	E & ESE	202·7	91·3	11th ,,	78·2	9th ,,	89·2	80·3	84·8	—
	Durbhunga	Durbhunga	29·457	29·633	—·014	ESE	161·9	90·9	11th ,,	77·5	13 & 13 ,,	89·8	78·5	84·2	+(
	Chumparun	Motihari	29·412	29·639	+·014	ENE	178·5	92·2	11th ,,	78·9	9, & 11 & 14th Aug.	90·9	79·2	85·1	+·
	Sarun	Chupra	29·401	29·593	—·022	E	182·6	91·3	11th ,,	79·5	12th ,,	88·7	81·5	85·1	+·
South Behar.	Shahabad	Dehree	29·231	29·585	—·036	Variable	124·4	89·6	11 & 15 ,,	78·0	13 & 14 ,,	87·5	78·9	83·2	+(
		Buxar	29·363	29·595	—·021	E	160·5	89·9	12th ,,	77·2	9 & 13 ,,	88 1	78·2	83·2	+(
		Arrah	29·415	29·610	+·003	Variable	204·3	91·4	11th ,,	77·0	12th ,,	87·6	79·0*	84·1*	+(
	Gya	Gya	29·210	29·589	—·034	E	107·0	91·4	11 & 15 ,,	77·3	12th ,,	89·2	79·4	84·3	+(
	Patna	Bankipore	29·418	29·601	—·028	E	197·8	91·4	11 & 12 ,,	79·2	13th ,,	89·5	80·3	84·9	+(
	South Bhagulpore / Monghyr	Bhagulpore	29·438	29·600	—·028	South-easterly.	99·0	90·2	15th ,,	78·5	12 & 13 ,,	88·1	79·4	83·8	+(
	Sonthal Pergunnahs	Doomka	29·119	29·615	—·019	SE	113·0	89·1	10th ,,	75·8	12th ,,	87·2	77·4	82·3	—(
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·637	29·613	—·032	Variable	212·4	84·4	10th ,,	71·2	11 & 13 ,,	82·4	72·0	77·2	—1
	Lohardugga / Manbhoom	Ranchee	27·457	29 613	—·032	SW	136·5	83·0	10th ,,	69·4	14th ,,	81·8	70·5	76·2	—1
	Singbhoom	Chyebassa	28·830	29·595	—·030	WSW	47·4	83·9	15th ,,	71·7	15th ,,	87·0	75·2	81·1	—1
Assam.		Sibsagar	29·366	29·701	—·011	SSW		93·6	11 & 14 ,,	77·0	12th ,,	90·7	78·6	84·6	+1
	Assam	Dhubri	29·547	29·654	—·010	Variable	103·5	90·2	15th ,,	78·3	11 & 12 ,,	87·3	79·2	83·3	+1
		Silchar	29·593	29·698	—·018	Calm	44·6	93·0	12th ,,	75·3	13 & 14 ,,	91·1	76·4	83·8	+1

* Mean of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for The Assmidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The r are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

week ending Friday, the 15th of August 1890.

DISTRICT OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Average cloud amount at 9 A.M. for week.	Rainfall. Rainfall of week at observing station.	Rainfall. Of week. Mean for district.	Rainfall. Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Rainfall. Since 1st of month. Normal mean.	Rainfall. Since 1st of month. Variation.	Rainfall. Since 15th May 1890. Mean for district.	Rainfall. Since 15th May 1890. Normal mean.	Rainfall. Since 15th May 1890. Variation.	Rainfall. Average number of rainy days.	Rainfall. Normal number of rainy days.
Orissa.	Pooree	Pooree	8·0	3·66		2·76		6·11			28·22			4·5
		Gopalpore	3·7	2·61										
		False Point	8·3	2·35										
	Cuttack	Cuttack	7·7	2·50	3·41	2·34	4·94	5·43	—0·49	31·86	29·09	+2·77	5·4	4·4
	Balasore	Balasore	5·0	2·75	3·58	2·54	6·85	6·11	—0·26	30·61	30·10	+0·51	4·3	4·1
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	8·7	4·10	3·10	3·15	5·07	7·19	—1·52	29·93	34·67	—4·741	4·7	4·5
	Midnapore	Midnapore	4·3	2·11	1·31	2·55	2·35	6·99	—4·64	31·59	31 21	+0·38	4·3	4·2
	24-Pergunnahs / Howrah / Hooghly	Calcutta	7·4	2·34	2·83	3·02	5·82	6·65	—0·83	34·14	31·67	+2·47	4·8	5·0
	Burdwan	Burdwan	8·6	2·26	2·43	3·27	4·75	6·22	—1·47	42·31	28 20	+14·05	6 0	4·4
	Bankoora	Bankoora	7·4	1·26	1·70	2·88	2·50	7·31	—4·81	35·35	32·58	+2·77	5·0	4·5
	Beerbhoom / West Burdwan	Raneegunge	8·4	4·48	3·10	2·95	5·26	6·45	—1·19	40·26	31·45	+8·81	5·0	4·5
	Moorshedabad	Berhampore	9·6	3 24	2·46	2·32	5·35	6·10	—0·75	37·33	29 26	+8·07	3·7	4·5
	Nuddea	Krishnaghur	8·7	2·50	2·56	3·22	5·09	5·97	—0·88	32·70	29·46	+3·24	4·8	4·6
	Jessore / Khoolna	Jessore	9·1	6·77	3·28	2·91	5·35	6·39	—1·04	36·31	33·29	+8·02	4·6	4·8
East Bengal.	Chittagong	Chittagong	4·9	3·87	4·62	6·20	8·09	14 02	—5·93	86·10	80·02	+6·08	6·0	5·9
	Chittagong Hill Tracts	Demagiri				4·13		8·87			49·97			5·8
	Backergunge	Barrisal	8·1	2·17	2·73	3·87	5·42	8·84	—3·42	47·24	49 95	—2·71	5·8	5·3
	Noakholly	Noakholly	2·1	4·73	3·38	6·16	8·32	13·78	—5·46	61·02	60·14	—7·22	5 0	5·9
	Furreedpore	Furreedpore	5·0	1·06		2·50		5·98			34·82			4·6
	Dacca	Dacca	9·6	0·73	1·62	3·00	5·37	6·96	—1·59	42·02	38·27	+3·75	5·3	4·8
North Bengal.	Commillah	Tipperah	4·0	0·59	1·41	3·70	3·91	8·50	— 4 59	41·60	43·00	—1·40	3·8	4·9
	Mymensingh	Mymensingh	6·7	1·48	2·23	2·97	5·19	6·68	— 1·49	49·52	42·50	+6·02	4·6	4·6
	Bogra	Bogra	0·4	1·12	1·36	2·36	4·53	5·44	—0·91	38·72	35·00	+3·06	4·5	4·3
	Pubna	Serajgunge	8·3	0·77	1·51	2·73	2·04	5 18	—2·24	30·22	30·71	—0·49	6·0	4·4
	Rampore Beauleah	Rajshahye	3·4	0·99	0·88	2·37	3·14	5·57	—2·43	44·89	31·53	+13·36	5·0	4·6
	Maldah	Maldah	3·6	0·38	0·55	2·47	5·08	5·66	—0·58	30·06	32·31	—2·25	5·5	4·5
	Dinagepore	Dinagepore	7·7	0·19	0·93	3 04	5·59	6·11	—0·52	32·38	35·84	+6·54	3·2	4·6
	Rungpore	Rungpore	1·9	nil	0·22	2·80	4·54	5·90	—1·36	50·06	48·79	+1·27	1·5	4 0
North Behar.	Julpigoree / Cooch Behar	Julpigoree	1·4	0·71	0·84	5·61	6·29	11·53	—5·24	84·81	71·99	+12·82	2·0	5 0
	Darjeeling Hill Tracts	Darjeeling	8·9	3·13	3·20	7·08	9·94	15·02	—5·08	106·99	82·55	+24·44	5·0	5·5
	Purneah / North Bhagulpore	Purneah	6·0	0·55	0·40	3·30	4·83	6 86	—2·03	40·28	35·14	+11·14	2·4	4·2
	Mozufferpore	Mozufferpore	4·4	0 51	0·53	2·88	4·37	5·81	—1 44	34·59	26·04	+8·55	3·0	3·6
	Durbhunga	Durbhunga	5·3	0·09	0·45	2·70	4·64	5·56	—0·92	30·63	26·48	+13·15	2·3	3·6
	Motihari	Chumparun	5·1	nil	0·10	3·51	3·00	6·66	—3·66	42·76	28·29	+14·47	0·5	3·5
	Chupra	Sarun	3·8	1 10	0·43	2·52	6·31	5·54	+0·77	35·79	25·24	+10·55	1·0	3·5
South Behar.	Dehree / Buxar / Arrah	Shahabad	5·6 6·3 3·7	4·08 2·24 1·99	3·35	2·70	6·03	6·08	—0·05	33·30	23·20	+10·10	5·0	3·6
	Gya	Gya	5·3	1·74	4·45	2·58	6·27	5·98	+0·29	37·84	25·31	+12·62	5·3	3·2
	Patna	Bankipore	7·1	0·78	1·30	2·48	4·71	5·48	—0·77	29·90	25·14	+4·76	4·0	3·4
	Bhagulpore	South Bhagulpore / Monghyr	6·1	0 52	0·94	2·65	4·17	5·93	—1·76	35·88	26·23	+9·65	4·2	3·8
	Doomka	Sonthal Pergunnahs	3·6	3·79	2·21	2·43	6·39	5·69	+0·70	39·81	30·08	+9·73	4·5	4·5
Chutia Nagpur.	Hazaribagh	Hazaribagh	9·7	2·54	3·11	2·81	4·88	6·75	—1·89	33·11	29·77	+3 34	5·0	4·4
	Lohardugga / Manbhoom	Ranchi	9·9	2·41	3·21 3·64	2·67 3·10	6·25 4·64	6·91 7·34	—0·66 —2·70	30·97 29·19	23·03 20·24	+7·94 —0·05	5·0 5·5	4·9 4·2
	Singbhoom	Chyebassa	7·7	1·16	1·61	2·99	2·55	7·70	—5·15	24·10	32 88	—8·78	7·0	4·6
Assam.		Sibsagar	8·9	1·42										
		Dhubri	8·1	0·15										
		Silchar	9·3	8·07										

Years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
ding cloud amounts represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
Years. The means of the district are the numerical average of the rainfall return received in the district, &c., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 15th of August 189

Meteorological division.	District.	Station.	Rainfall. Saturday, 9th August.	Sunday, 10th August.	Monday, 11th August.	Tuesday, 12th August.	Wednesday, 13th August.	Thursday, 14th August.	Friday, 15th August.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	A r fr M
Orissa ...	Pooree ...	Pooree ...	0·18	2·13	0·78	0·09	.....	.....	.....	4	3·18	5·04	4·49	30·98	
		Khurdah ...	0·09	0·06	0·32	0·81	0·18	.....	.....	5	0·91	2·21	0·35	41·40	
		Banpur ...	2·00	0·94	0·08	.....	0·65						6·90		
		False Point ...	.....	0·09	0·34	0·91	0·67	0·19	0·06	6	2·25	3·10	0·71	28·08	
		Gop ...											?		
		Satpara ...	.....	2·15	0·45	0·48							?		
		Pipli ...													
	Cuttack	Jagatsingpore	0·53	1·50	.....	0·20	0·03	.....	...	4	2·26	4·81	5·60	30·05	
		Banki ..	0·75	.....	2·57	0·55	0·10	...	0·11	5	4·08	4 81	3·67	34·06	
		Cuttack ...	1·35	1·24	0·40	0·90	0·20	0·74	0·50	7	5·33	7·23	5·80	43·83	
		Kendrapara ...	.....	0·14	0·17	0·67	0·34	0·03	...	5	1·35	3·44	6·34	23·02	
		Jajpore ...	0·35	1·20	0·87	1·38	0·04	0·18	...	6	4·02	4·45	5·65	30·32	
		Dharmsala ...	0·70	0·62	1·15	.....	0·25	...	...	4	2 72	4·62	?	33·09	
		Salipore ..	0·43	0·13	0·50	0 28	0·45	0·02					?		
	Balasore ...	Chandbali ...	.....	.....	2·15	0·78	0·15	0·14	.....	4	3·22	4·93	6·34	27·98	
		Bhuddruck ...	0·30	.....	0·81	1·45	... ..	...	0·11	4	2·67	3·79	5·80	29·46	
		Sorah ...	.....	3 04	2·02	.....	.....	...	.....	2	5·06	7·26	6·24	32·54	
		Balasore ..	1·18	0·12	0·37	1·50	0·24	0·04	.....	6	3·25	5·90	6 93	31·85	
		Jellasore ..	2·10	1 50	0·10	1·10	.. ..	0·30	.....	5	5·10	7·80	5·96	31·55	
		Baripodah ...	0·73	0·10	.....	0·66	0·43	..	0·27	5	2·19	5·42	5 37	30·25	
South-West Bengal.	Midnapore ...	Contai ...	0·06	0·04	0·09	1·80	0·12	....	0·08	6	1·69	3·87	7·11	27·69	
		Sangor Island	0 21	.....	1·01	0·67	0·97	.....	0·04	5	4·10	6·54	7·75	29·99	
		Tumlook ...	.....	.....	1·10	0·30	... ..	...	.....	2	1·40	3·00	6·51	35·10	
		Midnapore ...	0·51	0·17	0·17	0·30	0·78	0·08	...	6	2·01	2·84	6 62	31·69	
		Ghattal ...	0·08	.....	0·08	0·16	0·06	... .	0·15	5	0·53	1·21	7·84	29·64	
		Kukrahaty ...	.....	.....	0·91	1·46	0·89	0·07	0·16	5	3·49	5·04	?	2·25	
		Garbetta ...	.....	.....	1·67	0·18	.....	0 17	.. ..	3	1·92	2·53	?	33·05	
	24-Pergunnahs	Diamond Harbour ...	.....	.....	1·42	1·66	0·44	...	. .	3	3·52	6·61	6·69	32·06	
		Canning Town	0·05	0·31	0·43	7·32	1·60	... .	0·31	6	10·02	11·81	?	40·07	
		Alipore Jail ...	... ..	.....	0·45	1·06	0·72	0·04	.....	4	2·27	5·52	6·64	35·19	
		Barrackpore...	... ..	0·22	0·34	0·70	0·07	0·05	.. .	5	1·38	4·24	6·66	29·30	
		Dum-Dum ...	... ..	.....	1·03	0 98	0·44	0·60	0·57	5	3·11	6 30	6·52	29·62	
		Baraset ..	0·10	....	0·78	0·72	0·40	0·14	...	5	2·14	5 87	5·95	30·38	
		Baseerhat ...	0·50	.....	0·36	0 98	1·70	.... .	2·68	5	6·27	7·47	6·79	39·18	
	Howrah ...	Howrah .	.....	.. ...	0·50	1·70	1·25	0·12	0·03	5	3·60	6·07	5·99	31·14	
		Mohesreka ...	....	.....	0·20	0·52	1·93	.. .	0·02	4	2 67	5·32	6·77	42·24	
		(*Ooloberiah*)													
	Hooghly ..	Seramporo ...	.....	0·08	0·62	0 35	0·29	·0·05	0·15	6	1·54	4·77	6·56	30·69	
		Hooghly ...	.....	0·03	0·26	0·94	0·20	.....	0·06	5	1·49	5·03	6·23	30·87	
		Jehanabad ..	1·18	.....	0·85	1·70	0·11	.....	.....	4	3·84	7·59	8·39	42·59	
	Burdwan ...	Culna ...	0·09	... .	0·48	0·60	0·11	0·23	0·18	6	1·69	3·63	6·02	36·23	
		Burdwan ...	0·21	0·03	1·31	0·12	0·36	0·04	0·19	7	2·26	5·98	6·82	49·29	
		Cutwa ...	0·39	... .	1·18	1·11	.....	0·10	0·57	5	3·35	4·63	5·86	41·40	
		Raneegunge ..	0·05	0·71	0·93	2·61	0·02	0·08	0·08	7	4·48	6·67	6·70	40·51	
		Mankur ...	0·06	.....	0·45	2·25	0·44	...	0·27	5	3·47	5·18	?	37·30	
	Bankoora ...	Bankoora ...	0·01	. .	0·87	0·31	0·01	0·04	0·01	6	1·25	1·75	7·78	39·22	
		Bishenpore ...	0·35	0 06	0·47	0·25	0·20	0·12	.....	6	1·45	2·04	7·57	34·91	
		Maliara ...	0·02	0·86	0·85	1·63	0·06	0·07	....	6	3·49	3·97	7·16	42·28	
		Khatra ...	.....	.....	0·41	0·20	... ..	.....	.....	2	0·61	2·22	6·73	24·93	
		Indas ..	.....	.....	0·87	0·60	1·17	... ..	... ..	3	2·18	3 27	?	44·13	
		Kotulpore ...	0·08	.....	1·52	.....	.....	.. ..	0·49	3	2·60	3·74	?	50·49	
		Anda	... ..	0·54	.....	0·25	... ..	0·30	..	3	1·09	1·39	?	33·55	
		Gangajalghati	.....	0·95	0·33	1·19	.....	.. ..	... .	3	2·37	4·23	?	40·35	
		Raipore ...	.....	.....	1·27	0·15	. . .	0·22	.....	3	1·64	4·15	?	35·87	
		Sonamukhi ..	0·19	.....	.....	1·05	1·35	... .	.....	3	2·59	3·43	?	38·22	
	Beerbhoom ...	Bh. Soory ..	.....	... ..	0·31	0·59	0·05	0·25	0·01	5	1·21	2·22	6·58	40·59	
		Heliampere ...	... ..	0·60	0·54	1·10	.....	0·10	.. ...	4	2·34	3·13	5·77	35·72	
		Rampore Haut	.....	0·82	2·00	1·05	.....	0·51	. . ..	4	4·38	9·03	6·74	44·14	
		Bolpore ...	.....	.....	1·21	1·55	0·27	0 05	0·36	5	3·84	5·57	?	38·86	
		Murarai ...											?		
	Nuddea ...	Ranaghat .	.....	0·32	0·21	0·30	0·22	.....	0·12	5	1·17	2·80	6·82	32·21	
		Kishnaghur ...	0·03	.....	0·20	0·41	1·05	0·35	0·45	6	2·55	6·62	5·50	30·17	
		Chooadanga ...	... .	... ..	0·23	1·98	1·00	.....	0·65	4	3·86	6·02	6 44	28·52	
		Meherpore ...	. . .	.....	0·25	1·65	0·30	... ..	0·70	4	2·90	6·12	5·58	33·69	
		Koolitee ..	0·05	0·03	0·20	1·85	0·20	... ..	.....	5	2·33	3·85	5·53	29·91	
	Khoolna ..	Satkhira ...	0·24	0·02	0·35	1·11	0·62	1·01	.....	6	3·35	5·47	6·26	37·32	
		Bagirhat ...	... ..	.....	0·60	0·90	0·42	.....	.....	3	1·92	4·12	7·26	46·01	
		Khoolna ...	... .	.....	0·03	0·41	0·43	.....	0·35	4	1·22	3·78	6 65	36·54	
		Nakipur ...	.....	0·48	... ..	2 15	0 26	... .	.. ..	3	2·89	4·31	?	40·13	
		Rampal ...	.....	....	0·27	1·12	0·28	1·65	0·09	5	3·41	5·00	?	41·45	
	Jessore ...	Narail ...	. ...	. .	0·07	4·11	0·26	... ..	0·11	4	4·55	6·19	6·89	35.35	
		Jessore ...	0·04	0·16	0·63	4·62	0·33	0·70	0·29	7	6·77	9·15	6·70	40·20	
		Jhenidah ...	0·18	0·16	0·09	1·43	0 27	.....	0·19	6	2·32	3·62	5·86	36·17	
		Magoorah ...	.....	.....	1·06	2·73	0·15	... ..	0·33	4	4·27	7·13	5·43	31·68	
		Bongong ..	.....	.....	0·32	0·95	.....	... ..	0·60	3	1·87	3·39	6·11	27·70	
	Moorshedabad	Kandi ...	... .	0·22	1·91	1 25	0·65	.....	.....	4	4·03	6·61	5·77	30·95	
		Berhampore ...	. .	.....	0·20	2 65	0·39	.. ..	...	3	3·24	5·20	6 67	37·00	
		Lalbagh ...	....	0·16	0·12	1·20	0·25	.....	. ...	4	1·73	4·67	6·08	40·23	
		Azimgunge ...	.....	.....	0·37	1·40	0·08	.....	... .	3	1·85	4·33	6·62	38·47	
		Jungipore ...	. . .	.....	0·56	0·11	0·35	0·70	. .	4	1·72	7·09	5·44	34·64	
		Lalgola ...	.....	.....	0·55	0·75	0·75	.....	0·15	4	2·20	4·30	6·05	38·71	
		Jiagunge ...											?		
		Akhriyanj ...	0·45	0·08	0·51	1·45	0·47	.....	0·34	6	3·31	6·05	?	40·36	
		Patkabari ...	...	.. .	2·50	1·50	.....	0·40	.. ...	3	4·40	5·20	?	33·10	
East Bengal	Chittagong ...	Cox's Bazar ...	0·03	0·40	2·30	2·99	0·20	. ....	0·05	6	5·97	7·46	10·18	93·87	
		Chittagong ...	0·07	0·77	1·03	0 70	..	0 09	0·51	6	3·26	8·72	11·84	78·26	
		Anwoodia ...	0·07	0·26									?		
		Sarkanga ...	0·30	1·10	0·80	1·50	0·25	0·07	0·56	7	4·58	9·06	?	59·71	
	Chittagong Hill Tracts	Rangamati ...	1 11	0·09	0·14	.....	0·13	0·40	0·12	6	1·19	9·13	9·04	40·56	
		Kassa ..	0·65										7·78		
	Backergunge	Patuakhally ..	0·21	0·75	0·94	0·65	0·60	.....	.....	5	3·15	5·61	9·69	50·02	
		Perozepore ...	0 20	0·08	0·17	1·77	0·31	0·29	0·28	7	3·10	5·68	8·51	47·80	
		Burrisal ...	0·17	0·16	0·47	1·08	0·27	0·50	.....	6	2·45	4·95	7·26	47·69	
		Bhola ...	0·12	0·40	0 30	1·16	0·22	.... .	.....	5*	2·20	5·43	9·89	42·54	

atement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 15th of August 1890 —contd.

ological ision.	District.	Station.	Rainfall. Saturday, 9th August.	Sunday, 10th August.	Monday, 11th August.	Tuesday, 12th August.	Wednesday, 13th August.	Thursday, 14th August.	Friday, 15th August.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May, 1890.	Average rainfall from 15th May to date.
BENGAL.		*Gournaddi*	.. ..	0·22	0·18	0·45	0·08	0·18	0·37	6	1·78	2·63	″	28·90	″
eld.		*Bauphal*	0·19	0·31	0 73	2·00	0·29	.....	0·23	6	3·75	5·93	″	40·66	″
	Noakholly	Noakholly	0·70	0·29	0·96	2·35	0·05	.....	0·22	6	4·64	7·24	13·99	56·23	68·73
		Fenny	0·15	.....	0·37	0·30	.....	.....	1·00	4	2·12	9·40	13·56	67·57	69·49
		Harishpore	0·75	1·80	4·00	2·18							″		″
		Ramganj	.. ..	0·10	1·30	0·70	... .	.....	.....	3	2·10	3·29	″	47·95	″
													6·80		36·39
	Furreedpore	Madaripore	.....	.....	0·41	.....	.. ..	0·33					5·92	27·17	35·35
		Furreedpore	0·08	0·32	0·37	0·27	0·03	1·25	.. ..	6	2·52	3·61	5 21	26·88	32·66
		Goalundo	.....	.....	0·32	0·63	0·13	... ..	0·25	4	1·33	2·08			
													8·83	.....	44·66
	Dacca	Munshigunge	0·42	.....	0·80	0·21	... ..	0·16	... .	4	1·59	5·06	6·83	41·16	34·77
		Dacca	0·18	0·10	0·19	0·40	0·04	0·02	...	6	0·93	5·02	5·94	47 72	38·78
		Naraingunge	0·35	....	0·51	0·22	.....	0·14	0·32	5	1·37	6·69	6·27	50·92	51·69
		Manickgunge	.. ...	0·52	0·18	1·04	0·05	0·16	0·62	6	2·57	3·79	″	43·62	″
		Joydebpore	0·17	0·41	0·39	0·10	... ..	... ..	0 21	5	1·28	5·83			
	Hill Tipperah.	Agartola	0·50	.....	0·35	...	0·28	0·50	0·85	5	2·48	4·26	6·31	44·36	36 50
	Tipperah	Comilla	0·02	... ..	0·03	.....	.....	... ..	0·36	3	0 41	3·01	9 88	44·47	50·86
		Chandpore	....	... .	...	... ..	1·40	0·20	1·60	2	1·60	6·30	11·70	40·70	47·26
		Brahmunberia	0·20	... .	0·04	0·10	0·10	.....	0·70	5	1·14	2·05	6·13	36·79	37·39
		Ramchandrapore	0·12	.....	0·78	0·10	.....	.....	0·44	4	1·44	6·04	″	53·03	″
		Nasirnagar											″		″
		Daudkandi	.....	.....	0·22	0·12	... ..	... .	... ..	2	0·34	2·44	″	20·47	″
		Kasba	... ..	.	0·25								″		″
		Laksham	.....	... ..	.	.....	... ..	0·65	0·25	2	0·90	2·53	″	51·43	″
	Mymensingh	Kishoregunge	0·05	2·64	.....	.....	.....	....	1·31	3	4·00	5·32	6·66	45·26	43·71
		Atia (*Tangail*)	.	.	0·48	0·35	...	... ..	0·42	3	1 25	2·46	6·30	36·20	34·18
		Mymensingh	0 04	0·22	0·07	0·22	0·31	0·03	0·68	7	1·60	4·30	6·11	50·66	45·47
		Jamalpore	0·54	0·20	.....	0·09	.....	...	0·14	4	0·97	3·89	6·13	48·45	37·83
		Netrokona	0·12	0 08	.....	0·12	0·04	0·19	2·78	6	3·32	9·09	8·23	66·74	51·37
		Subornakhali	.....	0·40	.....	... ..	... ..	.....		1	0·40		″		″
		Durgapore	.....	0·20	. .	.. ..	... ..	... .	4·45	2	4·61	10·35	″	77·53	″
		ShereporeTown	0·30	0·11	.. ...	. ...	.....	.....	1·22	3	0·63	2·71	″	39·89	″
		Dewanganj	... ..	.....	...	...	...	... ..	0·48	1	0·48	1·40	″	43·31	″
														27·18	29·84
ORTH ENGAL.	Pubna	Pubna	0·23	0·82	0·27	0·78	0·09	.....	0·09	6	2·27	3·57	5·12	33·21	31 56
		Serajgunge	0·22	0·03	0·25	0·04	0·09	.....	0·12	6	0·75	2·30	5·23		
	Bogra	Sherepore	0·49	... .	0·15	... ..	0·31	.....	0·78	4	1·73	3·14	5·9.	37·02	36·48
		Nowkhilla	0·84	0·13	0·18	0·14	0·04	... .	0·34	6	1·67	3·71	5·68	36·79	33·73
		Hogra	0·36	0·04	0·45	0·08	0·08	.....	0·12	6	1·13	4 41	4·79	36·07	38·25
		Panchbibi	.....	... .	0·61	0·30	... ..	.....	.....	2	0·91	6·84	5·36	44·00	34·12
														46·15	30·27
	Rajshahye	Beauleah	0·16	0·02	0·18	0·42	0·08	0·01		6	0·87	2·97	5·82	50·44	31·48
		Nattore	0·13	0·08	0·07	0·32	... ..	0·03	... ..	5	0·63	4·13	5·78	38 06	32·86
		Naogaon	0·03	...	0·50	0·45	0·15	.....	.	4	1·13	2·29	5 12	28·27	″
		Lalpore	1·42	0·12	0·81	0 23	0·30	.....	... .	5	2 88	3 70	″		″
		Manda			0 40	0·10							″		
	Maldah	Maldah	0·11	0·04	0·02	... ..	0·16	0·04	0·01	6	0·38	4·34	4·63	29·02	29·64
		Chanchal	0·04	.....	0·20	0·02	0 10	. ....	0·36	5	0·72	5·81	6 69	31·08	31·92
		Gajol	0·15	... ..	. ...	0·35	... .	.....	.....	2	0·50	3·93	″	36·46	″
		Sibganj	0·07	0·30	0·05	0 60	0·97	0·06	... .	6	2·05	4·20	″	38·05	″
	Dinagepore	Mohadebpore	. ...	0·63	0·29	0·25	0·12	.....	.....	4	1·29	2·18	6·56	35·09	34·54
		Churamon	...		. .		0·30	... .	0·27	2	0·63	5·35	5·98	42·18	32·08
		Ranigunge	0·55	.	.	.....	... ..	...	0·51	2	1·06	9·60	6 15	48·58	36 56
		Dinagepore	0·38	...	... .	0·07	0·07	...	0 11	4	0 65	5·96	6·96	43·93	41 78
		Balooghat	... ..	...	0·74	0·16	0·07	..	0·06	4	1·03	4·89	5·63	38 89	34·29
		Thakoorgaon	.....	...	0·86	... ..	.. ...	.. ..	.....	1	0·86	6·86	″	59·01	″
	Rungpore	Bhawanigunge (*Gyabandia*)	...	... ..	.....	0·16	... .	.....	.....	1	0·16	4·85	4·80	49·57	39·44
		Rungpore	.... .	.....	..	.	... ..	. .	0·02	1	0·02	2 40	6 24	44·18	49·20
		Kurigram	.....	.....	0·15	....	0·03	... .	... .	2	0·18	2·03	4 72	50·15	50·13
		Bagdogra (*Nilphamari*)	.....	.....	0·47	... ..	... .	0·04	.....	2	0·51	3·27	7·82	56·26	56·42
		Ulipore	.....	.....	.....	.....	.....	.....	.	Nil	Nil	5·46	″	43 71	″
													12·42	89·96	74·56
	Julpigoree	Julpigoree	0·45	.....	0·47	.....	. ...	.....	... ..	2	0·92	4·33	″	100·60	″
		Alipore Dooar	... ..	.....	0·12	....	.....	... ..	0·03	2	0 15	3·54	″	88·96	″
		Fallacotta	.....	.....	0·11	.....	.....	... ..	.....	1	0·11	1 07	″	60·99	″
		Debigani	. ....	.....	.....	... ..	.....	.....	0·32	1	0·32	4·81			
		Bhagatpore (*Nagrakatta*)	0·95	... ..	1·70	0·19	... .	.....	1·60	4	4·44	7·78	″	100·77	″
					0·22		0·03	.....		2	0·25	5·86	8·88	66 73	62·14
	Cooch Behar.	Dhubaria	.....	.....	0·30	.....	.....	.....	... ..	2	1·67	7·49	11·11	89 19	79·42
		Cooch Behar	.....	.....	0·12	.....	0·42	.....	1·37	3	0·79	6·09	12·72	81·80	69·08
		Mekligunge	0·25	... ..	0·56	.....	.....	... ..	... ..	1	0·56	7·09	12·49	95·80	74 73
		Mainbhanga	.....	... ..	1·40	0·14	0·08	0·04	.....	7	6·00	13·97	22·77	124·91	129·73
		Buxa	0·05	0·01	.....	.....	..	... ..	4·28	2	0·31	4·76	14·53	113·25	75·10
	Darjeelin Hill.	Silliguri	0·25	.....	1·50	0·79	0·07	0·04	0·05	7	3·13	12·97	15·09	106 47	69·98
		Darjeeling	0·57	0·01	2·16	1·10	.....	.....	0·09	4	3·36	8·02	9·79	85·31	55·06
		Kalimpong	0·08	... ..	0·34	0·50	0·41	0·05	0·02	6	2·06	12·56	″	131·56	″
		Kurseong	0·10	.....					1·24						
													8·49	55·49	44·41
EHAR	Purneah	Kissengunge	0·05	.	0·20	0·12	.....	.....	.....	3	0·36	7·61	6 87	46 25	38·99
		Arraria	.....	... ..	... .	... ..	0·21	.....	.....	1	0·21	5·42	6·88	47 08	35·20
		Purneah	.....	.....	0·02	0·15	0·37	0·01	.....	4	0·55	5·32	″		″
		Gondwara	... ..	.....	0·20	0·07	... .	... .	... ..	2	0·27	12·72	″	53·01	″
		Balarampore	... ..	.....									″		″
		Matiari	0·20										″	62·73	″
		Kahagani	.....	... .	0 50	.....	0 10	0·35	0·16	2	0·60	4·44	6·05	48·35	28·58
	North Bhagulpore.	Maddapore	.....	0·34	... .	... ..	... .	... .	... .	3	0·87	3·64	6·60	38 40	28·57
		Soopool	...	...	0·37	. .	0·08	... .	.	2	0·45	2·30	″	30·28	″
		Protabganj	.....	0·23	...	....	.....	... .	..	1	0·23	2·07			
													5·53	36·01	26·28
	Durbhunga	Tajpore	0·04	... ..	.....	... ..	0·10	.....	...	2	0·14	4·50	5 88	39 47	20·95
		Durbhunga	... ..	.....	0·03	.....	0 06	.	0·10	2	0 09	4·14	5·...	43·...	20·20
		Madhubani	0·24	... ..	0 78	.....	... ..	0·10	.	3	1·12	5·25	″	... 79	″
		Rahera	... .	.....	.... .	.....	.....	... .	0·97	1	0 10	1 03		30·39	″
		Koshera	.....	... ..	... ..	.....	... .			1	0·97	4·13			
													6 04	31·13	26·13
	Mozufferpore	Sitamarhi	0·03	... ..	0·40	.....	.....	... ..	... .	2	0·42	2·81	5·45	39·34	26·23
		Mozufferpore	0·33	.....	0·08	0·15	0·13	... ..	....	4	0·68	6·32	5·05	33·29	25·71
		Hajipore	.....	... ..	0·27	0·13	0·09	... ..	... .	3	0·49	3·62	″	39·10	″
		Para	.....	... .	.... .	.....	.....	... ..	... .	Nil	Nil	6·74	″	32·08	″
		Mahua	.....	....	... ..	... ..	.....	... .	.....	Nil	Nil	3·29	″	31·08	″
		Sishar	.....	.....	0·80	.....	.....	.....	.....	1	0·80	1·40	″	35·05	″
		Pusri	.....	... ..	0·45	... ..	.....	.....	.....	1	0·45	2·44	″		″

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 15th of August 1890—co

Meteorological Division.	District.	Station.	Rainfall. Saturday, 9th August.	Sunday, 10th August.	Monday, 11th August.	Tuesday, 12th August.	Wednesday, 13th August.	Thursday, 14th August.	Friday, 15th August.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	A r fro
North Behar —*concluded.*	Chumparun...	Motihari ...	. ...	... .	.....	. ....	.....	.....	.....	Nil	Nil	2·22	6·80	44·50	
		Bettiah ...	.....	.....	0·19	.....	.....	.....	.....	1	0·19	3·77	6·51	40·96	
		Bagaha ...	0·31	... ..	.....	.....	0·01	.....	.... .	2	0·32	2·64	?	49·79	
		Burhurwa ...	0·02	.....	.....	.....	.....	.....	.....	1	0·02	2·09	?	39·06	
	Sarun ...	Gopalgunge ...	.....	.....	.. ..	... ..	.....	.....	. ....	Nil	Nil	8·46	5·50	34·20	
		Sewan ..	.....	.....	0·19	.....	.....	.....	.... .	1	0·19	6·56	5·64	38·51	
		Chuprah ...	... ..	0·17	0·92	.....	.....	.....	... ..	2	1·09	3·91	5·49	34·66	
South Behar	Shahabad	Buxar ...	0·14	0·56	0·05	2·02	0·14	0·11	.....	6	3·02	6·98	5·36	32·60	
		Dehree ..	0·53	0·23	.....	... ..	2·90	0·37	... .	4	4·03	4·09	6·12	27·94	
		Bhaboosh ...	0·02	0·48	...	2·50	0·60	.....	.....	4	3·60	4·99	6·40	27·30	
		Sasseram ...	0·60	0·12	..	0·02	2·32	0·58	.....	5	3·70	5·15	6·76	28·92	
		Arrah ...	0·13	.....	0·02	1·09	0·72	0·16	0·24	6	2·36	8·38	5·80	50·15	
		Mohanich ...	.....	.....	.... .	2·15	0·20	.....	.....	2	2·35	3·30	?	23·46	
	Gya .	Aurungabad...	2·55	0·05	0·31	0·80	5·42	0·29	.....	6	10·32	12·19	6·49	36·27	
		Gya ...	0·03	0·01	0·31	0·90	0·43	... ..	. ....	5	1·74	3·41	5·54	36·14	
		Nowadah ...	. ..	0·05	1·90	0·57	0·27	.....	0·07	5	2·86	4·24	5·26	30·99	
		Johanabad ...	0·05	.....	0·16	2·30	0·35	0·07	0·02	6	2·95	5·29	6·61	38·95	
		Arwal ...	0·20	0·10	1·50	1·40	..	...	.....	4	3·20	9·40	?	38·03	
		Daudnagar ...	0·70	.....	. ..	0·10	0·10	0·25	. ....	4	1·15	2·25	?	18·25	
		Sherghati ...	.....	0·50	0·05	.....	1·45	.. ...	.. .	3	2·00	6·20	?	22·87	
		Rajauli ..	.....	.....	0·25	2·50	0·42	.....	.. ..	3	3·17	8·38	?	34·79	
		Pakri Barawan	0·20	.....	.....	1·90	0·20	.....	.....	3	2·30	5·30	?	38·78	
	Patna .	Patna ...	.....	.....	0·15	0·30	0·11	0·22	... .	4	0·78	4·67	5·61	31·25	
		Dinapore ..	. ....	. . .	0·46	0·86	0·37	...	...	3	1·69	5·16	5·67	29·49	
		Behar ...	0·08	0·13	0·17	0·28	0·11	0·26	0·40	7	1·43	4·95	5·28	32·83	
		Barrh ...	0·60	. ..	0·70	...	.....	...	.....	2	1·30	4·16	5·23	25·87	
		Bickram ...	.....	. .	.....	0·57	0·25	0·27	0·25	4	1·34	6·56	?	42·04	
		Hilsa ...	... .	.....	0·75	0·16	0·15	... .	0·23	4	1·29	4·26	?	34·03	
	Monghyr ...	Begoosarai ...	0·07	... ..	0·09	0·37	.....	.....	.....	3	0·53	2·79	5·30	28·39	
		Monghyr ..	0·35	.....	0·02	0·21	... ..	.....	.....	3	0·58	3·18	5·73	38·91	
		Jamui ...	0·08	.....	1·09	0·44	0·09	0·14	.....	5	1·84	3·13	6·48	44·27	
		Gogrs ...	... ..	... .	.....	0·60	.....	.....	.....	1	0·60	8·59	?	51·04	
		Sheikpura ...	0·27	.....	0·50	0·63	0·36	0·52	.....	5	2·28	9·88	?	30·71	
	South Bhagulpore	Bhagulpore ...	0·05	.....	0·07	0·20	0·08	0·17	.....	5	0·57	7·41	6·00	38·47	
		Banka ..	0·31	.....	0·09	0·40	0·18	0·20	.....	5	1·18	4·34	6·06	29·30	
		Kelgaon ...	0·05	.....	0·15	0·05	0·11	... ..	.....	4	0·36	3·28	?	4 1·04	
		Bangaon ...	1·90	.....	.....	... ..	.....	.....	.....	1	1·90	6·35	?	47·13	
	Sonthal Pergunnahs.	Rajmohal ...	.. ..	... .	.....	0·23	.....	0·11	.....	2	0·34	5·24	4·22	31·30	
		Godda ...	0·12	.....	... .	0·95	0·60	0·06	.....	4	1·73	4·46	5·56	35·60	
		Pakour ..	0·03	.....	0 22	0·37	0·73	0·20	.....	5	1·55	6·92	4·67	46·31	
		Nya Doomka	0·10	.....	0·73	2·25	0·58	0·13	.....	5	3·70	12·04	7·15	47·09	
		Deoghur ..	0·03	... .	0·07	0·23	0·11	0·04	.....	5	1·08	3·52	0·58	33·58	
		Jamtara ...	0·45	0·12	0·86	2·75	0·33	....	0·27	6	4·78	6·18	5·97	44·99	
		Mohagama ..	.. ..	... ..	0·26	0·11	0·15	0·19	.....	4	0·71	4·53	?	?	
		Numhat ...	.....	0·35	0·26	. ...	.	.....	. . .	2	0·61	3·24	?	20·81	
Chutia Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	0·12	.. ...	0·37	1·28	2·10	0·20	.....	5	4·07	6·43	6·83	42·39	
		Hazaribagh ...	0·66	0·06	1·11	0·32	0·33	0·06	... .	6	2·54	4·54	7·20	34·41	
		Semagurah	0·38	0·18	0·49	0 40	0·15	.....	.....	5	1·60	2·09	5·33	24·75	
		Mahudi Hills											0·48		
		Jhoomra Hills	0·30	1·40	0·10	1·60	1·00	... ..	.....	5	4·40	7·30	7·83	42·10	
		Barka ...	.....	0·40	0·05	1·15	.....	0·46	. ....	4	2·06	6·41	?	32·93	
		Chatra ...	0·45	1·10	.. ..	...	.....	3·62	...	3	5·17	6·04	?	31·46	
		Karaydeha ...	0·17	... ..	2·20	1·04	1·75	0·05	0·03	6	5·24	7·01	?	41·65	
		Kamghar ...	.....	.....	... ..	4·55	....	.....	.....	1	4·55	7·05	?	29·11	
	Lohardugga ...	Lohardugga ...	0·71	0·22	.....	1·50	0·33	.....	.... .	4	2·76	6·99	7·21	36·31	
		Ranchi ...	0·68	0·48	0·31	0·13	0·24	0·42	.....	6	2·26	5·02	7·49	29·00	
		Palamow ..	2·23	0·36	0·34	0·85	0·83	.....	.....	5	4·61	6·75	6·05	33·62	
		Silli ...	1·40	1 50	1·50	0·90	1·30						?		
		Balumat ...											?		
		Hossenabad...	1·00	1·04		3·41	0·50						?		
		Garwah ..	0·20	0·22	0·98	0·10							?		
	Singbhoom	Chyebassa ...	0·13	0·67	0·04	0·32	0·39	0·04	0·04	7	1·61	2·55	7·70	24·10	
		Chakradharpore.											?		
		Ghatsilla ...	0·50	0·65	.....	0·25							?		
		Baharagura...	0·11	1·59	0 46	0·83		0·10	0·46				?		
	Manbhoom ..	Puruha ...	0·02	0·15	3·45	1·52	0·18	0·12	.....	6	5·39	6·14	7·86	32·90	
		Golmdpore ..	0·04	. ...	0 31	0·76	0·75	0·03	.....	5	1·89	3·13	6·82	25·38	
		Raghunathpore.	.....	1·50	1·40	4·15	.....	.....	.....	3	7·05	10·13	?	44·33	
		Barrabhoom	...	....	0·80	0·12	0·12	0·30	.....	4	1·34	1·89	?	31·58	
		Jhalda ...	2·42	0·37	1·92	2·32	1·48	..	.....	5	8·41	10·83	?	40·04	
		Chas ...	1·67	0·12	2·90	0·10	0·13	0·31	.....	6	5·23	6·90	?	34·74	

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of th are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 19th August* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 15TH OF AUGUST 1890.

WEATHER conditions during the past week have remained settled throughout, and the only noticeable features are—

1. A very shallow depression formed in the north-west corner of the Bay about the beginning of the week, and though wind velocity hardly increased, it was accompanied by a very local cyclonic circulation of winds, and seems to have had considerable influence on the rainfall distribution.

2. Pressure has generally been slightly below the normal, the deficient distribution being due to the passage of the low-pressure area over the province.

3. Temperature has been above the normal in North Bengal, Behar, and Assam, normal in East Bengal, and below elsewhere.

4. Rainfall has been very deficient in North Bengal and North Behar, considerably below the normal in East Bengal, slightly below in South-West Bengal and South Behar, and above in Orissa and Chutia Nagpur.

At the commencement of the week pressure distribution was very nearly normal, and a steady slow fall was general, the changes being above a twentieth of an inch in the north-east corner of the Bay. The normal circulation of winds prevailed, except that easterly winds were blowing over the whole of South-West Bengal and Chutia Nagpur. This showed that the current of air was being deflected more to the west than usual, and to this may be due the fact that for the greater part of the week very little rain has fallen at the northern stations. On the 10th a brisk fall of pressure occurred in the north-west corner of the Bay, and though defect of rather more than a twentieth of an inch was general over the northern half of the Bay, and a smaller defect over Bengal, a cyclonic circulation of winds obtained in Lower Bengal. General rain was falling in Orissa and East Bengal and some of the central districts, but elsewhere only scattered showers were being reported. On the 11th the shallow depression was over the centre of Bengal, and westerly winds had commenced in the south-western districts, while rainfall had become much more general in all districts. After this the low pressure area slowly drifted in a westerly direction, being over parts of Chutia Nagpur, South Behar, and South-West Bengal on the 12th, over Chutia Nagpur and South Behar on the 13th, in the North-Western Provinces on the 14th. Rain continued to fall at all stations in Orissa till the 12th, in South-West and East Bengal, Chutia Nagpur, and South Behar till the 13th, but in North Bengal and North Behar the 11th was the only day of the week on which fairly general rain was received, except in Pubna, Bogra, Rajshahye, and Maldah, where the distribution was similar to that in the southern districts.

Pressure—Has generally been below the normal in consequence of the low-pressure area within which defect was a little over a twentieth of an inch, having moved first from the head of the Bay into Central Bengal, and thence in a westerly direction over Chutia Nagpur and South Behar. Defect in mean pressure is therefore greatest in South-West Bengal, Chutia Nagpur, and South Behar, where it averages ·03 inch, while in the other districts it is smaller and rarely over ·01 inch.

Temperature—Changes have generally been small, and the differences from the normal very slight in South Behar and East Bengal. There has been a small excess in North Bengal and North Behar throughout the week, and a similarly steady defect in Orissa and Chutia Nagpur. A steady rise was fairly general in the northern districts on the 9th and 10th; but as rainfall extended over the province, a fall occured in all districts on the 11th and 12th, after which a slow rise prevailed, first in the eastern districts, and then over the whole province, till the end of the week. Mean excess amounts to 1·5° in Assam, 1·3° in North Behar, and ·9° in North Bengal, while defect is 1·5° in Chutia Nagpur and ·9° in Orissa.

Rainfall—Has been general in Lower Bengal during the greater part of the week, and very scattered in the northern districts. The average fall in Orissa is ·7 inch above the normal and in Chutia Nagpur ·4 inch, and though falls in the other districts have been all deficient, the difference from the normal is small in South-West Bengal and South Behar. The falls in East Bengal, North Bengal, and North Behar are, however, considerably below the normal, as shown by the following numbers which give the percentage of the normal fall for the week:—North Bengal 27, North Behar 14, East Bengal 62.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 15th of August 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	90·9	75·1	86·9	78·0	82·5	—0·9	3·21	2·53	+0 68	4·8	4·3	+0·5	5·11	5·88	31·28	29·02
South-West Bengal ...	91·3	75·1	87·5	78·1	82·8	—0·5	2·65	2·91	—0·26	4·7	4·6	+0·1	4·96	6·53	35·50	31·38
East Bengal	89·6	74·8	86·5	76·8	81·7	0	2·33	3·76	—1·43	5·0	5·2	—0·2	5·53	8 53	48 79	47·67
North Bengal	92 8	76·1	88·5	78·8	83 7	+0·8	0·88	3·25	—2·37	3·5	4 6	—1·1	4 65	6·87	49·84	43·90
North Behar	92·2	77·4	89·7	79·7	84·7	+1·3	0·42	2·99	—2·57	2·0	3 8	—1·8	4·73	6 15	40·51	29·97
South Behar	91·4	75·8	88·2	79·1	83·7	0	2·41	2·57	- 0·16	4·6	3·5	+1·1	5·60	5·84	35·52	26·22
Chutia Nagpur	84·4*	69·4*	82·1*	71·3*	76 7*	—1·5*	3·17	2 81	+0·36	5·3	4·2	+1·1	5·37	6·99	32·05	29·75
Assam	93·6	75·3	89·7	78·1	83·9	+1·5										

* Chyebassa not included.

Meteorological Office, Bengal ; C. Little,
The 19th August 1890. *Offg. Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 10th to 16th August 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
August ...	10th ...	29·582	83·9	90·0	12·2	77·8	82 6	79·5	·968	78·3	87	..
,, ...	11th ...	·620	80·7	84·0	6·7	77·3	80·4	78·5	·951	77·7	91	0·20
,, ...	12th ...	·609	81·4	85·9	9·1	76·8	80·6	78·5	·949	77·6	91	1·35
,, ...	13th ...	·611	82·9	89·0	12·2	76·8	85·6	81·5	1·022	79·9	85	0·62
,, ...	14th ...	·632	84·4	90·0	11·2	78·8	84·6	81·5	1·036	80·3	87	0·04
,, ...	15th ...	·678	84·2	90·0	11·7	78·3	88·2	81·5	·986	78·8	74	0·06
,, ...	16th ...	·700	85·1	91·0	11 8	79·2	88·2	82·5	1·035	80 3	77	...

		Inches.
The mean 10 A.M. pressure of the seven days		29·633
		°
The mean temperature of the seven days		83·2
The extreme variation of temperature		14·2
The maximum temperature		91·0
		%
The mean 10 A.M. relative humidity of the seven days		85
		Inches.
The total fall of rain from 10th to 16th August 1890		2·27

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 18th August 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 10th to 16th August 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
1890. Aug.	10th	145·5	3·9	29 533	82·2	87 0	9·6	77·4	79·3	0·963	78·1	87	E, calm and variable	68	0·36	Chiefly cloudy, o, d, t, p.
,,	11th	118·1	Nil	·568	80 5	81·7	4·5	77·2	78·4	·946	77·5	91	SW, SSW and calm	78	0·17	Cloudy, o, g, d, p.
,,	12th	137·3	,,	·555	79·9	82·7	6·6	76 1	78·0	·937	77·3	92	SSW, SW and variable.	103	1·70	Cloudy, o, g, d, p.
,,	13th	155·5	4·5	·564	82 0	87 6	11·6	76·0	79·5	·974	78 4	89	SSE and calm ..	27	0·10	Chiefly cloudy, o, p.
,,	14th	154 0	6·0	·590	82 9	88·5	10·2	78 3	80·0	·984	78·7	87	SE by S, SSE and calm.	54	0·01	Partially cloudy, d, t.
,,	15th	144·3	6·4	·632	83·7	87·7	10·3	77·4	80 0	·978	78·6	85	SSW, S and calm ...	71	Nil	Partially cloudy.
,,	16th	151 5	10·3	·652	84·6	88·6	9·7	78·9	80 5	·983	78 9	83	SSW and S ..	137	,,	Partially cloudy.

	Inches.
The mean pressure of the seven days	29·585
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·590
	Hours.
The total number of hours of bright sunshine	31·1
The maximum possible number of hours of sunshine	90·4
	°
The mean temperature of the seven days	82·3
The average temperature of the corresponding period for 24 years, S.-G.'s Office	83·1
The extreme variation of temperature	12·6
The maximum temperature	88 6
	Miles.
The highest velocity of the wind in one hour	13
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	88
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	86
	Inches.
The total fall of rain from 10th to 16th August 1890	2 34
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	3·85
The total fall from 1st January to 16th August 1890	36·59
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	42·29

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; t, thunder; p, passing temporary showers.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 18th August 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 2nd August 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 2nd August 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 15·3 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 6·6 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	25·7	21·5	23·8	19·4	19·2	21·9	15·3

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 12th July 1890.	19th July 1890.	26th July 1890.	2nd August 1890.	Towns.	Weeks ending— 12th July 1890.	19th July 1890.	26th July 1890.	2nd August 1890.
Burdwan	13·7	30·5	12·2	13·7	Naraingunj	20·7	16·6	29·0	24·8
Midnapore	23·2	29·4	7·7	15·5	Chittagong	28·2	4·7	14·1	4·7
Hughli and Chinsurah	18·1	32·8	23·0	14·8	Comillah	8·8	7·7	15·4	15·4
Serampore	13·7	31·4	25·6	27·5	Patna City	11·4	11·4	12·7	14·9
Utterpara	...	28·3	18·9	18·9	Gya	20·4	20·0	33·5	17·8
Howrah	17·2	14·3	15·5	17·8	Arrah	23·9	17·9	19·1	13·2
Bali	28·1	3·5	14·0	10·5	Mozufferpore	18·2	15·8	13·4	14·6
Krishnagar	17·0	15·1	11·4	5·7	Durbhanga	22·8	18·9	27·5	19·7
Ranaghat	18·0	12·0	12·0	6·0	Chupra	12·1	20·1	11·1	6·0
Santipore	10·5	10·3	10·5	14·0	Bhagulpore	19·9	25·3	18·1	18·1
Jessore	6·1	18·4	6·1	18·4	Monghyr	38·9	33·4	41·6	22·5
Rampore Beauleah	18·4	23·6	18·4	31·5	Purneah	3·5	6·9	20·8	10·4
Darjiling	37·0	22·2	22·2	7·4	Poori	14·7	10·5	18·9	6·3
Dacca	9·7	15·6	9·7	11·0	Total ...	18·2	19·1	18·2	15·3

It will be seen that last week the highest birth-rate was returned from Rampore Beauleah (31·5), and the lowest from Chittagong (4·7).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 19·2 per 1,000 of the population. The rate of the week is 13·6 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	44·1	28·2	40·3	22·6	29·0	32·8	19·2

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 12th July 1890.	19th July 1890.	26th July 1890.	2nd August 1890.	Towns.	Weeks ending— 12th July 1890.	19th July 1890.	26th July 1890.	2nd August 1890.
Burdwan	22·9	19·8	27·5	19·8	Naraingunj	24·8	16·6	16·6	16·6
Midnapore	23·2	35·6	17·0	7·7	Chittagong	39·9	18·8	18·8	11·7
Hughli and Chinsurah	21·3	19·7	24·6	26·3	Comillah	20·9	20·9	38·5	26·9
Serampore	29·4	45·1	39·3	51·0	Patna City	14·9	14·6	18·8	13·0
Utterpara	18·9	56·6	47·2	37·7	Gya	32·1	32·1	37·6	44·4
Howrah	11·5	16·0	13·7	10·9	Arrah	35·9	23·9	39·5	8·4
Bali	3·5	7·0	21·1	14·0	Mozufferpore	31·6	29·2	32·8	15·8
Krishnagar	3·8	3·8	11·4	5·7	Durbhanga	23·6	32·3	25·2	16·6
Ranaghat	18·0	24·0	12·0	24·0	Chupra	21·1	10·1	18·1	11·1
Santipore	8·8	17·5	15·8	17·5	Bhagulpore	15·4	10·0	22·6	14·5
Jessore	30·6	42·8	12·2	12·2	Monghyr	25·3	20·2	25·3	15·4
Rampore Beauleah	10·5	5·2	23·6	15·8	Purneah	13·9	10·4	10·4	13·9
Darjiling	22·2	37·0	29·3	88·9	Poori	65·0	44·1	35·7	33·6
Dacca	15·6	23·4	15·6	27·2	Total ...	21·4	22·0	23·1	19·2

It will be seen that last week the highest mortality occurred in the town of Darjiling (88·9), and the lowest in Krishnagar (5·7).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Santipore	10 5	Darjiling	44·5	Gya	21·2
Arrah	4 8	Comillah	23·1	Serampore	17·7
Chupra	4·0			Poori	16·8
Dacca	3·9			Dacca	11·7
Durbhanga	3 9			Hughli and Chinsurah ...	11·5
Gya	2·7				
Patna City	2·6				

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2·1 from cholera, against 3·3 per 1,000 in the preceding week; ·04 from small-pox, against ·1; 7·4 from fever, against 10·2; 2·4 from bowel-complaints, against the same ratio; ·8 from injury, against ·9; and 6·4 from other causes, against 6·2 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	21·0	Christians ...	44·8	Under 1 year ...	159·8
Females	17·3	Hindus ...	19·1	1 and under 5 years ...	26·9
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	121	Mahomedans ...	19·1	5 „ 10 „ ...	11·3
				10 „ 15 „ ...	10·3
				15 „ 20 „ ...	8·4
				20 „ 30 „ ...	11·1
				30 „ 40 „ ...	13·1
				40 „ 50 „ ...	15·4
				50 „ 60 „ ...	16·8
				60 years and upwards ...	46·7

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 18th August 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 2nd August 1890.

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.														Sex.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.											
		Males.	Females	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	7	2	9	10·7	3·0	13·7	350	..	..	7	1	1	4	13	.	..	10·7	1·5	1·5	6·1	19·8	27·5	7	6	20·2	19·5	103
Midnapore ...	Midnapore ...	16,927	16,633	33,560	4	6	10	6·2	9·3	15·5	66	...	...	2	1	...	2	5	...	...	3·1	1·5	...	3·1	7·7	17·9	2	3	6·1	9·4	65
Hughli ...	Hughli and Chinsurah.	15,658	15,829	31,687	6	3	9	9·8	4·9	14·8	200	...	...	7	1	1	7	16	...	...	11·5	1·6	1·6	11·5	26·3	24·6	11	5	36·1	16·4	220
Serampore ...	Serampore ...	13,559	12,937	26,496	12	2	14	23·6	3·9	27·5	600	2	.	10	5	...	9	26	3·9	...	19·6	9·8	...	17·7	51·0	39·3	17	9	65·2	36·2	180
	Utterpara	3,046	2,464	5,510	...	2	2	...	18·9	18·9	No male birth.	...	...	...	1	...	3	4	...	...	...	9·4	...	28·3	37·7	47·2	2	2	34·1	42·2	81
Howrah ...	Howrah	53,153	37,660	90,813	19	12	31	10·9	6·9	17·8	158	...	...	7	5	2	5	19	..	..	4·0	2·9	1·1	2·9	10·9	13·7	9	10	8·8	13·8	64
	Bali	7,836	6,979	14,815	2	1	3	7·0	3·5	10·5	200	...	..	2	1	...	1	4	...	..	7·0	3·5	...	3·5	14·0	21·1	4	...	26·5	...	No female death.
Nuddea ...	Krishnagar ..	13,263	14,214	27,477	2	1	3	3·8	1·9	5·7	220	...	...	2	...	1	...	3	...	...	3·8	...	1·9	...	5·7	11·4	1	2	3·9	7·8	53
	Ranaghat	4,028	4,655	8,683	...	1	1	...	6·0	6·0	No male birth.	..	..	1	1	...	2	4	...	...	6·0	6·0	...	12·0	24·0	12·9	3	1	38·7	11·2	345
	Santipore	13,708	15,979	29,687	6	2	8	10·5	3·5	14·0	300	6	..	2	1	1	...	10	10·5	...	3·5	1·7	1·7	...	17·5	15·8	3	7	11·4	22·8	50
Jessore ..	Jessore	4,330	3,665	8,495	1	2	3	6·1	12·2	18·4	50	...	...	1	1	...	...	2	...	...	6·1	6·1	...	...	12·2	12·2	1	1	10·8	14·2	76
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	3	9	12	7·9	23·6	31·5	33	..	...	4	1	...	1	6	...	...	10·5	2·6	...	2·6	15·8	23·6	4	2	19·3	11·5	167
Darjiling ...	Darjiling	4,579	2,439	7,018	1	...	1	7·4	..	7·4	No female birth.	..	...	6	3	...	3	12	...	...	44·5	22·2	...	22·2	88·9	23·2	6	6	68·1	127·9	53
Dacca ...	Dacca	42,782	37,379	80,161	6	11	17	3·9	7·1	11·0	54	6	1	13	3	1	18	49	3·9	·6	8·4	1·9	·6	11·7	27·2	15·6	23	19	28·0	26·4	106
	Narainganj ...	7,605	4,956	12,561	2	4	6	8·3	16·5	24·8	50	...	...	2	...	...	2	4	...	...	8·3	...	...	8·3	16·6	16·6	2	2	13·7	21·0	65
Chittagong ...	Chittagong ...	13,340	8,790	22,130	1	1	2	2·3	2·3	4·7	100	...	...	3	1	...	1	5	...	...	7·0	2·3	...	2·3	11·7	18·3	4	1	15·6	5·9	264
Tipperah ...	Comillah	8,153	5,353	13,506	2	2	4	7·7	7·7	15·4	100	...	..	6	..	.	1	7	..	...	23·1	...	...	3·8	26·9	38·5	5	2	31·9	19·4	164
Patna	Patna City ...	78,762	81,475	160,237	29	17	46	9·4	5·5	14·9	170	8	...	11	7	3	11	40	2·6	...	3·5	2·3	1·0	3·5	13·0	18·8	24	16	15·8	10·2	154
Gya	Gya	38,290	37,831	76,121	13	13	26	8·9	8·9	17·8	100	4	...	24	5	1	31	65	2·7	...	16·4	3·4	·7	31·2	44·4	37·6	41	24	55·7	33·0	162
Shahabad ..	Arrah	20,960	22,505	43,465	6	5	11	7·2	6·0	13·2	120	4	...	1	1	...	1	7	4·8	...	1·2	1·2	...	1·2	8·4	39·5	2	5	5·0	11·6	43
Mozufferpore .	Mozufferpore ...	23,084	19,658	42,742	9	3	12	10·9	3·6	14·6	300	3	...	4	1	1	4	13	3·6	...	4·9	1·2	1·2	4·9	15·8	32·8	9	4	20·3	10·6	191
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	12	13	25	9·4	10·2	19·7	92	5	...	8	3	...	5	21	3·9	...	6·3	2·4	...	3·9	16·5	25·2	9	12	13·9	19·3	72
Sarun	Chupra	25,116	26,554	51,670	2	4	6	2·0	4·0	6·0	50	4	...	1	...	2	4	11	4·0	...	1·0	...	2·0	4·0	11·1	18·1	6	5	12·4	9·8	126
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	11	9	20	10·0	8·1	18·1	122	...	...	10	1	...	5	16	...	...	9·1	·9	...	4·5	14·5	22·6	7	9	12·3	16·8	73
Monghyr ..	Monghyr	28,154	29,366	57,520	11	15	26	9·9	13·6	23·5	73	1	...	9	1	2	4	17	·9	...	8·1	·9	1·8	3·6	15·4	25·3	7	10	12·9	17·7	72
Purneah ...	Purneah	6,463	6,553	15,016	2	1	3	6·9	3·5	10·4	200	...	...	3	1	...	...	4	...	...	10·4	3·5	...	...	13·9	10·4	1	3	6·1	23·8	25
Poori	Poori	13,247	11,537	24,784	3	...	3	6·3	...	6·3	No female birth.	...	...	5	3	...	8	16	...	...	10·5	6·3	...	16·8	33·6	35·7	12	4	47·1	18·0	261

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of Population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Ratio per 1,000 of Population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	11	2	..	...	...	24·2	10·1	...	...	3	...	1	1	...	1	1	2	2	2	236·4	...	22·3	20·7	...	6·6	7·5	23·5	42·4	70·2
Midnapore ..	Midnapore .	...	5	...	..	.	...	10 0	...	.	...	...	...	...	...	...	...	2	...	1	2	...	...	..	...	...	...	18·8	...	25·2	56·8
Hughli ...	Hughli and Chinsurah	...	15	1	...	..	.	30·9	8·4	...	...	3	2	...	...	...	3	3	3	...	2	194·3	46·9	...	...	...	25·1	27·3	37·4	...	50·2
Serampore ...	Serampore ..	1	23	2	...	.	163·1	47·4	110·9	..	...	2	4	2	1	...	6	3	1	1	6	146·5	115·2	41·4	25·4	...	57·9	31·4	15·4	27·2	224·3
	Utterpara	...	4	...	...	...	...	39·1	...	..	...	1	1	2	...	...	...	...	...	...	...	323·0	123·5	111·6	...	...	...	...	...	...	...
Howrah ..	Howrah	..	10	9	...	...	...	7·6	22·8	...	...	4	2	4	...	1	3	...	5	...	...	100·8	18·8	33·1	...	7·1	4·6	...	22·1	...	...
	Bali	...	3	1	..	...	...	11·6	39·7	...	...	1	1	...	...	...	...	1	...	1	...	143·6	52·1	...	...	...	...	18·6	...	49·6	...
Nuddea ...	Krishnagar ...	...	3	.	...	...	...	8·4	..	...	...	1	...	..	...	...	...	1	...	...	1	104·8	...	...	..	...	...	12·1	...	...	30·1
	Ranaghat	...	4	...	...	...	...	28·4	...	.	...	1	...	1	1	...	...	...	..	...	1	251·2	...	46·6	59·9	...	...	...	...	...	91·4
	Santipore	...	9	1	...	...	...	22·6	5·8	...	...	1	2	1	2	1	1	1	..	1	...	61 5	35·9	13·8	35·9	23·4	10·6	12·0	...	22·6	...
Jessore ...	Jessore	...	2	...	...	...	...	23·1	...	..	...	..	...	...	1	...	...	...	.	...	1	..	...	...	78·2	...	...	...	...	...	113·5
Rajshahye ...	Rampore Beauleah	...	3	3	...	...	...	15·7	15 9	...	...	1	...	2	...	...	1	1	...	1	...	126·1	..	50·0	...	..	12·5	14·4	...	41·9	...
Darjiling ...	Darjiling	4	7	1	...	...	1,300·0	79·2	85 0	...	...	...	4	1	...	...	3	1	2	1	...	...	323·5	88·9	...	...	78·0	36·3	150·3	213·1	...
Dacca	Dacca	...	18	24	..	...	...	23·2	31·7	...	...	7	4	1	1	2	10	5	5	1	6	191·5	28·2	5·2	6·5	14·2	33·9	22·3	31·0	11·0	56·0
	Naraingunj ...	...	2	2	...	...	...	16·4	16·9	...	...	...	1	1	...	...	...	1	...	...	1	...	45·6	39·4	...	...	...	24·3	...	...	79·8
Chittagong ...	Chittagong ..	...	1	4	...	...	...	9·0	13·6	...	...	...	...	...	...	...	..	1	1	1	2	...	...	...	...	...	...	15·6	23·0	47·9	136·7
Tipperah ...	Comillah	...	4	3	...	...	...	35·0	21·1	...	...	1	...	1	..	...	2	...	1	...	3	175·1	...	31·9	...	...	37·7	...	39·6	...	153·4
Patna	Patna City ...	..	29	11	...	...	...	12·7	14·0	...	...	9	6	...	5	2	2	7	2	2	5	105·6	21·4	...	18·1	9·3	3·6	15·7	5·5	7 4	18·8
Gya ...	Gya	...	43	22	...	...	...	37 3	71·2	...	...	17	10	...	2	1	2	8	8	7	10	433·9	81·8	...	15·5	9·9	7·1	32·7	42·6	55·4	101·0
Shahabad ...	Arrah	...	4	3	...	...	...	6·7	12·6	...	...	1	1	...	1	...	2	...	...	1	1	40·4	11·7	...	11·8	...	13·2	...	...	16·8	18·0
Mozufferpore ...	Mozufferpore ...	..	9	4	...	...	...	15·6	16·7	...	...	3	1	1	1	1	1	1	1	3	...	163·4	12·9	11·6	13·1	17·2	6·1	7 5	10 4	48·0	...
Durbhanga ...	Durbhanga ...	1	17	3	...	...	400·2	18 3	8·9	...	...	1	2	4	3	...	5	...	2	...	4	33·4	13·7	26·8	25·1	...	19·5	...	14·0	...	65·1
Saran	Chupra	...	8	3	...	...	...	10 5	13·1	...	...	2	2	1	...	2	1	...	1	...	2	73·7	20·1	8·7	...	30·0	5·6	...	8·6	...	30·6
Bhagulpore ...	Bhagulpore ...	...	13	3	...	...	...	17·0	9·1	...	...	6	2	...	...	...	2	1	1	...	4	261 3	19·2	...	...	...	9·5	5·6	8·3	...	57·7
Monghyr ...	Monghyr	...	14	3	...	...	...	16·3	12·4	...	...	4	3	1	...	3	...	2	1	...	3	140·1	25·1	7·4	...	41·3	...	11·7	8·2	...	43·5
Purneah ...	Purneah	.	1	3	...	...	...	5·7	27·6	...	...	2	...	...	...	...	...	2	...	...	...	367·5	...	...	...	...	...	36·5	...	...	...
Poori ...	Poori	..	16	...	...	...	..	33·9	...	...	...	7	...	...	...	...	...	2	1	2	4	1,201·3	...	...	...	...	...	25·7	15·6	46·6	115·2
	Total ...	6	278	108	...	...	44·8	19·1	19·1	...	...	78	48	24	19	13	45	44	37	25	59	159·8	26·9	11 3	10 3	8 4	11·1	13·1	15·4	16·8	46·7

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 18th August 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 16th August 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 16th August 1890.			Week ending Saturday, the 17th August 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	310	65,215	1,036	286	40,700	601
Jute	35	10,900	215	60	22,475	383
Firewood	120	55,675	857	123	61,025	940
Other articles	740	2,03,500	2,977	786	1.65,325	2,299
Total ...	1,205	3,35,290	5,085	1,255	2,89,525	4,223

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 3 weeks and 5 days ended 26th July 1890, *as compared with the same period of* 1889.

Staples.	1890.		1889.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
Animals, living — Horses, ponies, and mules	No. 22	368	No. 12	230	No. 10	138	No.	.....
Animals, living — Cattle	,, 78	674	,, 61	540	,, 17	134	,, ...	.....
Animals, living — Sheep and goats	,, 2,157	2,117	,, 3,696	3,092	,, ...	.....	,, 1,539	975
Animals, living — Other kinds	,, 1	14	,, 4	26	,, ...	.....	,, 3	12
Borax	840	562	780	515	60	47	.....	.....
Canes and rattans	.....	.....	.....	.....	.....	.....	.....	.....
Caoutchouc (Indian-rubber)	8	4	1	2	7	2	.....	.....
Chinese and Japanese ware	6	5	5	4	1	1	.....	.....
Coal and coke, up	6,16,859	1,45,020	6,35,279	2,23,360	.....	.....	18,420	78,340
Coal and coke, Ditto, down	21,01,030	2,66,509	21,94,010	2,90,549	.....	.....	92,980	24,040
Cotton, raw	14,016	12,807	12,288	10,417	1,728	2,390	.....	.....
Cotton, manufactured — Twist and yarn (European)	7,098	8,498	7,142	8,529	.....	.....	46	31
Cotton, manufactured — Ditto (Indian)	12,530	7,858	12,938	8,141	.....	.....	408	283
Cotton, manufactured — Piece-goods (European)	62,490	75,288	69,640	84,737	.....	.....	7,150	9,449
Cotton, manufactured — Ditto (Indian)	18,502	8,828	18,423	9,253	79	.....	.....	425
Drugs and Medicines — Asafœtida	76	49	93	55	.....	.....	17	6
Drugs and Medicines — Other sorts, not intoxicating	1,081	1,552	966	1,650	115	.....	.....	98
Drugs and Medicines — Intoxicating drugs (other than opium, *i.e.*, arsenic, bhang, ganja, and charas, &c.)	1,104	527	1,019	552	85	.....	.....	25
Dyeing Materials — Indigo	160	145	250	142	.....	3	96	.....
Dyeing Materials — Madder or manjit	.....	.....	.....	.....	.....	.....	.....	.....
Dyeing Materials — Safflower	108	68	156	106	.....	.....	48	38
Dyeing Materials — Turmeric	6,841	5,139	3,992	1,740	2,849	3,399	.....	.....
Dyeing Materials — Other kinds	2,333	1,764	2,675	2,365	.....	.....	342	601
Earthenware and porcelain	379	740	371	736	8	4	.....	.....
Fibrous Products — Jute, raw	4,046	631	9,265	926	.....	.....	5,219	295
Fibrous Products — Do., manufactured (gunny-bags and cloths)	44,826	21,489	51,213	26,117	.....	.....	6,387	4,628
Fibrous Products — Other fibres, raw	2,221	1,151	4,725	2,157	.....	.....	2,504	1,006
Fibrous Products — Ditto, manufactured	1,752	464	1,491	318	351	146	.....	.....
Fruits & Nuts — Cocoanuts	2,520	1,572	1,708	1,038	812	534	.....	.....
Fruits & Nuts — All other kinds	24,856	15,916	20,816	14,071	4,040	1,845	.....	.....
Grain & Pulses — Wheat	3,65,888	92,498	2,45,648	61,868	1,20,240	30,630	.....	.....
Grain & Pulses — Gram and pulses	2,13,020	61,105	2,27,380	62,145	.....	.....	14,360	1,040
Grain & Pulses — Rice, husked	3,20,430	55,684	3,53,200	76,814	.....	.....	32,770	21,130
Grain & Pulses — Do., unhusked	40,466	3,319	54,946	5,199	.....	.....	14,540	1,880
Grain & Pulses — Other rain and spring crops	72,717	18,611	90,877	23,461	.....	.....	18,160	4,850
Government stores	17,652	37,445	18,312	36,610	.....	835	660	.....
Gums and resins	4,851	2,900	4,770	2,861	55	44	.....	.....
Hides & Skins — Hides of cattle	20,218	10,795	19,641	10,699	577	96	.....	.....
Hides & Skins — Skins of sheep, goats, and small animals	10,750	4,551	14,594	5,697	.....	.....	3,844	1,146
Horns	1,336	760	1,156	726	180	34	.....	.....
Lac — Lac, dye	235	151	206	135	29	16	.....	.....
Lac — Do., shell	9,759	6,841	6,963	4,990	2,796	1,851	.....	.....
Lac — Do., stick and other kinds	20,769	7,976	13,043	4,072	7,726	3,904	.....	.....
Leather — Leather, unmanufactured	1,639	3,452	2,090	3,843	.....	.....	452	391
Leather — Ditto, manufactured	686	749	737	969	.....	.....	51	220
Liquors	11,047	11,088	12,051	11,188	.....	.....	1,004	100
Mats	274	117	320	177	.....	.....	46	60
Minerals	93,506	15,072	95,586	15,975	.....	.....	2,080	903
Metals and Manufactures of — Brass and copper	16,635	9,510	21,919	18,618	.....	.....	5,284	9,108
Metals and Manufactures of — Iron	72,995	41,845	67,888	43,454	5,107	.....	.....	1,609
Metals and Manufactures of — Other metals	3,873	3,655	5,348	5,208	.....	.....	1,475	1,553
Oils	77,153	31,430	59,871	30,146	17,282	1,284	.....	.....
Opium	564	778	452	851	112	.....	.....	73
Paints and colours	2,671	1,539	2,085	1,254	586	285	.....	.....
Provisions — Ghee	24,712	18,635	19,110	14,349	5,602	4,286	.....	.....
Provisions — Other kinds	5,292	4,140	7,098	4,765	.....	.....	1,806	625
Railway materials, Construction Account	2,85,510	3,490	3,70,940	4,540	.....	.....	85,430	1,050
Railway materials, Ditto ditto, Foreign	91,304	39,200	1,20,644	45,416	.....	.....	29,340	6,126
Salt	3,56,628	65,650	4,12,341	80,447	.....	.....	55,713	14,797
Saltpetre, &c. — Saltpetre	25,552	12,581	29,439	14,238	.....	.....	3,887	1,657
Saltpetre, &c. — Other saline substances	18,346	5,648	18,755	5,615	.....	33	409	.....
Seeds — Oil-seeds — Linseed	3,36,685	97,377	7,25,815	2,21,957	.....	.....	3,89,130	1,24,580
Seeds — Oil-seeds — Mustard and rape	75,265	19,805	3,48,555	74,635	.....	.....	2,73,320	54,830
Seeds — Oil-seeds — Til or ginjelly	2,400	698	1,150	48	1,250	650	.....	.....
Seeds — Oil-seeds — Other oilseeds	64,407	17,657	1,73,187	47,177	.....	.....	1,08,780	29,520
Seeds — Other seeds — Indigo seed	7,025	2,757	5,205	2,537	1,820	220	.....	.....
Seeds — Other seeds — Tea seed	.....	.....	.....	.....	.....	.....	.....	.....
Seeds — Other seeds — Other kinds	34,761	10,775	73,441	12,825	.....	.....	2,680	2,050
Silk — Silk, raw	1,144	745	646	429	498	316	.....	.....
Silk — Do., manufactured (European)	.....	.....	.....	.....	.....	.....	.....	.....
Silk — Do., ditto (Indian)	429	235	530	335	.....	.....	101	100
Spices	4,807	4,809	4,813	4,787	.....	22	6	.....
Stone and marble	2,69,145	25,995	1,78,225	15,019	90,920	10,976	.....	.....
Sugar — Sugar, refined	47,990	9,545	98,129	25,436	.....	.....	50,229	15,891
Sugar — Do., unrefined	34,478	6,546	27,540	4,136	6,938	2,410	.....	.....
Tea — Tea, Indian	1,698	2,141	1,970	2,937	.....	.....	272	796
Tea — Do., Foreign	.....	.....	.....	.....	.....	.....	.....	.....
Tobacco	40,915	16,435	66,726	26,470	.....	.....	25,811	10,035
Wood — Timber	27,178	4,741	22,978	2,744	4,200	1,997	.....	.....
Wood — Firewood	16,851	775	18,557	913	.....	.....	1,706	138
Wool — Wool, raw	857	514	1,142	951	.....	.....	285	437
Wool — Do., manufactured (European)	66	153	221	280	.....	.....	155	127
Wool — Wool, manufactured (Indian)	929	757	922	752	7	5	.....	.....
Wool — Shawls	.....	.....	.....	.....	.....	.....	.....	.....
All other articles of merchandise	1,91,512	94,631	2,22,488	1,12,483	.....	.....	28,976	17,852
Bones	36,127	10,283	12,296	2,944	23,831	7,339	.....	.....
Potatoes	29,480	15,718	25,667	13,585	3,813	2,133	.....	.....
Total	60,52,626	14,90,661	69,40,871	18,50,538	3,03,704	78,009	12,00,949	4,43,886

General remarks on the fluctuation of principal staples carried over the East Indian Railway during month ended 26th July 1890.

INCREASES.

Cotton.—This is a continuation of the increase previously reported, and was chiefly in despatches from the Bombay, Baroda and Central India Railway *vid* Agra to Howrah for export.

Turmeric.—Chiefly in despatches from Howrah to Cawnpore and Delhi.

Wheat.—The improvement in this commodity was in despatches from stations on the "R" and "B" districts to Howrah for export to London.

Lac.—The increase appears chiefly in despatches of shell-lac from Mirzapur to Howrah for export to Europe; also in lac refuse to the Port Commissioners' railway and to stations on the Tirhoot State Railway.

Ghee.—Chiefly in long distance despatches from stations on the "D" district to Howrah for local consumption.

Stone.—The increase recorded under this head was principally in despatches of stone ballast from Pakur to Chitpore, Sealdah, Howrah and other stations.

Bones.—Principally in despatches from Digha Ghât *viâ* Digha Ghât, *viâ* Mogulserai and Agra to Bally and Chitpore.

Potatoes.—Chiefly in despatches from Patna City to Howrah and Seoraphuli for local consumption.

DECREASES.

Coal and coke, up and down.—The falling off was chiefly in upwards coal for the Bombay, Baroda and Central India, the North-Western, and the Bengal and North-Western Railways owing to decreased demands from those lines. The decrease in the downwards traffic is attributable to less exports to coast ports.

Piece-goods, European.—This falling off appears chiefly in despatches from Howrah and from Bombay *viâ* Jubbulpore, and was due to the fluctuation in exchange unsettling the market.

Gunny.—Following the falling off in the export trade.

Rice (husked and unhusked).—This decrease, as reported in previous months, was due entirely to the falling off of despatches of upward consignments sent from stations on the "A" and "R" districts last year.

Other rain and spring crops.—As stated in previous months, the falling off recorded under this head was due to the unusually heavy traffic in cheap food-grains last year from stations on the "B" district to stations on the Tirhoot State Railway owing to scarcity of food-grains in Tirhoot.

Brass and copper.—Chiefly in despatches from Howrah owing to demand being very dull during the period under review.

Railway material, Foreign.—The falling off was chiefly in despatches from Howrah to Katni, Umaria, and Umballa.

Salt.—The decrease in this staple appears chiefly in despatches of imported salt from Howrah to stations on the Tirhoot State and the Bengal and North-Western Railways owing to heavy rains up-country.

Seeds.—Chiefly in linseed to Howrah for export; also in mustard-seed to Howrah and other stations for local consumption.

Sugar (refined).—The falling off was principally in despatches from the Shahabad district to Howrah, Cawnpore, Agra and to stations on the Jubbulpore line, the Great Indian Peninsula and the Bombay, Baroda and Central India Railways.

Tobacco.—Chiefly in despatches from Barh and stations on the Tirhoot State Railway to Cawnpore, Jubbulpore and stations on the Great Indian Peninsula Railway.

N. ST. LEGER CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, *the* 13*th August* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, *on* 1,525½ *miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	205,914	2,18,701 0 0	17,11,721 30	3,71,288 4 0	18,964 9 9	6,08,953 13 9	64,840½	74,344	139,18
Or per mile of railway	.....	143 5 10	.....	243 6 2	12 6 11	399 2 11	.....	.....	.....
For previous 5 weeks of half-year	1,122,086	10,93,249 3 0	86,03,216 0	18,84,901 10 0	88,456 15 6	30,66,607 12 6	307,851½	368,665½	676,51
Total for 6 weeks ...	1,328,000	13,11,950 3 0	1,03,14,937 30	22,56,189 14 0	1,07,421 9 3	36,75,561 10 3	372,692	443,009½	815,70
COMPARISON.									
Total for corresponding week of previous year	234,961	2,25,576 11 0	21,82,322 10	4,37,719 13 0	17,503 8 4	6,80,800 0 4	66,530	77,709	144,24
Per mile of railway corresponding week of previous year ...	.....	147 13 11	.....	286 15 0	11 7 7	446 4 6	.....	.....	.....
Total to corresponding date of previous year	1,469,259½	14,22,081 13 7	1,32,97,710 30	28,01,747 3 0	1,04,157 8 10	43,27,986 9 5	389,696	516,990	906,68

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23*rd July* 1883.

RECEIPTS FOR WEEK ENDING 10TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	6,80,800	446	1,525½	6,08,954	399	1,525½	1,63,54,737	584	1,525½	1,47,94,492	510	.....	15,60,245

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
ffic for the week ...	8,788	4,443 15 0	33,200 30	1,056 0 0	40 13 0	6,440 12 0	942	654	1,596
le of railway	154	77 11 1	580 20	34 3 1	0 11 5	112 9 7	.....	.....	.....
ious 5 weeks of half-	40,130	24,354 7 0	1,73,398 30	10,783 2 0	192 12 0	35,330 5 0	4,729	2,935	7,664
Total for 6 weeks ...	57,918	28,798 6 0	2,06,599 20	12,739 2 0	233 9 0	41,771 1 0	5,671	3,589	9,260
Comparison.									
r corresponding week ious year	11,037	5,445 12 2	69,446 30	2,409 10 0	42 5 6	7,897 11 8	1,075	808	1,883
ot railway correspond- k of previous year ...	103	95 3 4	1,214 10	42 2 0	0 11 10	138 1 2	.....	.....	.....
corresponding date of is year	69,713	36,203 14 9	3,22,009 20	15,762 0 0	273 5 9	52,239 4 6	5,781	4,247	10,028

pproximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

TS FOR WEEK ENDING R AUGUST 1889.		RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
7,898	138	57½	6,441	113	57½	1,06,236	153	57½	*1,68,514	155	2,278	.....

* Deducted Rs. 871 on account of difference between the approximate and audited figures to 30th June 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, *on* 22¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
affic for the week ...	17,277	4,314 13 0	4,269 10	143 12 0	6 5 0	4,464 14 0	924	44	968
nile of railway	.....	193 14 9	.....	0 7 4	0 4 7	200 10 8	.....	.....	.....
evious 5 weeks of half-	89,112	21,839 15 0	21,164 20	741 15 0	36 10 0	22,618 8 0	4,300	254	4,554
Total for 6 weeks ...	106,389	26,154 12 0	25,433 30	885 11 0	42 15 0	27,083 6 0	5,224	298	5,522
Comparison.									
or corresponding week of ous year	18,152	4,621 11 8	4,170 30	154 1 0	8 13 0	4,784 9 8	935	33	968
e of railway correspond- veek of previous year ...	.....	207 11 6	.....	6 14 9	0 6 4	215 0 7	.....	.....	.....
to corresponding date of ous year	113,618½	27,164 11 11	29,113 0	976 5 0	22 15 0	28,163 15 11	5,552	212	5,764

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

PTS FOR WEEK ENDING 10TH AUGUST 1889.		RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
4,785	215	22½	4,465	201	22½	1,10,802	202	22½	*1,11,931	265	1,129	.....

* Deducted Rs. 480 on account of difference between the approximate and audited figures to 30th June 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 2nd August 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES R		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	T
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week... ...	116,950	54,120 0 0	5,34,590 0	1,14,190 0 0	20,470 0 0	1,88,780 0 0	22,921	33,253	
Or per mile of railway	152	71 0 0	697 0	149 0 0	*13 0 0	233 0 0	.....	.....	
For previous 4 weeks of half-year	569,950	2,34,590 0 0	17,42,790 0	3,72,610 0 0	53,040 0 0	6,60,240 0 0	84,725	115,442	2
Total for 5 weeks ...	686,900	2,88,710 0 0	23,77,380 0	4,86,800 0 0	73,510 0 0	8,49,020 0 0	107,646	148,695	2
COMPARISON.									
Total for corresponding week of previous year	†134,250	50,889 0 0	5,17,596 0	1,18,406 0 0	10,236 0 0	1,79,531 0 0	23,054	27,703	
Per mile of railway corresponding period of previous year ...	180	68 0 0	693 0	158 0 0	*1 0 0	227 0 0	.....	.....	
Total to corresponding date of previous year	693,017	2,83,738 0 0	22,19,688 0	4,36,559 0 0	67,766 0 0	7,88,063 0 0	112,923	121,350	2

* Excluding steamer earnings
† Includes monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 3RD AUGUST 1889.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 3RD AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	1,79,531	240	767	1,88,780	246	693	20,23,505	234	760	*31,67,335	231	2,44,830	.....

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		(Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RU		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	To
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week... ...	24,690	8,750 0 0	34,280 0	2,300 0 0	250 0 0	11,300 0 0	3,608	2,060	
Or per mile of railway	198	70 0 0	274 0	18 0 0	2 0 0	90 0 0	.....	.....	
For previous 4 weeks of half-year	107,392	36,840 0 0	1,37,570 0	8,000 0 0	460 0 0	45,300 0 0	13,426	7,646	2
Total for 5 weeks ...	132,082	45,590 0 0	1,71,850 0	10,300 0 0	710 0 0	56,600 0 0	17,034	9,706	2
COMPARISON.									
Total for corresponding week of previous year	27,561	8,495 0 0	43,668 0	2,932 0 0	96 0 0	11,523 0 0	3,687	1,985	
Per mile of railway corresponding period of previous year ...	220	68 0 0	349 0	23 0 0	1 0 0	92 0 0	.....	.....	
Total to corresponding date of previous year	138,731	46,034 0 0	1,81,356 0	11,490 0 0	322 0 0	57,846 0 0	17,054	10,250	2

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 3RD AUGUST 1889.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 3RD AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890.	Total decrease 1890
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
125	11,523	92	125	11,300	90	125	2,37,893	106	125	*2,22,610	99	.....	15.08

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
tal traffic for the week	12,530	4,020 0 0	15,220 0	1,110 0 0	120 0 0	5,250 0 0	2,414	690	3,104
per mile of railway	146	47 0 0	177 0	13 0 0	1 0 0	61 0 0	.....	.....	.....
r previous 4 weeks of half-year	50,900	17,090 0 0	41,580 0	4,230 0 0	490 0 0	21,810 0 0	9,000	2,562	11,562
Total for 5 weeks ...	63,430	21,110 0 0	56,800 0	5,340 0 0	610 0 0	27,060 0 0	11,414	3,252	14,666
Comparison.									
tal for corresponding week of previous year	15,092	3,960 0 0	9,322 0	008 0 0	74 0 0	4,612 0 0	2,478	618	3,096
r mile of railway corresponding period of previous year	175	46 0 0	108 0	7 0 0	1 0 0	54 0 0	.....	.....	.....
tal to corresponding date of previous year	68,413	20,131 0 0	79,446 0	3,703 0 0	1,282 0 0	25,116 0 0	12,047	3,784	15,831

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 3rd August 1889.			Receipts for week ending 2nd August 1890.			Total receipts from 1st April 1889 to 3rd August 1889.			Total receipts from 1st April 1890 to 2nd August 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	4,642	54	86	5,250	61	86	99,395	64	86	*1,08,802	70	9,407	.....

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
al traffic for the week ...	4,300	1,560 0 0	7,940 0	460 0 0	20 0 0	2,040 0 0	586	340	926
per mile of railway	158	57 0 0	291 0	17 0 0	1 0 0	75 0 0	.....	.....	.....
r previous 4 weeks of half-ear	12,300	4,390 0 0	52,640 0	2,830 0 0	40 0 0	7,260 0 0	2,020	1,619	3,639
Total for 5 weeks ...	16,600	5,950 0 0	60,580 0	3,290 0 0	60 0 0	9,300 0 0	2,606	1,959	4,565
Comparison.									
al for corresponding week f previous year	2,646	998 0 0	6,660 0	444 0 0	14 0 0	1,456 0 0	586	340	926
mile of railway correspond-ng period of previous year ...	97	0 0	244 0	16 0 0	1 0 0	54 0 0	.....	.....	.....
al to corresponding date of revious year	13,828	5,318 0 0	38,640 0	2,601 0 0	156 0 0	8,075 0 0	2,780	1,797	4,577

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 3rd August 1889.			Receipts for week ending 2nd August 1890.			Total receipts from 1st April 1889 to 3rd August 1889.			Total receipts from 1st April 1890 to 2nd August 1890.			*Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,456	54	27¼	2,040	75	27¼	33,654	69	27¼	*34,933	71	1,279	.....

* Audited up to week ending 31st May 1890.

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAYS.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the week ending 2nd August 1890, on 315 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	MDS.	Rs.	Rs.	Rs.			
Total traffic for the period on 315 miles open	36,171	11,227	96,018	8,916	1,861	22,004	5,786	5,162	10,948
Or per mile of railway	115	36	305	28	3	67*	.....	.....	.....
For previous 3 weeks of half-year	1,37,391	45,791	4,97,030	50,219	7,570	1,03,580	20,619	23,208	43,827
Total for 4 weeks ...	1,73,562	57,018	5,93,048	59,135	9,431	1,25,584	26,405	28,370	54,775
COMPARISON.									
Total for corresponding week of previous year on 273 miles open	33,876	10,605	1,96,845	15,194	3,024	28,823	5,010	6,125	11,135
Per mile of railway corresponding week of previous year ...	124	39	721	55	1	95*	.....	.....	.....
Total to corresponding date of previous year	184,890	63,475	9,61,556	78,563	16,421	1,58,459	23,982	28,008	51,990

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

RECEIPTS FOR WEEK ENDING 3RD AUGUST 1889.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 3RD AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890-91	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	28,823	106	315	22,004	70	273	6,76,780	148	284·18	7,22,477	150	45,697	.....

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No. 35 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, AUGUST 27, 1890.

OFFICIAL PAPERS.

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EMIGRATION FROM THE PORT OF CALCUTTA DURING THE YEAR 1889.

GENERAL DEPARTMENT—COLONIAL EMIGRATION.

Calcutta, the 15th August, 1890.

RESOLUTION.

READ—

The Report on Emigration from Calcutta during the year 1889.

Read again—

The Report on Emigration from Calcutta during the year 1888.

DURING the past year colonial emigration from Bengal has been marked by an unusual activity, arising from the fact that the colonies have now been obliged to make up for the small importation of labour caused by the uncertainty of the sugarcane industry in the preceding years. The increased demand is not, however, regarded by the Protector as indicative of any probable revival of the industry. The requisitions in the year 1889 amounted to 9,945 as against 7,180 in 1888, the increase of 2,765 being attributed generally to the cause above mentioned, and more particularly to the re-opening of emigration to the colonies of Natal and Mauritius, which did not indent for coolies during the previous year. The larger requisitions gave rise to an increase in the number of recruiters from 511 to 717, and in the number of registrations from 10,325 to 16,813, the excess being, roughly speaking, divided proportionately among the more important of the recruiting districts. The number of adults actually despatched was 10,041, against 6,544 in 1888 and 4,563 in 1887. The two leading districts of Shahabad and Benares maintained their places on the list, the former having supplied 2,630, and the latter 2,085 registrations. The district of the 24-Pergunnahs, which shows on paper the largest number of registrations, cannot be compared with the others, owing to the fact that a large proportion of the

recruiting in that district is carried on among coolies brought to Calcutta by unlicensed emigration agents under pretence that they are destined for Assam. The Lieutenant-Governor agrees with the Protector that this practice is objectionable, inasmuch as it is a breach in spirit of the Colonial Emigration Act, which provides for all emigrants being registered for the colonies in the district of recruitment. It does not appear, however, that under the law, as it at present stands, there is any means of remedying the evil. The question is under consideration in connexion with the amendment of the Inland Emigration Act (Act I of 1882), which is now before this Government and the Government of India.

2. The standard attained in the management of the depôts in Calcutta has, with the single exception of the Mauritius depôt at Bhowaniporo, been all that could be desired, both with a view to the sanitary arrangements and to the comfort of the emigrants while awaiting embarkation. The slight increase in the rates of depôt sickness and mortality was not more than would naturally follow on a much increased depôt population. The Mauritius depôt was only re-opened during the course of the year, and is described by the Medical Inspector as wanting in space for exercise, and so much shut in on all sides that free ventilation and perflation of air are deficient, although the regulations as to cubical and superficial area were literally complied with, and the Lieutenant-Governor is pleased to learn that the depôt will very shortly be abandoned and a more convenient site selected on the river bank at Garden Reach. The frequent occurrence of sickness, especially measles, in the Bhowaniporo depôt, had much to account for both in increasing the general average mortality and in causing delay in the departure of emigrant ships.

3. During the year under report 21 vessels left Calcutta for various colonies, of which five were steamers bound either to Natal or Mauritius. In every case the women carried were in excess of the prescribed number, and it is noticed with satisfaction that in the case of Surinam more than half of the women embarked were married. The mortality on the voyages, though showing a slight increase in the average, calls for no particular notice. Careful enquiry is made in each case in which the result of the voyage seems to indicate unusual sickness.

4. Five thousand one hundred and two emigrants were reshipped from the different colonies as against 3,908 in the preceding year. Of these 109, or a percentage of 2·14, died on the voyage—a percentage which the Lieutenant-Governor agrees with the Protector in considering moderate, looking to the age and decrepit condition of many of the returning emigrants. The Protector has been requested in future reports to notice particularly the question of the return of lepers from the colonies, and has been at the same time instructed to use great care in preventing the despatch as emigrants from Calcutta of any person open to the slightest suspicion of incipient leprosy. From correspondence subsequent to the report now under review it appears that no less than 38 lepers were returned from the colonies during the year 1889, of whom 18 came from Demerara and 12 from Mauritius. The Lieutenant-Governor is not inclined to accept the position that colonies should be allowed to return emigrants who have contracted the disease during the period of their expatriation.

5. The administration of the estates of deceased emigrants, which now forms an important part of the work of the Protector's office, has been carried on with diligence and patience, with the result that enquiries for heirs were completed in 257 cases, or 67·1 per cent. of the number of estates under administration during the year. The Lieutenant-Governor agrees with the Protector that it is most important that these enquiries should be instituted as soon as possible after the death of the emigrants, and that the Protector should be put in possession of the information on which to conduct the investigation without any unreasonable delay. It is also very desirable that the estates of those whose heirs have been traced should be made over to the Protector with the greatest possible promptitude.

6. The thanks of the Lieutenant-Governor are due to Surgeon-Major D. W. D. Comins for the manner in which he has carried out his duties as Protector of Emigrants; to Surgeon-Major J. F. P. McConnell, who held the position of Medical Inspector, and to Dr. R. C. Chandra, who officiated for Dr. Comins from July to October.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE REPORT ON THE LEGAL AFFAIRS OF THE GOVERNMENT OF BENGAL FOR THE YEAR 1889-90.

RESOLUTION.

JUDICIAL.

Dated Calcutta, 25th August 1890.

READ—

The Report on the Legal Affairs of the Government of Bengal for the year 1889-90.

Read also—

The Reports for the two preceding years, and the orders of Government thereon.

At the close of the year 1888-89 six appeal cases were pending before the Privy Council. Of these only two were decided—one against the Government in which the Secretary of State was the appellant, and one in favour of the Court of Wards as the respondent. One case was dismissed, the subject-matter of the dispute having been amicably settled between the parties themselves in this country. Only one appeal was instituted before the Privy Council during 1889-90, but as it was admitted late in the year, the papers of the case are not yet ready. The Secretary of State is respondent in this case.

2. The following statement shows the result of civil litigation in all the Courts of Bengal to which Government was a party during the year 1889-90 as compared with the two preceding years:—

	Original cases.			Appeals.						Total.		
				Before High Court.			Before Lower Courts.					
	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.
Decided in favour of Government	344	289	234	118	23	50	62	26	44	524	338	348
Ditto against ditto	56	136	51	3	.....	1	13	19	6	72	155	58
Compromised, remanded, or withdrawn	83	55	39	1	.....	5	5	2	4	89	57	48
Percentage in favour of Government (omitting fractions) ...	86	69	83	98	100	98	83	58	88	88	69	86

The Legal Remembrancer explains that of the 58 cases decided against Government, 26 were land acquisition cases, in which the Collector's offer was slightly varied by the Judge on reference. Leaving these cases out of calculation, the percentage in favour of Government would be 87 in 1887-88, 66 in 1888-89, and 86 in 1889-90. The results of litigation in the High Court and the lower Appellate Courts do not seem to call for notice. In the Courts of first instance 51 cases were decided against Government, and the percentage of cases decided in favour of Government is 83, against 86 in 1887-88 and 69 in 1888-89. Omitting land acquisition cases, the percentages would be 75 in 1887-88, 65 in 1888-89, and 81 in 1889-90.

3. The Legal Remembrancer reports that the only case of any importance decided against Government was that of Messrs. Watson and Company, in which they sued to recover possession of 284 bighas of land. They asserted that their *zemindari* and *putni* mehals, situated on the left bank of the river Howlia, were diluviated in 1272 B.S. and re-appeared on the original site in 1281 B.S., when it was included in the contiguous mehal Chur Kadipur and settled with Rani Brojosundari Debi. Limitation was pleaded on the part of Government, and it was also urged that, as the plaintiffs did not raise any objection when the land was settled, they must, in the event of their establishing their title to the land, wait for possession until the expiration of the term of settlement. The Court, however, overruled the plea of limitation and, having found on local enquiry that the greater portion of the land in dispute was a re-formation of the old site of the plaintiffs' mouzahs Dharmadaha and Tekulia, gave a modified decree to the plaintiffs. It was not considered necessary to prefer an appeal against this decision.

4. The following figures show the result of the litigation in which the Court of Wards was concerned for the year under report as compared with the two preceding years:—

	Original cases.			Appeals—					
				Before High Court.			Before Lower Courts.		
	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.
In favour of Court of Wards ...	662	745	514	10	11	14	35	62	56
Against Court of Wards	76	82	49	...	4	...	109	24	18
Compromised, remanded, or withdrawn	60	33	42	5	...	2	3	10	10
Percentage in favour of Court of Wards (omitting fractions)	90	90	92	100	74	100	25	7	85

It is explained that the decrease in the number of cases is due to a falling off in the number of original suits on behalf of the Burdwan Raj in the districts of Burdwan, Birbhum, and Bankura, and of two other estates, one in Tipperah and the other in Hazaribagh.

In all the cases in the High Court the Court of Wards was respondent. In six of those in which the Court of Wards preferred appeals unsuccessfully in the lower Appellate Courts, and in 41 out of 49 of the cases decided against the Court of Wards in original suits, action had been taken without previous communication with the Legal Remembrancer. It is not stated how many of the successful cases had been similarly undertaken by the local authorities on their own responsibility.

5. The figures below show the amount of Government decrees recovered during 1889 90 as compared with the two preceding years:—

	1887-88.	1888-89.	1889-90.
	Rs.	Rs	Rs.
Amount under realization ...	48,884	67,540	55,247
Realized during the year	11,389	30,281	11,659
Percentage of recovery	23½	44⅘	21⅕

No explanation has been given of the great falling off in the percentage of recovery, but details are given by the Legal Remembrancer to show that measures for the recovery of outstanding amounts are being taken in all districts, and it is further said that a large portion of the balance will have to be written off, all attempts to realize having proved unsuccessful. Only Rs. 760 were remitted during the year.

6. The following table shows the amount of wards' decrees recovered during the year as compared with the two previous years:—

	1887-88.	1888-89.	1889-90.
	Rs.	Rs.	Rs.
Amount under realization ...	13,20,600	13,94,090	11,74,880
Realized during the year ...	2,59,312	2,68,027	2,15,720
Percentage of recovery ...	19⅔	19¼	18⅓

7. The largest outstanding balances are noted in the margin. In many instances it is reported that considerable sums are irrecoverable, and if this be the case, the amounts should be reported for remission at an early date. Recent collections on the Burdwan Raj Estate are said to be encouraging, and special arrangements have been made by the Board of Revenue for the realization of the balance due on the estate of the three younger Dighapatia wards. No information is forthcoming at present as to the very large balance reported from the Tikari Estate, and the Lieutenant-Governor would be glad to have a special report on the subject. His Honor would be glad also to hear what action has been taken on the special reports called for by the Legal Remembrancer on this subject in 1888-89, as the percentage of collections generally is far from satisfactory.

		Rs.
Burdwan Raj	Estate ...	2,69,785
Khettrohat	„ ...	18,234
Dighapatia	„ (eldest ward).	53,488
Ditto	„ (three younger wards) ...	97,233
Dhankoora	„ ...	55,201
Dukhin Shabazpore	„ ...	50,867
Nurhan	„ ...	41,716
Deokumar's	„ ...	42,334
Tikari	„ ...	1,78,585
Srinuggur	„ ...	63,778

8. The Lieutenant-Governor's acknowledgments are due to Mr. Allen for his management of the department under his charge.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 23rd August, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	BURDWAN DIVN.		
1	Burdwan Aug. 23, '90	0·04	Weather—cloudy and hot. Transplantation nearly over. Prospects good. Prices of common rice :—
	Culna ...	0·48	
	Cutwa ...	0·72	
	Ranigunge ...	1·38	
			Srs.
			Burdwan 15½
			Culna 14
			Cutwa 14 5/16
			Ranigunge 16
			} per rupee.
2	Bankoora ,, 23, '90	1·35	Weather—cloudy with occasional light showers and sunshine. Rain wanted in some places. Prospects of crops good. Common rice selling at 19 seers per rupee at Sudder and 18½ seers at Bissenpore.
3	Birbhum ,, 23, '90	1·90	Weather—seasonable. The break in the rains has been good for the crops, which
	Rampore Haut ...	2·86	are most excellent. Prices of common rice continue to be from 16 to 18 seers per rupee.
4	Midnapur ,, 23, '90	0·50	Weather—now cloudy. More rain required generally throughout district. Prospects fair. Prices of common rice :—
			Srs. Ch.
			Sudder 16 0
			Contai 16 0
			Tumlook 14 3
			Ghatal 15 3
			} per rupee.
5	Hooghly ,, 23, '90	1·01	Weather—cool and seasonable. Reports as to state and prospects of crops are
	Serampore ...	0·50	generally very favourable. Prices of common rice :—
	Jehanabad ...	0·06	
			Srs.
			Sudder 13
			Serampore 16
			Jehanabad 15
			} per rupee.
	Howrah ,, 23, '90	1·31	Weather - seasonable. Transplanting of *amun* not yet finished. Crops generally
	Uluberia ...	0·25	doing well. Price of common rice 13 to 14 seers per rupee.
	Central Districts.		
	PRESIDENCY DIVN.		
6	24-Perghs. Aug. 23, '90	1·51	Weather—hot and cloudy with occasional light showers. *Aus* and jute are being cut. Transplantation of *amun* still continues. More rain wanted in places. Prices stationary.
7	Nuddea ,, 23, '90	0·62	Weather—seasonable. Harvesting of *aus* paddy going on. Paddy on low lands mostly destroyed by floods.
	Kushtea ...	1·4	
	Meherpore ...	0 94	
	Chuadanga ...	1·54	
	Ranaghat ...	1·44	
	Khoolna ,, 23, '90	1·33	Weather—rainy. Prospects of crops continue good. Transplantation of
	Bagirhat ...	2 79	*amun* going on. Rivers have risen higher than usual.
	Satkhira ...	0·33	
	Jessore ,, 23, '90	0·64	Weather—hot with occasional light showers. *Aus* harvesting going on. Rivers
	Jhenidah ...	1·25	rising up; and crops on low lands are being submerged.
	Magura ...	1·04	
	Narail ...	1·38	
	Bongong ...	1·05	
	Moorshedabad ,, 23, '90	4·22	Weather—hot with occasional heavy showers. River imperceptibly falling down; the gauge stood this noon (23rd) 30′ 8″. Four annas outturn of *bhadoi* crop reported from the Jungipore subdivision. General outturn of this crop expected to be much less than usual. Prospects of standing crops on the whole good. *Amun* thriving well.
	RAJSHAHYE DIVN.		
11	Dinagepur ,, 23, '90	5·78	Weather—seasonable. Harvesting of jute and *bhadoi* still going on. Prospects
	Thakurgaon ...	5·0	of *haimanti* paddy very favourable. Transplantation of *haimanti* not yet finished. Price of rice stationary.
12	Rajshahye ,, 23, '90	2·28	Weather—rainy and seasonable. State and prospects of crops good in Nattore
	Nattore ...	2·74	and Nowgong ;—but the inundation is seriously affecting the standing crops
	Nowgong ...	1·37	in nearly all thanas of the Sudder subdivision; it is too early to estimate the damage that may have been caused.
13	Rungpur ,, 23, '90	7·04	Weather—cloudy with occasional showers. The rain has been beneficial to
	Nilphamari ...	9·91	*amun* which is being transplanted. Sugarcane promising well.
	Kurigram ...	5·17	
	Gaibanda ...	0·89	
14	Bogra ,, 23, '90	3·59	Weather—rainy and cloudy with south-easterly wind. Condition of sugarcane,
	Sherpur ...	3·93	*aus*, and *amun* good. *Aus* and jute are being cut. Common rice is being
	Nowkhilla ...	2·87	sold at 18½ seers per rupee.
15	Pubna ,, 23, '90	2·56	Weather—cool and cloudy. The continual rise of the rivers has caused partial damage to the jute, sugarcane, *aus*, and *amun* crops. Prices stationary.
16	Darjeeling ,, 23, '90	9·10	Weather—very rainy again. Winter rice is being transplanted in the Terai.
17	Julpigoree ,, 23, '90	17·22	Weather—rainy and cloudy. Harvesting of *aus* paddy going on. Jute is being cut in places. Transplantation of *haimanti* paddy continues. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded.*			
	Eastern Districts.		
DACCA DIVN. 18	Dacca Aug. 23, '90	2·19	Weather—cloudy with gleams of sunshine at intervals. Jute and *aus* paddy being harvested. *Amun* paddy thriving. Rivers rising again slowly. Fodder is not available in abundance. Common rice 13 to 15 seers per rupee.
19	Furreedpur ,, 23, '90	5·26	Weather—seasonable. In the Goalundo subdivision, where the water has not risen very high, *aus* rice is nearly all gathered with a good outturn; and the state of *amun* continues fair. Sugarcane, however, has been partially damaged by caterpillars. In the Sudder and Madaripore subdivisions the water is again rising. About eight annas of *aus* paddy have been damaged, but the prospect of *amun* paddy continues fair. Fodder is scarce, and cattle are suffering in consequence. Common rice is selling at 13 seers a rupee at its cheapest.
20	Backergunge ,, 23, '90	2·31	Weather—seasonable. Rainfall in the district has been very divergent, in Perozepur only ·97 of an inch, and in Bhola and Patuakhali 4·28 and 5·49 inches respectively. State of standing crops generally good, but some damage has been done both to the *aus* crop and the *amun* seedlings by rise of water. Common rice selling at about 13 seers per rupee.
21	Mymensingh ,, 23, '90	4·00	Weather—rainy and cloudy with occasional sunshine. *Aus* and jute are still being harvested. Transplantation of *amun* is nearly completed. Common rice selling at 13½ seers per rupee.
CHITTAGONG DIVN. 22	Chittagong ,, 23, '90	2·18	Weather—seasonable. Transplanting of *amun* and reaping of *aus* paddy commencing. *Aus* damaged on low lands by recent heavy rain. Rice selling at 16 seers per rupee.
23	Noakholly ,, 23, '90	5·88	Weather—rainy. Sunshine is scarcely seen. Harvesting of *aus* going on. *Amun* is being transplanted. Price of *amun* rice 13 seers and of *aus* rice 15 and 16 seers per rupee at Feny subdivision.
24	Tipperah ,, 23, '90	4·67	Weather—seasonable; frequent showers; cool and cloudy. Three-fourths of *aus* crop reaped. *Amun* thriving. Half of the jute crop cut in the Sudder subdivision. Prospects of standing crops continue good. Prices stationary.
25	Chittagong Hill Tracts. ,, 21, '90	0·79	Weather—cloudy with occasional sunshine and rain throughout the week. Harvesting of early *jum* paddy continues. Cotton progressing. Transplanting in low lands continues. Common rice being sold at 12 seers 15 chittacks per rupee.
BEHAR.	Hill Tipperah ,, 22, '90	1·64	Weather—seasonable. Transplanting of *amun* still going on. Prospects of jute and sugarcane not favourable. *Jum* crops doing well.
PATNA DIVN. 26	Patna ,, 23, '90	4·54	Weather—cloudy and showery. Transplantation of paddy going on vigorously. Sugarcane doing well. Prospects of *bhadoi* crops not good, much injury having been done by excessive rain and floods. Prices of food-grains almost stationary.
	Behar ...	1·21	
	Dinapore ...	0·67	
	Barh ...	1·70	
27	Gya ,, 23, '90	7·01	Weather—rainy and cloudy. Paddy transplantation almost finished. *Marua* being harvested in places. Sugarcane doing well. Prices of food-grains almost stationary.
28	Shahabad ,, 23, '90	2·16	Weather—hot and some wet days. *Bhadoi* almost all gone in Sudder and Buxar; some still left in Sasseram and Bhabuah. Paddy prospects good. Prices stationary; rice slightly risen in Arrah.
	Buxar ...	2·16	
	Bhabuah ...	0·44	
29	Durbhunga ,, 23, '90	2·39	Weather—cloudy with occasional rain. Prospects of *bhadoi* crops not injured by floods continue favourable. *Aghani* rice is still being replanted in places where it has suffered from flood. Indigo manufacture not yet over. Prices remain almost stationary.
	Madhubani ...	4·56	
	Somastipur ...	0·46	
30	Muzufferpur ,, 23, '90	2·28	A good deal of rain during the week, and it was raining at the time of report. Paddy being retransplanted on some of the lands previously inundated. Condition of *makai* and rice not injured by floods satisfactory.
	Hajipur ...	2·12	
	Sitamarhi ...	4·48	
31	Sarun ,, 23, '90	4·49	Monsoon weather. *Bhadoi* crop is almost a total failure on account of the flood. Rice is a complete failure over one-fourth of the district, but elsewhere it is about a 12-anna crop. Indigo prospects poor.
32	Chumparun ,, 23, '90	1·64	Good showers of rain last night (22nd); clouds still hanging in the sky, threatening more rain. Prospects of *makai* very poor from the effects of flood and excessive rainfall of the past weeks. Slight damage to paddy also reported from some parts, but the crop generally is doing well and is in good condition.
	Bettiah ...	4·66	
BHAGULPORE DIVN. 33	Monghyr ,, 23, '90	3·85	Weather—hot and sultry with occasional rainfall. Transplantation of winter rice nearly finished. Harvesting of *bhadoi* crops still going on in places in the Begusarai subdivision.
	Begusarai ...	2·79	
	Jamui ...	3·43	
34	Bhagulpore ,, 23, '90	5·2	Weather—cloudy with a good deal of rain. *Marua, kheri,* and *janera* are being reaped, but a good deal of the crops on low lands destroyed by floods. Prospects of rice crop good.
	Banka ..	2·46	
	Mudhepura ...	3·92	
	Soopool ...	8·00	
35	Purneah ,, 23, '90	4·35	A good deal of rain with occasional sunshine. *Aghani* transplantation continues. *Bhadoi* harvesting going on. Steeping of jute begun. Rivers falling.
	Kishengunge ...	4·65	
	Arrareah ...	4·84	
36	Maldah ,, 23, '90	7·18	Heavy showers with changeable winds. In the centre and south of the district a great deal of the *bhadoi* crop has been damaged by inundation. The jute and rice crops around Kharba and Chanchal are splendid, and the latter has been benefited by the copious rainfall. Common rice selling at from 12 to 18 seers a rupee.
	Shibgunge ...	1·20	
	Gajole ...	4·69	
37	Sonthal Perghs. ,, 23, '90	7·00	Weather—seasonable. *Makai* damaged a good deal by rain. In Deoghur only four annas crop expected; elsewhere ten or twelve annas crop. Rice prospects excellent, but of course depend greatly on September rainfall.
	Deoghur ...	2·81	
	Godda ...	3·60	
	Jamtara ...	2·15	
	Pakour ...	2·83	
	Rajmehal ...	2·62	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Aug. 23, '90	1·60	Rainfall during the week has been insufficient. *Satika beali* is being gathered. In the Dharmsala thana of the Jajpur subdivision *guru beali* is withering for want of sufficient rain. In the Tirtol thana of the Sudder subdivision *sarad* paddy has in some places been attacked by an insect locally known as *soonamuhi*. General prospects fair.
	39	Pooree ,, 21, '90	2·26	Weather—seasonable. Puddling and weeding of the *sarad* crop are in progress. *Beali* is beginning to ripen. Miscellaneous crops are doing well. Prices of common rice vary from 18 seers 6 chittacks to 21 seers per rupee in the Sudder subdivision.
		Khoorda ...	0·62	
		Banpur ..	0·89	
	40	Balasore ,, 23, '90	1·59	Weather—cool and cloudy. Prospects of rice crop generally good, but more rain urgently needed, especially in Bhuddruk subdivision. Number of coolies on relief-works 27.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Aug. 23, '90	3·96	Weather—seasonable. Ample rain all over the district. Transplanting of paddy nearly completed in most places. Prospects very good. *Bhadoi* crops, particularly Indian-corn, greatly damaged by excessive rain. Prices more or less stationary.
	42	Lohardugga ,, 23, '90	1·34	Weather—warm and cloudy. Transplantation of winter rice still going on. Prospect of *bhadoi* good. *Goondli* is being reaped. Prices steady.
		Palamow (up to 18th Aug.)	2·63	
	43	Singbhoom Aug. 23, '90	0·42	Rain holding off in greater part of the district. Weather cloudy and cool. Damage is being done to the rice crop on the "bera" lands by the break in the rains. Rain is badly wanted in all parts but Monorpore and Bharagoora. Indian-corn is a full crop, and other *bhadoi* crops are yielding fully.
	44	Manbhoom ,, 23, '90	2·03	Weather—seasonable. Prospects of winter rice crop generally favourable. *Bhadoi* crop is not up to the average, and from Govindpur it is reported to be a failure.
		Govindpore ...	0·76	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 26th August, 1890.

P. NOLAN.
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ...	14 8	14 8	13 4	...	...	...	12 0	12 0	11 4	15 9	14 10	13 14	...	...	...
2	Bankoora ...	15 8	15 0	13 8	20 0	20 0	17 8	16 0	15 0	14 8	19 0	18 0	17 4	.	...	...
3	Beerbhoom ...	16 8	16 8	15 0	...	...	...	13 8	13 8	12 8	16 8	16 8	14 4	...	...	...
4	Midnapore ...	11 0	12 0	13 6	...	...	...	13 0	13 0	12 0	15 8	16 4	14 0 17 0	..	...	...
5	Hooghly ...	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	11 0	...	...	...
	Howrah ...	...	...	..	...	...	...	9 0	11 4	10 0	13 4	13 4	13 0	...	...	...
	Central Districts.															
	Calcutta ..	13 8	13 6	12 14	17 8	17 8	16 12	9 2	9 10	8 14	13 8	13 9	13 8	18 7	19 3	17 12
6	24-Pergunnahs	15 0	15 0	14 0	18 0	18 0	17 0	8 0	8 0	7 0	13 4	13 12	13 4	...	...	...
7	Nuddea ...	15 13	15 10	14 0	20 0	20 0	...	11 6	11 5	10 10½	13 0	12 12	12 9	...	..	...
8	Khoolna ...	...	...	...	...	...	...	11 3	12 4	10 12	13 1	14 0	12 13	...	...	...
9	Jessore ...	13 4	13 4	13 0	...	...	...	11 0	11 0	11 0	14 0	15 0	13 0	...	...	...
10	Moorshedabad	16 12	16 0	15 0	...	...	...	10 0	11 0	10 0	14 8	15 0	14 0	...	...	...
11	Dinagepore	13 12	15 0	13 8	21 5	15 9	25 0	12 0	13 4	12 0	15 8	15 8	14 8	...	...	...
12	Rajshahye ...	15 0	16 8	15 0	22 8	24 0	26 4	12 0	12 12	10 8	14 4	14 4	12 0	...	...	...
13	Rungpore ...	13 5	13 5	13 5	...	...	...	9 6	9 6	11 0	13 5	13 5	13 5	...	...	...
14	Bogra ...	15 12	15 15	12 12	...	...	...	12 0	12 0	9 12	15 12	15 15	14 4	...	...	...
15	Pubna ...	18 0	18 12	16 8	...	...	...	7 2	7 8	7 8	15 6	15 6	13 14	...	...	...
16	Darjeeling ...	8 0	8 0	10 0	10 0	9 8	10 0	5 0	5 0	5 0	11 0	9 0	11 0	...	...	...
17	Julpigoree ...	13 0	14 0	11 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	13 0	...	...	...
	Eastern Districts.															
18	Dacca ...	12 0	13 0	13 0	13 0	14 0	26 0	12 0	12 0	10 0	14 0	14 0	13 0	...	...	...
19	Furreedpore ...	15 0	15 0	15 0	20 0	20 0	16 0	10 0	10 0	9 0	14 0	15 0	12 0	...	...	...
20	Backergunge ...	...	...	...	...	...	...	11 14	11 14	11 4	13 5	16 0	12 8	...	...	...
21	Mymensingh ...	11 8	11 4	10 0	...	...	...	11 0	10 4	11 8	13 8	13 6	13 4	...	...	...

A In subdivisions retail prices of salt per rupee are :—Chuna 10 seers, Cutwa 10 seers 6 chittacks, and Ramsegunge 10 seers.
B At Rampore Haut retail price of salt 9 seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 8 seers, Tumlook 8 seers, and Ghatal 11 seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 11 seers and Jehanabad 10 seers 10 chittacks.
E In subdivisions retail prices of salt per rupee are :—Baraset 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpore 10 seers, Chooadanga 10 seers, and Ranaghat 9 seers 2 chittacks.
G At Satkhira retail price of salt 10 seers per rupee.

...e Districts of Bengal on the 15th August, 1890.

OF 80 TOLAHS.

...OR CUMBU. (...setum typhoideum.)		MARUA OR RAGI. (*Eleusine Coracana.*)		
Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
13 4	12 4	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	13 0	10 0	12 0
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...

FIREWOOD.		SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS.
Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
								BENGAL.
								Western Districts.
S. Ch.	S. Ch.	S. Ch.	S Ch.	S Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
100 0	100 0	A t 10-14-1½	t 10-14-1½	t 10-8-3	3 8 9	3 8 9	3 11 3	Burdwan.
240 0	240 0	10 4	10 4	10 0	3 15 0	3 15 0	3 15 0	Bankoora.
160 0	160 0	B 10 8	10 8	10 8	3 10 0	3 10 0	3 10 0	Beerbhoom.
120 0	160 0	C 10 8	10 2	10 6	3 13 0	3 12 0	3 13 6	Midnapore.
120 0	120 0	D 9 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.
100 0	100 0	10 0	10 0	10 8	3 11 0	3 11 6	3 10 0	Howrah.
								Central Districts.
92 8	100 0	10 7	10 7	10 8	3 9 3	3 9 3	3 9 0	Calcutta.
100 0	100 0	E 10 4	10 0	10 8	3 7 0	3 8 0	3 9 0	24-Pergunnahs.
...	...	F 9 13	9 13	9 2	3 13 0	3 13 0	3 12 0	Nuddea.
160 0	140 0	G 8 8	9 0	9 0	4 2 0	4 4 0	4 0 0	Khoolna.
160 0	160 0	H 9 2	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.
200 0	200 0	I 11 4	10 10	10 0	3 8 0	3 12 0	3 10 3	Moorshedabad.
168 0	160 0	J 10 0	10 0	10 0	4 0 0	4 0 0	3 15 0	Dinagepore.
240 0	240 0	K 9 0	9 0	9 9	4 2 8	4 2 8	4 0 0	Rajshahye.
100 0	120 0	L 9 6	9 6	9 7	4 4 0	4 4 0	4 4 0	Rungpore.
90 0	68 9	9 0	9 0	8 10	4 2 8	4 2 8	4 2 8	Bogra.
200 0	200 0	M 8 11½	8 11½	9 2½	3 15 0	3 15 0	3 15 0	Pubna.
120 0	120 0	N 6 8	6 8	7 0	6 0 0	6 0 0	5 0 0	Darjeeling.
128 0	128 0	O 9 0	9 0	9 0	4 4 0	4 4 0	4 2 0	Julpigoree.
								Eastern Districts.
160 0	160 0	P 9 8	9 8	10 0	4 2 0	4 2 0	3 15 0	Dacca.
120 0	120 0	10 0	10 0	9 0	3 14 0	3 14 0	4 0 0	Furreedpore.
120 0	120 0	Q 10 0	10 0	10 0	3 14 0	4 0 0	3 14 0	Backergunge.
...	...	R 9 8	9 8	10 0	4 2 0	4 2 0	4 0 0	Mymensingh.

...r rupee.
...are:—Nattore 9 seers and Nowgong 9 seers 9 chittacks.
...are:—Nilphamari 9 seers and Kurigram 8 seers.
...r rupee.
...ce.
...ice of salt 8 seers per rupee,
...are:—Manickgunge 8 seers, Moonsheegunge 8 seers 14 chittacks, and Narain-
...are:—Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers.
...—Kishoreegunge 8 seers, Tangail 10 seers, Jamalpore 10 seers, Sherpore 8 seers,

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																		
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	10 0	...	...	...	11 0	12 0	10 0	14 12	15 0	12 12	.	...	...
23	Noakholly ...	...	...	...	...	...	...	11 0	12 0	11 8	12 0	13 0	13 0	...	...	...
24	Tipperah ...	14 8 8/11	14 8 8/11	12 0	...	..	.	8 14	8 14	13 0	13 5	13 14½	14 0		.	...
25	Chittagong Hill Tracts.	...	...	...	...	...		11 6¾	11 6¾	9 11	12 5	12 5	10 0	...	.	...
	Hill Tipperah	6 0	6 0	6 0	...	...	...	8 0	8 0	8 0	14 0	15 0	12 0	...	.	...
	BEHAR.		Red.													
26	Patna ...	16 12 / 15 12	17 12 / White. 16 12	... / 16 0	21 8	24 8	20 8	10 8	10 8	10 0	15 12	16 12	13 8	22 0	19 0	20 0
27	Gya ...	15 0	15 8	14 8	20 0	20 0	20 0	11 0	10 0	9 0	15 0	15 8	12 8	...	...	...
28	Shahabad ...	16 0	15 8	14 8	21 0	21 0	17 8	8 0	8 0	9 0	15 0	15 0	13 4	..	...	...
29	Durbhunga ...	16 8	15 6	14 13	19 12	19 12	16 9	11 0	12 0	9 6	16 8	15 6	12 5	...	...	...
30	Mozufferpore ...	17 0	17 0	13 8	20 0	21 0	16 0	11 0	11 0	9 0	14 0	15 0	12 0	...	...	...
31	Sarun ...	15 8	16 4	15 4	19 0	21 8	17 12	8 8	8 8	8 0	13 0	14 0	11 8	...	...	...
32	Chumparun ...	17 0	17 0	13 8	22 0	25 0	15 0	8 0	8 0	7 0	16 0	14 12	10 8	..	...	...
33	Monghyr ...	17 13	18 6	15 15	21 0	23 1	16 12	11 8	13 2	10 8	14 11	15 12	11 10	...	...	...
34	Bhagulpore ...	17 11	17 11	16 6	22 11	21 7	17 10	Old. 10 1 / New. 12 10	Old. 10 11 / New. 13 0	10 11	13 14 / 16 6	Old. 13 14 / New. 17 0	12 10 / ...	...	...	...
35	Purneah ...	18 0	18 0	15 0	...	...	..	15 0	15 0	10 0	17 0	18 0	11 0	...	...	...
36	Maldah ...	18 8	19 0	16 0	...	...	...	9 0	12 0	10 0	15 8	15 0	14 0	...	...	...
37	Sonthal Perghs.	13 0	14 0	12 8	...	...	...	13 0	13 0	12 8	17 0	16 0	14 8	...	...	...
	ORISSA.															
38	Cuttack ...	15 12	15 12	11 13	...	...	...	10 8	10 8	10 8	18 6*	17 1	15 12	...	...	...
39	Pooree ...	10 8	10 8	10 8	...	...	...	13 12	11 13	11 13	18 8	17 1	14 7	...	...	...
40	Balasore ...	15 0	15 0	14 0	18 0	18 0	13 0	12 0	12 0	13 0	18 0	19 0	17 0	..	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	14 0	15 0 / 14 0	12 0	18 0	18 0	...	9 0	9 0	8 0	16 0	16 0	14 0	...	...	...
42	Lohardugga ...	13 4 / ...	Red. 13 12 / White. 8 to 10 8½	10 4 / ...	16 0	15 0	9 8	14 8	14 0	12	Ordinary. 18 0 / Coarse. 20 0	16 0 / 19 0	15 0 / ...	...	...	...
43	Singbhoom ...	12 0	10 0	10 0	20 0	16 0	12 0	16 0	16 0	18 0	20 0	20 0	20 0	...	...	...
44	Manbhoom ...	13 5	13 0	11 8	...	...	...	12 0	12 0	11 8	18 0	17 0	15 8	...	...	...

* Price of common rice at Jajpore 19 seers 11 chittacks and at Kendrapara 21 seers per rupee.
S At Cox's Bazar retail price of salt 8 seers per rupee.
T At Fanny Hát retail price of salt 8½ seers per rupee.
U In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Sasseram 10 seers 12 chittacks, and Bhabuah 9½ seers.
V At Samastipore retail price of salt 10 seers per rupee.
W In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

S OF 80 TOLAHS.

...RA OR CUMBU. (...nisetum typhoideum.)		MARUA OR RAGI. (*Eleusine Coracana.*)		
Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	25 0	25 0	...
...	...	...	...	...
	...	...	...	...
	...	25 4	26 7	17 2
	...	...	...	...
	...	21 0	22 0	18 8
	...	...	...	...
	...	...	...	...
	...	...	...	...
	...	...	...	...
	...	...	...	...
	...	...	...	
	...	...	...	...
	...	...	...	...
	...	...	...	...
	...	29 0	28 0	24 0
	...	40 0	40 0	29 0
	...	...	...	...
	...	...	...	...

...s of Bengal on the 15th August, 1890—(concluded).

FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	*Eastern Districts*—concluded.
110 0	110 0	100 0	10 0[S]	9 0	10 8	3 14 0	3 14 0	3 12 0	Chittagong.
...	...	...	9 0[T]	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
...	...	...	9 6½	9 6½	9 0	4 4 0	4 4 0	4 4 0	Tipperah.
320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	5 0 0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
									BEHAR.
120 0	120 0	130 0	10 0	10 0	9 8	3 10 6	3 11 6	3 12 6	Patna.
200 0	200 0	200 0	9 0	9 0	9 2	4 1 0	4 1 0	4 2 0	Gya.
120 0	120 0	120 0	10 0[U]	10 0	10 0	3 15 0	3 15 0	3 14 0	Shahabad.
160 0	160 0	160 0	11 0[V]	11 0	11 6	3 8 0	3 8 0	3 7 9	Durbhunga.
160 0	160 0	160 0	10 0[W]	10 0	10 0	4 0 0	4 0 0	3 12 0	Mozufferpore.
120 0	160 0	160 0	10 0	10 0	10 0	4 0 0	4 0 0	4 0 0	Sarun.
160 0	160 0	160 0	10 0[X]	10 0	10 0	3 14 0	3 14 0	4 1 0	Chumparun.
147 0	147 0	126 8	10 3[Y]	9 7	9 14	3 11 0	3 10 0	4 2 0	Monghyr.
125 8	126 4	151 8	10 1	10 1	10 1	3 12 10	3 15 6	3 12 6	Bhagulpore.
130 0	130 0	...	9 0[Z]	9 0	9 0	4 7 0	4 7 0	4 7 0	Purneah.
120 0	160 0	140 0	9 8	9 0	9 8	4 0 0	4 2 0	4 0 0	Maldah.
200 0	[illegible] 0	200 0	9 0	9 8	9 0	3 14 0	3 14 0	4 3 0	Sonthal Perghs.
									ORISSA.
80 0	80 0	80 0	9 0	8 0	11 0	4 6 0	4 7 0	3 12 0	Cuttack.
[illegible]	80 0	80 0	10 0[Z1]	11 0	10 8	3 10 0	3 7 0	3 12 0	Pooree.
[illegible] 0	160 0	160 0	10 0[Z2]	10 0	10 0	3 14 0	3 14 0	3 14 0	Balasore.
									CHOTA NAGPORE.
									South-West Frontier Agency.
[illegible] 0	320 0	320 0	8 0	8 8	8 0	4 4 0	4 4 0	4 8 0	Hazaribagh.
[illegible] 0	120 0	130 0	9 0	9 0	7 0	4 6 0	4 6 0	5 2 0	Lohardugga.
[illegible] 0	240 0	200 0	8 0	8 0	7 0	4 12 0	4 8 0	5 8 0	Singbhoom.
[illegible] 0	200 0	200 0	9 2[Z3]	9 2	9 0	4 0 0	4 0 0	4 6 0	Manbhoom.

...er rupee.
...upee are :—Beguserai 9½ seers and Jamui 9 seers.
...rs per rupee.
...lt 10½ seers per rupee.
...per rupee.
...per rupee.

...lished for general information.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 0	2 11 8	2 13 4	2 0 7	2 0 7	2 2 6	4 1 10	3 14 4	4 4 0	2 11 4	2 11 4	2 11 0
2	Serajgunge ...	2 4 0	2 2 0	2 2 0	...	...	...	4 12 0	4 8 0	4 2 0	2 10 0	2 8 0	2 8 0
3	Dacca ...	3 4 0	3 0 0	3 0 0	3 0 0	2 13 0	1 8 0	3 4 0	3 4 0	4 0 0	2 13 0	2 13 0	3 0 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	2 13 0	3 0 0	2 12 0	2 9 0	2 12 0
5	Chittagong ...	3 8 0	3 8 0	3 12 0	...	...	...	3 8 0	3 4 0	4 0 0	2 12 0	2 10 0	3 0 0
6	Patna ...	Red. 2 5 6 / White. 2 8 0	Red. 2 3 6 / White. 2 5 6	... / 2 7 0	1 13 0	1 9 6	1 14 6	3 12 0	3 12 0	3 14 0	2 8 0	2 5 6	2 14 6
7	Balasore ...	2 8 0	2 8 0	2 10 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 0 0	2 0 0	2 0 0	2 5 0
8	Pooree ...	...	..	...	...	..	...	...	...	...	2 2 9	2 4 0	2 6 0
9	Cuttack ...	2 5 0	2 5 0	3 4 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	2 5 0

CALCUTTA,
The 26th August, 1890.

...the undermentioned Marts of Bengal on the 15th August, 1890.

...SEERS.

...L OR RAGI. ...e Coracana.)		KANGNI OR KAKUN, ITALIAN MILLET. (*Setaria italica.*)		
Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
...A.P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	...	4 7 8	4 4 0	2 0 0
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
8 0	...	2 2 0	2 3 0	2 0 0
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...

...IZE.		ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
...corresponding return of last year.		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
...A. P.		R. A. P.	R A. P.	R A. P.	R. A. P.	R A. P.	R. A. P.	R A. P.	R. A. P	R. A P.	
12 0		2 3 4	2 2 8	2 0 0	0 5 9	0 5 9	0 5 6	3 9 3	3 9 3	3 9 0	Calcutta.
...		...	...	...	...	...	...	3 11 0	3 12 0	3 14 0	Sorajgunge.
...		3 8 0	3 4 0	2 6 0	0 6 0	0 6 0	0 4 0	4 2 0	4 2 0	3 15 0	Dacca.
...		3 8 0	3 9 0	3 12 0	0 8 0	0 8 0	0 10 0	3 12 0	3 13 0	3 12 0	Naraingunge.
...		...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 12 0	Chittagong.
2 6		1 12 0	1 11 6	1 13 0	0 5 6	0 5 6	0 5 0	3 10 6	3 11 6	3 12 6	Patna.
...		...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	3 14 0	Balasore.
..		...	...	...	...	...	...	3 10 0	3 7 0	3 12 0	Poorce.
...		1 10 0	1 10 0	2 5 0	0 8 0	0 8 0	0 8 0	4 6 0	4 7 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Ber

week ending Friday, the 22nd of August 1890.

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 0 a.m.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.
Orissa.	Pooree	Pooree	29·680	29·692	—	Calm	210	90·7	16 & 19 Aug.	76·6	22nd Aug.	86·9	79·7	84·3	—
		Gopalpore	29·664	29·686	+·054	Calm	213	89·2	19 & 22 ,,	79·8	22nd ,,	87·8	80·7	84·3	+1·6
		False Point	29·673	29·694	+·031	South-westerly	237	88·5	19th ,,	75·6	22nd ,,	87·1	78·4	82·8	+0·4
	Cuttack	Cuttack	29·619	29·700	+·046	Southerly	45·3	91·9	18th ,,	76·8	22nd ,,	90·0	78·5	84·3	+0·7
	Balasore	Balasore	29·635	29·694	+·048	SSW	124·3	90·4	20th ,,	76·7	20 & 21 ,,	87·8	78·3	83·1	+1·3
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·671	29·697	+·045	S	350	90·2	19th ,,	77·0	22nd ,,	88·2	79·9	84·1	+1·1
	Midnapore	Midnapore	29·540	29·601	+·033	S	147·1	93·3	19th ,,	77·1	21st ,,	90·7	78·3	84·5	+0·7
	24-Pergunnahs, Howrah, Hooghly	Calcutta	29·676	29·698	+·043	S	65	90·0	19th ,,	77·2	21st ,,	87·6	78 1	82·9	+0·5
	Burdwan	Burdwan	29·594	29·695	+·0 6	S	115·9	92·1	19th ,,	79·4	17th, 18th, & 21st Aug.	90 6	80·0	85 3	+1·5
	Bankoora	Bankoora	29·361	29·661	+·023	S	64·0	91·6	19th ,,	77·5	17th to 19th Aug.	90·5	78·1	84·3	+1·6
	Beerbhoom, West Burdwan	Raneegunge	29·547	29·681	+·033	SSE	49·0	90·5	19th ,,	76·8	19th ,,	89·1	78·3	83·7	+0·8
	Moorshedabad	Berhampore	29·618	29·685	+ 018	S	125·6	90·1	17th ,,	76·3	17th ,,	87·7	78·9	83·3	+0·2
	Nuddea	Krishnaghur	29·634	29·692	+·042	SSE	143·8	?	?	?	?	?	?	?	?
	Jessore, Khoolna	Jessore	29·667	29 701	+·030	SSE	91·5	91·2	19th ,,	79·4	18th, 20th & 21st Aug.	89 2	79·8	84·5	+1·1
East Bengal.	Chittagong	Chittagong	29·700	29·791	+·057	SSE	152·1	87·1	15 & 17 ,,	72·0	16th & 18th to 20th Aug.	80·4	72·3	79 4	—1·2
	Chittagong Hill Tracts	Demagiri						Observations not received.							
	Backergunge	Barrisal	29·694	29·706	+·036	S	145·4	88·3	18th Aug.	75·9	22nd ,,	85·7	78 3	82·0	+0·5
	Noakholly	Noakholly	29·728	29·772	+·065	S	224·4	85·5	18th ,,	75·3	16th ,,	84·5	76·6	80·6	—0·6
	Furreedpore	Furreedpore	29·690	29·730	+·038	S & SE	172·0	87·0	17th & 18th Aug.	77·4	21st ,,	86·0	79·7	82·9	+0·3
	Dacca	Dacca	29·655	29·718	+·029	SSW	240·3	90·1	18th ,,	76·2	22nd ,,	86·8	78 0	82 4	—0·8
	Commillah	Commillah	29·718	29·754	+·046	SE	164·0	88·1	17th ,,	75·3	21st ,,	87·1	76·1	81·6	—0·4
	Mymensingh	Mymensingh	29·667	29·725	+·026	SSE	125·8	88·2	18th ,,	76 6	22nd ,,	86·2	77·8	82·0	—0·8
North Bengal.	Bogra	Bogra	29·624	29·686	+·042	SE	64·3	90·3	16 & 19 ,,	74·6	17th ,,	87·8	77·2	82·5	—0·6
	Pubna	Serajgunge	29·661	29·708	+·023	S & SSE	124·1	87·6	17th ,,	76·7	20th ,,	86·1	79·0	82·6	—0·6
	Rajshahye	Rampore Beauleah	29·621	29·691	+·038	Southerly	200·3	87·3	17th & 19th Aug.	75·6	19th ,,	86·3	79·0	82·7	0
	Maldah	Maldah	29·597	29·679	+·007	SW	78·1	90·5	16th ,,	76·2	17 & 18 ,,	87·3	77·8	82·6	—2·1
	Dinagepore	Dinagepore	29·576	29·696	+·010	S	55·0	90·1	16th ,,	76·7	17th ,,	86·5	78·4	82·4	—1·5
	Rungpore	Rungpore	29·582	29·708	+·029	ESE	56·0	90·3	16th ,,	74·9	17th ,,	86·7	77·4	82·0	—1·5
	Julpigoree, Coooch Behar	Julpigoree	29·408	29·698	+·024	?	102·3	86·4	16th, 17th & 21st Aug.	74 1	18 & 20 ,,	83·4	74·8	79·1	—3·3
	Darjeeling Hill Tracts	Darjeeling	22·904	—	—·019	ENE	50·3	66·6	16th ,,	55·6	20th ,,	63·0	56·8	59·9	—1·5
North Behar.	Purneah, North Bhagulpore	Purneah	29·551	29·679	+·010	Calm	35·0	91·2	16th ,,	75·9	17th, 18th & 22nd Aug.	87·4	76·8	82·1	—1·4
	Mozufferpore	Mozufferpore	29·484	29·605	—	Variable	90·5	89·3	21st ,,	77·2	17 & 18 ,,	87·2	79·0	83·1	—
	Durbhunga	Durbhunga	29·509	29·677	+·015	Easterly	69·6	90·4	22nd ,,	76·0	18th ,,	87·4	77·4	82·4	—1·5
	Chumparun	Motihari	29·454	29·683	+·022	ENE	117·7	93·2	16th ,,	75·9	18th ,,	87·8	77·9	82·9	— 1·1
	Sarun	Chupra	29·465	29·659	+·021	Variable	92·7	91·3	16 & 17 ,,	73·6	19th ,,	87·4	76·6	83·0	—0·4
South Behar.	Shahabad	Dehree	29·315	29·672	+·025	W	18·1	90·8	16th ,,	75·5	17th ,,	86·8	77·4	82·1	—0·3
		Buxar	29·453	29·677	+·037	NW	87·4	90·9	16th ,,	75·3	22nd ,,	86·3	77·4	82·1	—2·0
		Arrah	29·405	29·661	+·032	Calm	16·4	92·4	17th ,,	76·6	17 & 22 ,,	88·4	77·9	83·2	—1·1
	Gya	Gya	29·294	29·674	+·033	W	107·6	92·4	17th ,,	75·3	17th ,,	87·7	78·0	82·8	—1·3
	Patna	Bankipore	29·483	29·667	+·015	Variable	73·3	93·4	16th ,,	75·7	17th ,,	87·5	78·6	83·1	—1·4
South Behar.	South Bhagulpore, Monghyr	Bhagulpore	29·496	29·661	+·016	S & Calm	30·0	89·3	16th ,,	76·0	17th ,,	87·1	77·7	82·4	—1·3
	Sonthal Pergunnahs	Doomka	29·189	29·686	+·035	S	90·1	89·1	16th ,,	73·8	17th ,,	86·7	75·9	81·4	—0·8
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·684	29·689	+·033	Calm	161·5	85·4	18th ,,	73·2	22nd ,,	83·0	73·9	78·0	—0·2
	Lohardugga, Manbhoom	Ranchee	27·563	29·685	—·033	SW	126·7	85·0	17th ,,	70·9	17th & 20th Aug.	83·2	73·0	77·6	+0·7
	Singhbhoom	Chyebassa	28·853	29·615	—·020	WSW	35·6	90·2	16 & 17 & 19th Aug.	76·2	15th ,,	90·2	76·9	83·5	+1·7
Assam.		Sibsagar	29·407	29·743	+·011	SW		89·6	16th ,,	75·0	19th ,,	87·5	76·6	82·1	—2·1
	Assam	Dhubri	29·593	29·711	+·020	Variable	121·7	87·2	16th ,,	75·8	17th ,,	83·5	76·9	80·1	—2·6
		Silchar	29·660	29·767	+·037	Calm	46·0	90·5	20th ,,	75·3	22nd ,,	86·9	76·6	81·8	—1·3

Meteorological Division.	District.	Representative station.	DISTRICT OBSERVATIONS. Rainfall of week ending at 8 a.m. for week.	Rainfall. Of week. Mean for district.	Rainfall. Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Rainfall. Since 1st of month. Normal mean.	Rainfall. Since 1st of month. Variation.	Rainfall. Since 15th May 1890. Mean for district.	Rainfall. Since 15th May 1890. Normal mean.	Rainfall. Since 15th May 1890. Variation.	Rainfall. Average number of rainy days.	Rainfall. Normal number of rainy days.	Representative station.	District.	Meteorological Division.
Orissa.	Pooree	Pooree	6·9	5·63			2·84			31·06			4·5	Pooree	Pooree	Orissa.
		Gopalpore	3·1	0·03										Gopalpore		
		False Point	7·9	5·33										False Point		
	Cuttack	Cuttack	8·0	1·52			2·97			32·06			4·6	Cuttack	Cuttack	
	Balasore	Balasore	0·3	2·21			2·81			32·91			4·6	Balasore	Balasore	
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	8·6	1·87	2·29	3·36	7·06	10·55	—2·59	32·20	38·03	—5·83	3·0	4·8	South-West Midnapore, South 24-Pergunnahs	South-West Bengal.
	Midnapore	Midnapore	3·6	0·57	0·35	3·32	2·70	10·31	—7·61	31·94	34·53	—2·59	2·0	4·5	Midnapore	Midnapore
	24-Pergunnahs, Howrah, Hooghly	Calcutta	8·0	0·52	0·07	3·41	6·49	10·06	—3·57	34·79	35·08	—0·29	2·8	4·7	24-Pergunnahs, Howrah, Hooghly	
	Burdwan	Burdwan	8·3	0·04	0·31	2·91	5·06	9·13	—4·07	42·62	31·17	+11·45	1·3	4·6	Burdwan	
	Bankoora	Bankoora	0·0	0·94	1·26	3·24	3·76	10·55	—6·79	30·61	35·82	+0·79	2·5	4·7	Bankoora	
	Beerbhoom, West Burdwan	Raneegunge	6·4	1·38	2·45	3·39	7·71	9·84	—2·13	42·69	34·84	+7·85	4·8	4·8	Beerbhoom, West Burdwan	
	Moorshedabad	Berhampore	9·0	2·52	2·45	2·48	7·60	8·58	—0·78	39·75	31·74	+8·04	4·5	4·5	Moorshedabad	
	Nuddea	Krishnaghur	7·9	0·60	1·10	3·17	6·19	9·14	—2·95	33·80	32·63	+1·17	3·6	4·9	Nuddea	
	Jessore, Khoolna	Jessore	9·1	0·73	1·50	3·10	6·85	9·40	—2·04	37·81	36·39	+1·42	4·4	5·0	Jessore, Khoolna	
East Bengal.	Chittagong	Chittagong	8·1	1·77	5·58	4 57	13·47	18·59	—5·12	91·45	84·59	+6·86	6·0	5·5	Chittagong	East Bengal.
	Chittagong Hill Tracts	Demagiri				3 70		12·66			53·76			5·7	Chittagong Hill Tracts	
	Backergunge	Barrisal	8·7	1·77	3·63	3·08	9·05	11·92	—2·87	50·87	53·03	—2·16	4·5	5·1	Backergunge	
	Noakholly	Noakholly	4·6	6·30	9·72	5·77	18 05	19 55	—1·51	71·62	74·91	—3·29	7·0	5·5	Noakholly	
	Furreedpore	Furreedpore	5·7	5·24	2·70	3·17		9·15			37·99			5·2	Furreedpore	
	Dacca	Dacca	8·6	2·61	3·13	2·70	8·50	9·66	—1·16	45·15	40·97	+4·18	5·5	5·0	Dacca	
	Commillah	Commillah	6·4	4·95	2·99	3·59	6·90	12·09	—5·19	44·59	46·59	—2·00	4·5	5·2	Commillah	Tipperah
	Mymensingh	Mymensingh	8·1	3·30		3·03		9·71			45·53			5·1	Mymensingh	
North Bengal.	Bogra	Bogra	8·0	5·01	3·75	2·30	8·28	7·83	+0·45	42·47	38·05	+4·42	5·3	4·1	Bogra	North Bengal.
	Pubna	Serajgunge	8·0	2·87	2·61	3 25	5·55	8·43	—2·88	32·83	33·96	—1·13	5·5	4 3	Pubna	
	Rajshahye	Rampore Beauleah	3·0	2·27	2·24	2·32	5·38	7·89	—2·51	47·13	33·85	+13·28	5·3	4·4	Rajshahye	
	Maldah	Maldah	7·1	7·81	6·42	2·55	11·50	8·21	+3·29	56·48	34·86	+1·62	7·0	4·6	Maldah	
	Dinagepore	Dinagepore	9·3	6·16	5·41	2 15	11·00	8·26	+2·74	47·79	37·99	+9·80	4·6	4·2	Dinagepore	
	Rungpore	Rungpore	4 9	5·64	6·37	2·27	10·91	8·17	+2·74	56·43	51·06	+5·37	6·5	4·0	Rungpore	
	Julpigoree, Coooch Behar	Julpigoree	5·1	12·58	14·29	3·87	20·58	15·40	+5·18	99·10	75·86	+23·24	7·0	5·3	Julpigoree, Coooch Behar	
	Darjeeling Hill Tracts	Darjeeling	10·0	9·10	11·37	5·43	21·31	20·45	+0·86	118·36	87·98	+30·38	7·0	5·8	Darjeeling Hill Tracts	
North Behar.	Purneah, North Bhagulpore	Purneah	9·6	6·41	6·16	2·70	10·99	9·56	+1·43	55·44	37·84	+14·60	5·6	4·2	Purneah, North Bhagulpore	North Behar.
	Mozufferpore	Mozufferpore	7·8	3·73	3·10	1·78	7·47	7·59	—0 12	37·69	27·82	+9·87	6·0	3·5	Mozufferpore	
	Durbhunga	Durbhunga	7·9	2·39	4·02	1·87	8·66	7·43	+1·23	43·65	28·35	+15·30	5·7	3·5	Durbhunga	
	Chumparun	Motihari	8·6	1·65	3·15	2·45	3·15	9·11	—5·96	45·88	30·74	+15·14	5·0	3·6	Motihari	Chumparun
	Sarun	Chupra	5·9	4·49	4·78	1·49	11·04	7·03	+4·01	40·52	26·75	+13·79	5·7	3 1	Chupra	Sarun
South Behar.	Shahabad	Dehree	8·6	3·58											Dehree	
		Buxar	9·4	4·84	2·97	2·40	9·00	8·48	+0·52	36·36	25·69	+10·67	5·0	3·7	Buxar	Shahabad
		Arrah	6·1	1·55											Arrah	
	Gya	Gya	7·7	7·01	7·33	2·52	13·60	8·50	+5·10	45·17	27·73	+17·44	6·3	3·4	Gya	
	Patna	Bankipore	10·0	4·54	2·62	2·03	7·33	7·51	—0·18	33·45	27·17	+5·31	5·0	3·5	Bankipore	
South Behar.	South Bhagulpore, Monghyr	Bhagulpore	9·4	4·98	4·08	2·26	8·25	8·19	+0·06	39·96	28·49	+11·47	4·6	4·0	Bhagulpore	South Bhagulpore, Monghyr
	Sonthal Pergunnahs	Doomka	3·1	7·00	3·56	2·87	9·35	8·56	+1·39	43·37	33·05	+10·43	4·7	4·4	Doomka	Sonthal Pergunnahs
Chutia Nagpur.	Hazaribagh	Hazaribagh	10·0	3·32		3·53		10·23			33·39			4·8	Hazaribagh	
	Lohardugga, Manbhoom	Ranchee	9·6	0·64	2·33	2·97 2·83	6·96	9·98 10·23	—3·26	31·49	32·00 33·12	—0·63	5·5	4·9 4·8	Ranchi	Lohardugga, Manbhoom
	Singhbhoom	Chyebassa	5·6	0·44	0·42	3·54	2·97	11·04	—8·07	24·53	36·23	—11·70	4·0	5·1	Chyebassa	Singhbhoom
Assam.		Sibsagar	10·6	6·50											Sibsagar	
	Assam	Dhubri	9·8	8·02											Dhubri	Assam
		Silchar	10·0	4·65											Silchar	

Explanation.—*Summary.*—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for t
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The ra
are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during th
stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

a. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
b. Cloud amounts represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
c. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 22nd of August 18

Meteorological division.	District.	Station.	Rainfall. Saturday, 16th August.	Sunday, 17th August.	Monday, 18th August.	Tuesday, 19th August.	Wednesday, 20th August.	Thursday, 21st August.	Friday, 22nd August.	Total number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.
Orissa ...	Pooree ...	Pooree ...	.....	0·05	.....	.....	0·75	0·89	3·30	4	4·99	10·03	6·64	35·97
		Khurdah ...	0·19	.....	0·05	.....	0·25						9·50	
		Banpur ...	.....	.....	0·20	0·47							9·30	
		False Point ...	.....	.....	0·32	.....	2·18	0·81	2·02	4	5·33	8·43	10·38	33·41
		Gop ...											?	
		Satpara ...	.....	.....	.....	.....	0·30						?	
		Pipli ...												
	Cuttack ..	Jagataingpore	.....	.....	... ..	0·97	.....	1·71					7·72	
		Banki ...	.....	.....	0·05	0·00	...	0·85					7·39	
		Cuttack ...	... ..	.....	.....	.....	0·10	0·30	1·20	3	1·60	8·82	8·73	45·43
		Kendrapara ...	0·04	.....	... .	0·01	0·21	1·85	0·03	5	2·17	5·61	9·66	25·19
		Jajpore ...	... ..	.. ...	0·25	.....	0·12	.....	.....	2	0·37	4·82	8·47	30·69
		Dharmsala ...	.....	.....	.....	.....	.....	0·30					?	
		Salipore ...											?	
	Balasore ...	Chandbali ...	.....	...	.....	.....	0·27	0·06	0·03	3	0·36	5·29	9·10	28·34
		Bhuddruck ...	.....	0·06	... .	.....	0·18						8·16	
		Sorah ...			1·40	.....	0·20						8·71	
		Balasore ..	.....	0·09	.. .	.....	.....	1·49	0·01	3	1·59	7·49	9·78	33·44
		Jellasore ..	0·10	.....	.....	.....	.....	.....	0·24	2	0·34	8·14	8·55	31·89
		Haripodah ...											9·10	
South-West Bengal.	Midnapore ...	Contai ...	.....	.....	... ..	.....	0·46	0·29	0·60	3	1·35	5·22	10·30	29·04
		Saugor Island	.....	.....	0·02	.....	.....	0·42	1·43	3	1·87	3·41	11·23	31·80
		Tumlook ..	... .	... ..	.....	.....	.....	0·20	0·10	2	0·30	3·30	9·97	35·40
		Midnapore ...	.....	.....	.....	. ....	0·15	0·35	.....	2	0·50	3·34	9·10	32·19
		Ghatial ...	.....	... ..	.....	.. .	0·03	0·21	... ..	2	0·24	1·45	11·87	29·88
		Kukrahaty ...	.....	.....	... ..	0·11	.....	0·14	0·09	3	0·34	5·38	?	23·59
		Garbetta ...	.....	.....	0·22								?	
	24-Pergunnahs	Dismond Harbour ...	.....	.....	.....	1·12	.....	0·32	2·22	3	3·66	10·27	10·11	35·72
		Canning Town	.....	.....	.....	.....	0·54	... ..	0·20	2	0·74	12·55	?	41·41
		Alipore Jail ...	... ..	.....	...	... ..	0·03	0·10	0·13	3	0·24	5·76	10·26	35·43
		Barrackpore...	... ..	.....	.....	.....	0·45	0·34	0·05	3	0·84	5·08	9·65	30·14
		Dum-Dum ...	0·00	.....	... ..	0·08	0·03	0·09	0·20	5	0·49	6·79	9·93	30·11
		Baruset ...	.....	.....	.....	.....	0·10	0·73	0·20	3	1·03	6·90	9·01	31·41
		Buseerhat ...	.....	.....	.....	0·09	.....	0·80	0·36	3	1·25	8·72	10·10	40·43
	Howrah ...	Howrah ..	.....	.....	0·01	.....	.....	0·33	0·55	3	0·89	6·96	9·25	32·03
		Mohesreka ...	.....	.....	.....	.....	.....	0·23	... ..	1	0·23	5·55	10·05	42·47
		(*Ooloberiah*)												
	Hooghly ...	Serampore ...	.....	.....	.....	.....	0·30	0·35	0·05	3	0·70	5·47	9·78	31·33
		Hooghly ...	.....	.....	.....	.....	0·68	0·33	.....	2	1·01	6·04	9·81	31·89
		Jehanabad ..	0·02	.....	.....	.....	.....	0·04	.....	2	0·06	7·55	12·75	42·63
	Burdwan ...	Culna ...	.....	. ....	.....	.....	0·48	.....	.....	1	0·48	4·11	8·82	36·7
		Burdwan ...	.....	.....	.....	...	.....	.....	0·04	1	0·04	6·02	9·59	49·3
		Cutwa ...	.....	.....	.....	.....	... ..	0·15	0·26	2	0·41	5·04	9·02	41·8
		Raneegunge ...	0·02	.. ...	.. ...	1·14	0·14	0·05	0·03	5	1·38	8·05	10·03	41·8
		Mankur ...	0·12	.....	.....	0·10	0·29	0·24	.....	4	0·75	5·93	?	38·0
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	0·10	.....	0·82	2	0·92	2·67	10·73	40·1
		Bishenpore ...	.....	.....	0·19	.....	.....	... ..	0·45	2	0·64	2·68	11·13	35·8
		Maliara ...	. ....	.....	.....	0·03	0·47	1·86	0·22	4	2·58	6·55	10·22	44·8
		Khatra ...	.....	.....	.....	.....	0·08	.....	0·20	2	0·28	3·10	10·10	25·8
		Indas ...	.....	.....	.....	.....	0·40	0·20	.....	2	0·60	3·87	?	44·7
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·74	?	50·4
		Anda ...	... ..	.....	.....	0·33	... .	.....	0·75	2	1·08	2·47	?	34·6
		Gangajalghati	.....	.....	.....	.....	0·36	1·12	0·82	3	2·30	6·53	?	48·9
		Raipore ...	.....	.. ...	.. ...	.....	.....	.....	.....	Nil	Nil	4·15	?	35·9
		Sonamukhi ...	.....	.....	0·30	.....	.....	.....	0·15	2	0·45	5·88	?	36·6
	Beerbhoom ...	Bh. Scory ...	0·61	.....	.....	...	0·27	0·23	0·79	4	1·90	4·12	10·35	42·
		Hetampore ...	.... .	.. ..	0·17	0·54	0·20	0·90	1·04	5	2·91	6·04	9·47	38·
		Rampore Haut	.....	0·35	.....	2·10	0·41	0·11	0·05	5	3·62	12·65	9·50	47·
		Bolpore ...	0 22	.....	.....	0·53	0·21	0·13	0·13	5	1·22	6·79	?	40·
		Murarai ...	0·25	1·25	0·30	.....	.....	1·10	0·15	5	3·05		?	
	Nuddea ...	Ranaghat ...	0·08	.....	.....	.....	0·72	0·52	0·20	4	1·52	4·41	9·71	33
		Kishnaghur ...	.....	.....	.....	.....	0·60	0·02	.....	2	0·62	7·24	8·78	39
		Chooadanga ...	0·07	0·15	0·15	0·07	.....	0·45	0·07	6	0·96	6·98	9·88	29
		Meherpore ...	0·70	.....	.....	.....	0·24	...	.....	2	0·94	7·06	8·70	34
		Kooshtea ...	0·60	0·70	.....	.....	.....	0·10	0·07	4	1·47	5·32	8·83	31
	Khoolna ...	Satkhira ...	0·26	.....	.....	0·02	0·03	0·02	1·79	5	2·12	7·59	9·93	39
		Bagirhat ...	0·50	.....	.....	0·25	0·40	.....	1·64	4	2·79	6·91	9·99	48
		Khoolna ...	0·08	.....	.....	0·29	0·30	0·35	0·39	5	1·41	5·19	9·34	37
		Nakipur ...		0·01	... ..	1·15	1·15	3·75	0·23	5	6·29	10·60	?	44
		Rampal ...	.....	.....	.....	.....	0·93	.....	2·29	2	3·22	8·22	?	44
	Jessore ...	Narail ...	0·82	.....	0·04	.....	0·26	0·15	0·08	5	1·35	7·54	9·25	3
		Jessore ...	0·12	.....	.....	.....	.....	0·27	0·34	3	0·73	9·65	9·86	4
		Jhenidah ...	.....	.....	0·25	0·05	.....	0·75	0·04	4	1·10	6·73	10·19	3
		Magoorah ...	0·14	.....	0·05	.....	0·05	0·47	0·33	5	1·04	8·17	8·17	3
		Bongong ...	.....	.....	0·20	.....	0·15	0·10	1·00	4	1·45	6·84	9·24	3
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	0·98	0·32	2	1·30	7·91	8·32	4
		Berhampore ...	.....	0·08	.....	0·22	0·18	0·11	1·97	5	2·52	7·72	9·08	3
		Lalbagh ...	.....	0·12	.....	2·13	0·28	0·27	0·98	5	3·78	8·45	8·54	4
		Asimgunge ...	.....	0·25	.....	0·66	0·60	.....	0·17	4	1·68	5·99	9·31	3
		Jungipore ...	0·19	0·41	.....	0·16	0·28	0·29	0·15	6	1·41	8·42	8·01	3
		Lalgola ...	.....	0·49	.....	1·10	1·00	0·24	1·15	5	3·99	8·29	8·48	4
		Jiagunge ...											?	
		Akheriguni ...	.....	.....	0·30								?	
		Pathabari ...	.....	.....	.....	.....	.....	.....	1·50	1	1·50	16·70	?	4
East Bengal	Chittagong ...	Cox's Bazar ...	0·24	0·15	2·45	2·58	0·03	0·40	0·73	7	6·56	16·03	21·56	1
		Chittagong ...	0·39	.....	0·06	.....	0·03	0·68	1·03	5	2·16	10·90	15·59	9
		Autubdia ...	0·21	0·79	0·55								?	
		Sankanya ...	0·53	.....	0·49	0·06	0·09	0·11					?	
	Chittagong Hill Tracts	Rangamati ...	0·24	0·11	.....	.....	0·24	0·08	3·00	5	3·67	12·80	14·33	
		Ruma ...	0·21	0·10	0·17								10·96	
	Backergunge	Patuakhally ...	10·25	0·70	.....	.....	0·27	0·77	3·50	5	5·49	11·10	12·58	
		Perosepore ...	.....	.....	.....	0·35	.....	0·53	0·29	3	0·97	6·65	11·99	
		Burrisal ...	.....	.....	.....	6·27	0·18	0·29	1·15	4	1·92	8·87	9·93	
		Bhola ...	0·50	0·63	.....	2·02	0·19	0·94	1·86	6	6·14	11·27	13·18	

of Rainfall in Bengal for the week ending Friday (8 a.m.), the 22nd of August 1890—contd.

District.	Station.	Rainfall. Saturday, 16th August.	Sunday, 17th August.	Monday, 18th August.	Tuesday, 19th August.	Wednesday, 20th August.	Thursday, 21st August.	Friday, 22nd August.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
	Gourasadi ..	.....	... ...	.....	0·45	0·21	0·20	0·30	4	1·16	3·79	?	30·06	?
	Basphal ..	0·31	0·11	.....	0·04	0·61	0·84	1·64	6	3·55	9·48	?	50·21	?
Noakholly ...	Noakholly	2·32	0·34	0·12	0·39	0·18	0·94	1·80	7	6·09	13·33	10·60	62·32	74·34
	Fenny	3·40	1·00	3·20	0·10	0·30	0·70	4·65	7	13·35	22·75	19·49	80·92	75·42
	Harishpore ...	1·20	0·93	.....	1·50	0·94	0·63					?		?
	Ramganj ...	1·15										?		?
Furreedpore	Madaripore ..	.....	.....	.....	.....	.....	0·05	0·11	2	0·16		9·40		38·99
	Furreedpore..	.....	.....	0·73	0·22	1·65	2·85	0·03	5	5·48	9·09	9·32	32·65	38·76
	Goalundo .	.....	.....	.....	.....	0·23	0·31	1·92	3	2·46	5·14	8·73	29·34	36·18
Dacca ...	Munshigunge	0·23	.....	0·04	1·03	0·18	1·11	0·95	6	3·54	8·60	11·46	46·78	47 29
	Dacca ..	0·02	.....	0·07	0·11	1·34	0·61	0·04	6	2·19	8·11	9·47	43·35	40·41
	Naraingunge	.....	.....	.....	1·17	0 26	1·15	0·21	4	2·79	9·48	8·62	50·51	41·46
	Manickgunge	0·10	0·16	... ...	0·07	0·41	1·84	1·42	6	4·00	7·79	9·12	40·02	36·54
	Joydebpore ..	0·55	0·02	0·07	0·10	0·31	0·14	0·10	7	1·29	7·12	?	44·01	?
Hill Tipperah Tipperah ...	Agartola ...	0·17	.....	0·30	...	0·18	0·87	0·12	5	1·64	5·90	9·79	46·00	40 38
	Comilla ...	1·64	1·10	.....	0·24	0·18	0·70	0 81	6	4·67	7·68	13 15	49·14	53·73
	Chandpore ...	... ...	.....	.....	.....	2·10	0·20	1·52	3	3·82	10·12	16·13	44·52	51·69
	Brahmunberia	1·30	.....	0·03	.....	.....	0·20	0·30	4	1·53	3·88	9·30	38·62	40·56
	Ramchandrapore ...	1·02	0·74	.....	0·40	0·58	1·20	0·82	6	4·76	10·80	?	57·79	?
	Nasirnagar ...	.....	.....	.....	.....	0·40						?		?
	Daudkandi ..	0·75	0·04	.....	...	0·10	·2					?		?
	Kasba ...	.....		.....	1·00	.....	1·57	1·95	4	6·02	8·55	?	57·45	?
	Laksham ...	1·50	.....	.....										
Mymensingh ...	Kishoreegunge	1·45	.....	0·27	0·35	0·44	0·37	0·21	6	3·09	8·41	10·11	48·35	47·16
	Atia (*Tangail*)	... ...	...	0·22	.....	.....	0·27	0·67	3	1·16	3·02	8·99	37·42	36·67
	Mymensingh	0·28	0·04	.....	1·34	0·08	0·52	1·74	6	4·00	8·30	9·85	54·66	49·21
	Jamalpore ..	.....	1·88	...	.....	.....	1·39					9·11		40·81
	Netrokona ..	1·01	0·06	0·46	0·49	.....	0·25	0·10	6	2·37	12·36	10·53	69·11	53·67
	Subornakhali	0·80	...	0·95	.....	0·60	.....	1·02				?		?
	Durgapore ...	1·95	2·95	0·90	0·25	0·90	1·10					?		?
	Sherepore Town	0·21	1·12									?		?
	Dewanganj ...	0·43	.....	.....	0·28							?		?
Pubna ...	Pubna ...	.....	0·25	.....	0·81	0·80	0·16	0·35	5	2·37	5·94	8·79	29·55	33·51
	Serajgunge ...	.....	0·06	0·63	0·14	1 53	0·07	0·42	6	2·85	5·15	8·06	36·06	34·39
Bogra ...	Sherepore ...	0·09	.....	0·85	0·45	0·65	0·51	0·61	6	3·76	6·90	8·29	41·68	38·83
	Nowkhilla ...	1·20	0·14	.....	0·23	0·98	.....	1·18	5	3·71	7·42	7·75	40·50	35·80
	Bogra ..	0·03	1·12	0·02	0·08	1·12	1·12	0·96	7	4·45	8·86	7·88	40 52	41 34
	Panchbibi ..	.....	1·00	.....	.....	1·88	.....	0·21	3	3·09	6·95	7·41	47·09	36·17
Rajshahye ...	Beauleah .	.....	0·01	0·11	0·85	0·56	0·44	0·31	6	2·28	5·25	8·82	48·43	33·27
	Nattore ..	.....	0·48	0·13	.....	1·73	0·40	.....	4	2·74	6 87	8·43	53·18	34·13
	Naogaon ..	0·23	.....	0·28	0·42	0·29	0·15	0·34	6	1·71	4·00	6·43	39·77	34·17
	Lalpore ...	0·15	.....	.....	0·22	.....	.....	0·44	3	0·81	4 51	?	29·08	?
	Maude .	0·50	.....	.....	.....	0·32	0·10	0·90	4	1·82		?		?
Maldah ...	Maldah .	0·35	2·00	0·22	0·27	0·77	1·15	2·42	7	7·18	11·52	6·92	36·20	31·93
	Chanchal ...	0·23	1 70	0·13	1·35	0·05	0·85	1·35	7	5·66	11·47	9·61	36·74	37·74
	Gajol ...	0·38	3·25	... ...	1·06	0·68	... ...	0·80	5	12·17	16·10	?	48·03	?
	Sibganj ...	.....	0·72	0·10	0·11	0·21	0·09	0·30	6	2·13	6·33	?	40·18	?
Dinagepore ...	Mohadebpore	0·30	... ...	.....	0·14	0·13	.....	0·81	4	1·38	3·56	9·21	37·47	37 19
	Churamon .	.....	1·76	0·16	2·09	.....	1·56	1·12	5	7·49	12·84	6·96	49·97	33·08
	Raigunge ..	0·44	2·00	0·80	4·35	0·21	.....	1·02	6	9·32	18 92	8 74	57·90	39·15
	Dinagepore .	... ..	3·54	0·36	1 53	0·12	.....	0·10	5	5·61	11 60	9·36	51·57	44·28
	Balooghat	.....	2·52	... ...	0·38	0·30	.....	... ...	3	3·20	8·09	7·06	42·09	35·72
	Thakoorgaon	1·10	0·81	1·90	1 19	.....	.....	1·59	5	6·59	13·45	?	61·53	?
Rungpore ...	Bnaswanigunge (*Gyabanda*)	0·10	0·50	.....	0·15	0·14	·00	0·12	6	4·01	8·86	7·20	53·58	41·84
	Runapore ...	.....	2·55	0·19	1·32	1·35	0·18	.....	6	5·60	8·00	8 61	49·78	51·57
	Kurigram ..	0·45	1·33	0·83	2·25	0·31	0·23	0·16	7	5·56	8·19	6·70	55·71	52·11
	Bagdogra (*Nilphamari*)	1·51	3·15	3·50	1·46	0·25	0·35	0·08	7	10·30	13·57	10·15	66·56	58·75
	Ulipore ...	.....	3·12	.....	2·21	.....	2·00	0·36	4	7·09	13·15	?	51·40	?
Julpigoree ...	Julpigoree ...	1·52	2·35	3·00	1·45	0·98	0·86	3·88	7	13·54	17·87	18·15	103·50	80·29
	Alipore Doar	5·90	2·10	1·91	3·93	.....	3·54	0·92	6	18·30	21·84	?	118·90	?
	Falacotta ...	0·85	0·98	1·19	2·52	0·42	0·98	0·82	7	7·72	8 79	?	66·68	?
	Debigunj ...	1·30	2·53	1·94	3·31	0·71	0·12	.....	6	9·91	14·72	?	70·90	?
Cooch Behar..	*Bhagatpore* (*Nagrakatta*)	2·89	3·53	0·93	1·44	0·95	0·02	2·07	7	11·83	19·61	12·27	112·60	?
	Dinhatta ..	2·88	4·41	1·55	1·40	2·82	0·52	0·16	7	14·04	19·90	14·55	80 77	65·53
	Cooch Behar...	2·70	3·89	1·75	3·04	2·20	1·60	2·10	7	19·28	26·77	15 98	108 47	82·86
	Mekliguntee...	1·11	2·3	1·66	3·65	0·36	0·23	0·28	7	9·02	15·71	16 03	91·51	72·34
	Mainbhanga...	4·12	2·82	2·47	2·10	1·46	0·88	1·13	7	14·98	22·67	32·76	110·78	78·27
	Mathabhanga...	1·53	2·31	3·87	0·35	1·30	3·40	2·41	7	15·23	29·20	17·05	140·14	139·72
	Boxa .	0·45	1·60	2·32	2·23	0·97	0·34	5·70	7	13·01	18·37	18·94	126·89	77·92
Darjeeling Hill.	Siliguri ...	0·06	0·31	0·97	2·20	1·72	0·60	3·22	7	9·10	22·07	14·43	116·47	75·53
	Darjeeling ...	0·48	0·94	0·21	0·98	0·56	0·46	3·91	7	7·53	15·55	?	90·87	58·70
	Kalimpong ..	2·10	1·12	0·40	2·60	2·56	3·67	5·80	7	18·25	30·81	?	149·79	?
	Kurseong ...											11·42	60·79	47·34
BAR Purneah ...	Kissengunge...	1·00	0·43	1·32	0·78	0·22	.....	0·65	6	5·3)	12·91	9·02	52·51	41·74
	Arrareah .	2·25	0·41	0 50	1·68	.....	.....	1·44	5	6·28	11·79	10·10	54 89	38·51
	Purneah .	2·39	0·3)	0·65	0·90	0·70	0·67	0·77	7	6·41	11·73	?	39·69	?
	Goodwara ...	.....	.....	3·70	.....	.....	.....	.....	1	3·70	9·73	?		?
	Balarampore	6·40	3·70	1·30	1·25	0·30	.....	.....				?		?
	Mariari ...	.....	2·90	5·40	.....	.....	1·86	1·36	4	11·52		?	75·09	?
	Kaliaganj ...	0·74	3·90	3·94	2·37	.....	0·05	2·36	6	12·36	10·80	8·39	46·95	30·92
North Bhangul-pore.	Haddapore ...	1·75	0·60	.....	1·06	.....	.....	.....	3	3·41	7·05	8·25	47·80	30·82
	Soopoor ...	4 46	0·26	1·43	1·78	0·45	0·52	0·88	7	9·40	11·79	?		?
	Pratabganj ...	0·71	1·91	1·07		1·00								
Durbhunga ...	Tejpore ...	0·02	0·35	.....	0·05	0·04	0·45	0·27	6	1·18	5·74	7·01	37·19	27·76
	Duronnuga ...	0·03	.....	0·36	0·14	.....	0·95	1·91	5	2·39	6·53	8·30	41·98	29·87
	Madhuboni ...	0·06	...	1 07	0·84	0·68	1·84	4·04	6	8·50	13·73	6·99	52·36	27·93
	Lahere ...	.....	0·50	0·12	.....	0·03	0·05	0·56	5	1 90	2·93	?	37·09	?
	Lahere ...	.....	0 48	.....	0·53	1·30	1·99	0·35	5	4·55	8·68	?	35·14	?
Monufferpore	Sitamarhi).	0·10	0·72	1·66	0·41	1·33	0·20	0·06	7	4·48	7·29	7·97	35·61	28·05
	Monufferpore	.....	.....	0·42	0·08	0·48	0·96	0·34	6	2·28	8·60	7·30	41·32	28·09
	Ihatipore ...	0·50	1·28	0·12	.....	.....	0·22	0·41	3	2·53	6·15	7·51	35·82	27·27
	Pare ...	.....	0·40	2·21	0·80	1·50	0·15	3·50	7	8·56	15·30	?	47·76	?
	Mahua ...	.....	.....	.....	0·69	.....	1·50	0·10	3	2·20	5·49	?	34·88	?
	Sirsar ...	0·80	0·56	.....	.....	.....	.....	.....	2	1·15	2·55	?	32·23	?
	Jagri ...	0·16	... ..	0·53	... ..	1·70	.....	0·90	4	3·29	5·73	?	38·34	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 22nd of August 1890—

Meteorological Division.	District.	Station.	Rainfall. Saturday, 16th August.	Sunday, 17th August.	Monday, 18th August.	Tuesday, 19th August.	Wednesday, 20th August.	Thursday, 21st August.	Friday, 22nd August.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.
North Behar —*concluded.*	Chumparun...	Motihari ...	.....	0·11	0·47	0·63	0·63	.....	... ...	4	1·84	3·86	9·01	46·14
		Bettiah ...	0·26	1·29	1·70	.....	0·66	0·10	0·65	6	4·66	8·48	9·19	45·62
		Bageha ...	.....	1·85	2·85	.....	6·27	0·26	2·70	5	13·93	16·57	?	63·72
		Barkurwa ...	.....	0·25	0·67	1·70	0·24	1·40	0·77	6	5·03	7·72	?	44·09
	Sarun ...	Gopalgunge ...	.....	.....	0·36	0·45	2·07	0·72	1·26	5	4·86	13·32	6·69	39·06
		Sewan ..	1·83	1·38	.....	0·18	0·09	1·02	0·21	6	5·26	11·82	7·37	43·77
		Chuprah ...	0·03	2·45	...	0·40	0·31	0·53	0·05	6	4·07	7·98	7·04	38·73
South Behar	Shahabad	Buxar ..	.....	0·45	0·37	.....	0·04	0·09	2·80	5	3·75	10·73	7·26	36·35
		Dehree ...	.....	1·75	1·30	.....	... ...	0·43	0·10	4	3·58	8·27	8·65	31·52
		Bhabooah ...	.....	0·02	0·18	0·03	0·21	.....	1·88	5	2·12	7·31	9·35	29·02
		Sasseram ...	.....	0·89	0·91	0·06	0·31	0·49	0·03	6	2·69	7·84	9·27	31·61
		Arrah ...	.....	1·40	0·38	0·14	... ..	0·16	0·42	5	2·50	10·33	7·92	53·65
		Mohaniah ..	.....	0·10	.....	1·20	.....	0·20	1·50	4	3·00	6·30	?	26·46
	Gya ..	Aurungabad...	.....	2·38	1·32	0·05	0·02	2·73	1·36	6	7·86	20·05	9·44	44·13
		Gya ...	0·06	3·38	1·88	0·46	0·72	0·23	0·28	7	7·01	16·42	8·11	43·15
		Nowadah ...	2·95	2·54	0·80	.....	0·54	0·21	0 53	6	7·57	11·81	7·90	47·56
		Jehanabad ...	.....	1·95	1·33	0·05	2·33	0·12	1·11	6	6·89	12·18	8·51	45·84
		Arwal ..	0·20	2·50	.....	2·50	0·50	1·20					?	
		Daudnagar ...	3·00	... ..	.....	.....	.....	0·40	0·80	3	3·70	5·95	?	21·95
		Sherghati ..	.....	1·00	0·40	.....	.....	1·10	1 50	4	4·00	10·20	?	26·87
		Rajauli ...	.....	0·30	2·45	.....	.....	... .	.....	2	2·75	11·13	?	37·54
		PakriBarawan		1·20	1·20	.....	.....	.....	0·20	3	2·60	7·90	?	41·38
	Patna ...	Patna ...	.....	1·07	0·12	.....	1·22	1·78	0·35	5	4·54	9·11	7·38	35·79
		Dinapore ...	.....	0·20	0·05	... ...	0·42	1·93	0·10	5	2·70	7·86	7·81	32·19
		Behar ...	... ..	0·25	.....	0·05	0·07	0·41	0·31	5	1·12	6·07	7·68	33·94
		Barrh ...	.....	0·40	.....	0·60	0·70	0·10	0·30	5	2·10	2·26	7·23	27·97
		Bickram ...	.....	0·33	1·53	0·12	0·09	0·12	0·75	6	2·94	9·50	?	45·88
		Hilsa		1·10	.....	0·21	0·81	.....	0·85	4	2·97	7·23	?	37·60
	Monghyr ...	Begoosarai ...	.....	1·19	.....	1·60	.....	... ..	0·42	5	3·21	6·00	7·44	31·60
		Monghyr	.....	0·76	0·25	1·33	0·47	0·42	0·62	6	3·85	7·03	8·89	42·76
		Jamui ...	.....	2·06	1·23	.....	.....	1·27	1 20	4	5·70	8·89	8 78	50·03
		Gogri ...	0·40	1·29	0·47	2·52	.....	... ..	2·32	5	7·00	15·59	?	58·94
		Sheikpura ..	0·30	.....	1·60	.....	.....	0·77	.....	3	2·67	12·55	?	39·38
	South Bhagulpore	Bhagulpore ...	.....	1·26	0 45	2·10	0·17	0·55	0·61	0	5·14	12·55	7·82	43·61
		Banka ..	0·10	1·96	0·03	0·37	.....	... .	... ..	4	2·46	6·80	8·02	31·76
		Kalgong ...	0·50	0·64	0·20	1·75	.....	.....	1·65	5	4·74	8·02	?	45·78
		Bangaon ...											?	
	Sonthal Pergunnahs.	Rajmehal ...	.....	1·95	.....	0·34	0·33	.....	0·15	4	2·77	8·01	6·65	34·07
		Godda ...	0·30	2·50	.....	0·75	.....	0·05	.....	4	3·30	8·06	7·98	39·20
		Pakour ...	0·22	1 32	.....	0·35	0·02	0·02	0·27	6	3·10	10·02	7·83	40·41
		Nya Doomka	1·40	3·08	.....	1·62	.....	0·29	0·61	5	7·00	19·04	10·45	54·09
		Deoghur .	.....	1·32	.....	0·13	... ..	1·41	0·04	4	2·90	6·42	9·10	36·48
		Jamtara ...	.....	0·59	... ..	0·07	0·07	0·25	0 09	5	1·07	8·15	9·37	46·96
		Mohagama ...	2·15	0·19	1·38	1·85	.....	1·25	0·84	6	7·96	12·19	?	38·93
		Nanahat ...	.....	1·05	.....	.....	.....	.....	0·21	2	1·26	4·50	?	22·07
Chutia Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	. ....	0·95	.....	.....	.....	0·24	0·53	3	1·72	8·15	9·29	44·11
		Hazaribagh ...	.....	0·21	0·36	0·72	1·81	0·05	0·17	6	3·32	7·86	10·36	37·78
		Semtagurah											8·87	
		Mahudi Hills											10·07	
		Jhoomra Hills											12·83	
		Barhi ...	.....	.....	1·80	0·11	0·03	0·13	0·48	5	2·55	8·96	?	35·46
		Chatra ...	.... .	0·55	1·05	0·70	.... .	0·67	0·98	5	3·95	9·99	?	35·41
		Karagdeha ...	.....	0·60	.....	0 05	0·28	2·10	2·27	5	5·30	12·31	?	46·95
		Kamphar ...	.....	.....	... ..	3·20	1·40	1·69	0·90	4	7·10	14·15	?	36·21
													10·74	
	Lohardugga ...	Lohardugga ...	.....	.....	3·87	0·35	.....	0·42					10·76	29·69
		Ranchi ...	... ..	.....	... ..	.....	.....	0·54	0·15	2	0·69	5·71	8·15	
		Palamow ...	0·37	0·03	0·55	0·10	0·30	0·50					?	28·30
		Silli ...	.....	.....	.....	.....	.....	1·40	.....	1	1·40	6·50	?	
		Balumat ...											?	
		Hosseinabad...	.....	1·05	0·09	.....	.....	1·40	0·64	4	3·18	10·22	?	27·82
		Garwah ...	1·68	.....	.....	1·95							?	
	Singbhoom .	Chyebassa ...	0·03	0·25	.....	0·07	0·07	.....	... ..	4	0·42	2·97	11·04	24·52
		Chakradharpore.	0·10	0·30	.....	0·25	0·15	0·10	0·12	6	1·02		?	
		Ghatsilla ...	.....	0·15	0·16	1·10		0·24					?	
		Baharagora...	0·31	.....	.....	.....	1·01						?	
	Manbhoom ...	Purulia ...	0·35	0·09	.....	0·61	0·69	0·24	0·06	6	2·03	8·17	10·52	34·99
		Gobindpore ...	.....	0 39	.....	0·04	0·30	1·31	0·57	5	2·61	5·74	9·92	27·99
		Raghunathpore.	.....	.....	.....	.....	1·04	3·05	0·10	3	4·19	14·33	?	48·52
		Barrabhoom	.....	.....	.....	0·03	0·95	0·25	.....	3	1·23	2·62	?	32·81
		Jhalda ...	.....	.....	.....	.....	1·20	0·78	0·90	3	2·88	13·71	?	42·56
		Chas ...	.....	.....	.....	.....	1·10	1·79	0·02	3	2·91	9·81	?	37

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 26th August* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 22ND OF AUGUST 1890.

SETTLED conditions have again prevailed throughout the week, the only notable features of the weather being—the rainfall distribution, which has been the reverse of that of the previous week, viz., scanty in the southern districts and heavy in North Bengal and Behar, and two very shallow depressions which formed, one in the centre of the Bay on the 16th, and the other in the north-west corner on the 19th, both, however, disappearing within a day or two of their first appearance.

Pressure has generally been above the normal and changes very small, but as excess in the west of the Bay was about a tenth of an inch during the latter half of the week, gradients have been steeper than usual, and a moderately strong monsoon current has been steady over the eastern and northern districts of the province. The rainfall in East Bengal has been practically normal, and the rather excessive rain in North Bengal and Behar may be due to the westerly winds blowing in these districts from the 17th to 19th and again on the 22nd. The heaviest rain fell when directions were undergoing change, that is about the 17th, the 20th, and the 22nd, and then pressure was either low or uniform over Bengal, and air motion had probably a larger vertical component than with a normal distribution of pressure. On the 16th there was a widely diffused low-pressure area over the centre of the Bay within which a slight defect obtained, while round the coast there was generally excess of about a twentieth of an inch. The depression extended over part of the Circars and as far east as the Burmah coast, but on the following day, owing to a slow rise of pressure, it had disappeared, a faint cyclonic whirl remaining in South Orissa and the Circars and a ridge of relatively high pressure running east and west over Lower Bengal and the head of the Bay. Squally weather probably occurred during these days in the centre of the Bay, as the sea was rough, first in Burmah and then on the Circars and Orissa coast, and wind velocity rose somewhat at the head of the Bay, but even when strongest it was very little above the average and never worse than a fresh breeze. On the 18th a brisk fall of pressure occurred at Saugor Island and Calcutta, and a slow fall continuing on the following day, a shallow depression appeared in the north-west corner of the Bay with cyclonic winds at a few of the neighbouring stations. It was more diffused on the 20th, but the centre of the wind circulation was still between Saugor Island and False Point, and on the 21st it had practically disappeared, leaving the pressure distribution very uniform over the greater part of the province and steep gradients in the north-east corner of the Bay. Wind velocity again increased at the head of the Bay, but, as before, the monsoon was only of about average strength.

Pressure—Changes have rarely exceeded a twentieth of an inch. A slow rise was almost general during the first two days, followed by a slow fall on the 18th and 19th. On the 20th it again increased moderately except in the north and north-east, where the rise exceeded a twentieth of an inch. This slow upward change continued till the last day of the week, when there was a slow fall. These changes had little influence on the general distribution, which on an average has been slightly above the normal at nearly all stations by amounts varying between two and five-hundredths of an inch, the largest excess being in Orissa and South-West Bengal.

Temperature—Owing to the scanty rainfall and comparatively clear skies in the southern districts, has been above the normal in the south-west of the province, while in Assam, East and North Bengal, and Behar, where heavy rain has been fairly continuous, a considerable defect has been recorded. Excess in Orissa and South-West Bengal is about 1°, and in Chutia Nagpur ·3°, while defect in Assam is 2°, in North Bengal and Behar rather over 1°, and in East Bengal ·4°.

Rainfall.—In the early part of the week practically no rain fell in Orissa and South-West Bengal, and only scattered showers in Chutia Nagpur and East Bengal, but during the last four days more rain was received in these districts, though it became general in East Bengal only. In Behar and North Bengal general heavy rain fell throughout the week, and the mean weekly fall has been largely above the normal. Excess in North Bengal [illegible] ·86, in North Bahar 2·43, and South Behar 1·57 inches. The mean fall in East Bengal is [illegible]ry nearly normal, and is below the normal in Chutia Nagpur by ·6 inch, in Orissa by 1·32 [illegible] and South-West Bengal by 1·79 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 22nd of August 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	91·9	75·6	86·3	79·1	83·7	+1·0	1·55	2·87	—1·32	3·0	4·6	—1·6	6·66	8·75	32·83	31·89
South-West Bengal ...	93·3	76·3	89·2	78·9	84·1	+0·9	1·36	3·15	—1·79	3·5	4·5	—1·0	6·32	9·68	36·86	34·53
East Bengal	90·1	72·0	86·1	77·0	81·6	—0·4	3·70	3·48	+0·22	5·4	5·3	+0·1	9·23	12·01	52·49	51·15
North Bengal	90 5	74·1	86·3	77·7	82·0	—1·4	6·55	2·69	+3·86	5·8	4·2	+1·6	11·20	9·56	56·39	46·89
North Behar	93·2	73·6	87·3	77·9	82·7	—1·1	4·54	2·11	+2·43	5·6	3 5	+2·1	9·27	8·26	45·05	31·18
South Behar	92·4	72·8	87·3	77·6	82·4	—1·2	4·02	2·45	+1·57	5·0	3·7	+1·3	9·02	8·29	39·64	28·67
Chutia Nagpur	85·4*	70·9*	83·1*	72·5*	77·8*	+0·3*	2·04	3·24	—0·60	4·6	4·9	—0·3	8·01	10·23	34·69	32·99
Assam	90·5	75·0	85·9	76·8	81·4	—2·0										

* Chyebassa not included.

Meteorological Office, Bengal; *The 26th August* 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 17th to 23rd August 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
August ...	17th ...	29·710	85·2	91·0	11·7	79·3	86·6	80·5	·960	78·0	76	..
,, ...	18th ...	·679	85·4	92·0	13·2	78·8	84·8	80·5	·985	78·8	82	...
,, ...	19th ...	·665	84 9	90·0	10·2	79·8	84·8	79·5	·938	77·3	78	0·02
,, ...	20th ...	·691	81·9	84·9	6·1	78·8	84·6	81·3	1·025	80·0	86	...
,, ...	21st ...	·745	81·9	85·9	8·1	77·8	83·6	80·0	·977	78·5	85	0·40
,, ...	22nd ...	·741	80·3	82·9	5·3	77·6	78·6	77·5	·931	77·1	95	0·54
,, ...	23rd ...	·714	81·1	86·4	10·6	75·8	81·8	79·5	·980	78·6	90	0·65

	Inches.
The mean 10 A.M. pressure of the seven days	29·706
	°
The mean temperature of the seven days	83·0
The extreme variation of temperature	16·2
The maximum temperature	92·0
	%
The mean 10 A.M. relative humidity of the seven days	85
	Inches.
The total fall of rain from 17th to 23rd August 1890	1·61

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India; *The 25th August* 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 17th to 23rd August 1890.

Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
				Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
	°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
17th	152·7	7·0	29·651	84·3	89·4	11·0	78·4	80·1	0·973	78·4	83	S and S by E ...	89	0·06	Partially cloudy. o, d.
18th	152·7	5·5	·617	84·3	89·8	11·9	77·9	80·8	1·006	79·4	86	WSW and calm ...	26	Nil	Partially cloudy.
19th	148·0	0·6	·614	83·4	86·9	7·7	79·2	80·5	1·003	79·3	88	SSE and calm ...	33	0·04	Chiefly cloudy. o, d.
20th	146·4	0·8	·657	82·4	85·6	7·4	78·2	79·4	0·968	78 2	87	SSE and calm ...	44	0·09	Chiefly cloudy. o, d. ≏.
21st	139 5	1·0	·679	81·9	85·1	8·0	77·1	79·3	·970	78·3	89	SSE and calm ...	61	0·32	Chiefly cloudy o, g, d, p, t.
22nd	115·0	Nil	·661	80·8	81·8	7·2	74·6	78·8	·960	78·0	91	SSE and SSW ...	93	0·89	Cloudy, o, g, d, p.
23rd	125·5	,,	·663	81·3	83·6	6·1	77·5	77·7	·903	76·1	85	SSW and calm ...	94	0·01	Chiefly cloudy. o, d.

	Inches.
The mean pressure of the seven days	29·649
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·592
	Hours.
The total number of hours of bright sunshine	14·9
The maximum possible number of hours of sunshine	89·5
	°
The mean temperature of the seven days	82 6
The average temperature of the corresponding period for 24 years, S.-G.'s Office	83·1
The extreme variation of temperature	15·2
The maximum temperature	89 8
	Miles.
The highest velocity of the wind in one hour	9
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	87
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	87
	Inches.
The total fall of rain from 17th to 23rd August 1890	1·41
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	3·39
The total fall from 1st January to 23rd August 1890	38·00
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	45·68

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the mometers are verified, and the readings have been corrected to a standard constructed and verified at the y Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet ve the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly he Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; p, passing temporary showers; t, thunder; ≏ dew.

J. H. Gilliland,

For Meteorological Reporter to the Govt. of India.

Teorological Office, Govt. of India;

Calcutta, the 25th August 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 9th August 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 9th August 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 17·4 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·5 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1887, *vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	25·7	21·1	16·4	20·8	20·3	20·9	17·4

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 19th July 1890.	26th July 1890.	2nd August 1890.	9th August 1890.	Towns.	Weeks ending— 19th July 1890.	26th July 1890.	2nd August 1890.	9th August 1890.
Burdwan	30·5	12·2	13·7	13·7	Naraingunj	16·6	29·0	24·8	16·6
Midnapore	29·4	7·7	15·5	13·9	Chittagong	4·7	14·1	4·7	4·7
Hughli and Chinsurah	32·8	23·0	14·8	10·4	Comillah	7·7	15·4	15·4	11·5
Serampore	31·4	23·6	27·5	23·6	Patna City	11·4	12·7	14·9	13·3
Utterpara	28·3	18·9	18·9	18·9	Gya	26·0	33·5	17·8	21·9
Howrah	14·3	15·5	17·8	14·3	Arrah	17·9	19·1	13·2	20·8
Bali	3·5	14·0	10·5	7·0	Mozufferpore	15·8	13·4	14·6	17·0
Krishnagar	15·1	11·4	5·7	11·4	Durbhanga	18·9	27·5	19·7	29·9
Ranaghat	12·0	12·0	6·0	24·0	Chupra	20·1	11·1	6·0	2·0
Santipore	19·3	10·5	14·0	17·5	Bhagulpore	25·3	16·1	18·1	23·6
Jessore	18·4	6·1	18·4	6·1	Monghyr	33·4	41·6	23·5	38·9
Rampore Beauleah	23·6	18·4	31·5	15·8	Purneah	6·9	20·8	10·4	13·9
Darjiling	22·2	22·2	7·4	37·0	Poori	10·5	18·9	6·3	12·6
Dacca	15·6	9·7	11·0	14·9	Total ...	19·1	18·2	15·3	17·4

It will be seen that last week the highest birth-rate was returned from Monghyr (38·9), and the lowest from Chupra (2·).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23·3 per 1,000 of the population. The rate of the week is 8·3 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	48·0	28·7	37·0	25·4	29·1	31·6	23·3

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 19th July 1890.	26th July 1890.	2nd August 1890.	9th August 1890.	Towns.	Weeks ending— 19th July 1890.	26th July 1890.	2nd August 1890.	9th August 1890.
Burdwan	19·8	27·5	19·8	13·7	Naraingunj	16·6	16·6	16·6	19·4
Midnapore	35·6	17·0	7·7	15·5	Chittagong	18·8	18·8	11·7	9·4
Hughli and Chinsurah	19·7	24·6	26·3	16·1	Comillah	26·9	38·5	38·9	7·7
Serampore	45·1	39·3	51·0	51·0	Patna City	14·4	18·8	13·0	20·1
Utterpara	56·6	47·2	37·7	9·4	Gya	38·1	37·6	44·4	36·7
Howrah	15·0	15·7	10·9	30·0	Arrah	23·9	39·5	9·4	20·8
Bali	7·9	21·1	14·0	10·5	Mozufferpore	29·2	33·8	15·8	23·1
Krishnagar	3·8	11·4	5·7	11·4	Durbhanga	33·3	33·3	16·6	34·6
Ranaghat	24·0	12·0	24·0	24·0	Chupra	16·1	13·1	11·1	2·0
Santipore	17·5	15·8	17·5	19·3	Bhagulpore	16·0	22·6	14·5	13·7
Jessore	42·3	12·3	12·3	12·3	Monghyr	33·3	33·3	16·4	33·3
Rampore Beauleah	5·3	23·6	15·8	21·0	Purneah	10·4	10·4	13·9	24·2
Darjiling	37·0	22·2	33·3	66·7	Poori	44·1	35·7	35·6	22·1
Dacca	23·4	15·6	27·2	25·3	Total ...	23·0	23·1	19·2	21·3

It will be seen that last week the highest mortality occurred in the town of Darjiling (66·7), and the lowest in Chupra (3·).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Gya	16·4	Darjiling	44·5	Serampore	17·6
Arrah	9·5	Serampore	23·6	Gya	14·3
Santipore	8·7	Gya	22·6	Poori	10·5
Durbhanga	7·9				
Mozufferpore	4·9				
onghyr	3·6				
Patna City	2·9				

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·6 from cholera, against 2·1 per 1,000 in the preceding week; ·1 from small-pox, against ·04; 9·6 from fever, against 7·4; 3·5 from bowel-complaints, against 2·4; ·4 from injury, against ·8; and 6·1 from other causes, against 6·4 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	24·3	Christians ...	7·5	Under 1 year ...	194 6
Females	22·1	Hindus ...	25·5	1 and under 5 years ...	30·8
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	110	Mahomedans ...	18 2	5 „ 10 „ ...	9·9
				10 „ 15 „ ...	15·1
				15 „ 20 „ ...	15·4
				20 „ 30 „ ...	9 9
				30 „ 40 „ ...	15·7
				40 „ 50 „ ...	19 9
				50 „ 60 „ ...	23·5
				60 years and upwards ...	60·1

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 25th August 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 9th August 1890.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.															Sex.				
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.							Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
												Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	2	7	9	3·0	10·7	13·7	28	...	...	4	2	1	2	9	...	...	6·1	3·0	1·5	3·0	13·7	19·8	6	3	17·3	9·7	178
Midnapore ...	Midnapore ..	16,927	16,633	33,560	5	4	9	7·7	6·2	13·9	125	...	1	...	3	...	6	10	...	1·5	...	4·6	...	9·3	15·5	7·7	3	7	9·2	21·9	42
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	4	6	10	6·6	9·8	16·4	66	.	1	4	3	...	3	11	...	1·6	6·6	4·9	...	4·9	18·1	26·3	6	5	19·7	16·4	120
Serampore ...	Serampore ...	13,559	12,937	26,496	8	4	12	15·7	7·9	23·6	200	1	...	12	3	1	9	26	1·9	...	23·6	5·9	1·9	17·6	51·0	51·0	20	6	76·7	24·1	318
	Uttarpara	3,046	2,464	5,510	...	2	2	...	18·9	18·9	No male birth.	...	...	...	...	...	1	1	...	...	...	...	...	9·4	9·4	37·7	...	1	...	21·1	No male death.
Howrah ..	Howrah	53,153	37,660	90,813	12	13	25	6·9	7·4	14·3	92	3	...	16	8	...	8	35	1·7	...	9·1	4·6	...	4·6	20·0	10·9	21	14	20·5	19·3	106
	Bali	7,836	6,979	14,815	1	1	2	3·5	3·5	7·0	100	...	...	2	...	...	1	3	...	...	7·0	...	...	3·5	10·5	14·0	2	1	13·3	7·5	177
Nuddea ..	Krishnagar ...	13,263	14,214	27,477	2	4	6	3·8	7·6	11·4	50	...	...	1	2	...	3	6	...	...	1·9	3·8	...	5·7	11·4	5·7	3	3	11·8	11·0	107
	Ranaghat	4,626	4,655	8,693	2	2	4	12·0	12·0	24·0	100	1	...	1	1	...	1	4	6·0	...	6·0	6·0	...	6·0	24·0	24·0	2	2	25·8	22·3	115
	Santipore	13,766	15,979	29,687	5	5	10	8·7	8·7	17·5	100	6	...	3	2	..	1	11	8·7	...	5·3	3·5	...	1·7	19·3	17·5	4	7	15·2	22·8	66
Jessore ...	Jessore	4,830	3,665	8,495	1	...	1	6·1	...	6·1	No female birth.	...	...	1	1	...	...	2	...	...	6·1	6·1	...	...	12·2	12·2	1	1	10·8	14·2	76
Raishahye ...	Rampore Beauleah	10,766	9,025	19,791	3	3	6	7·9	7·9	15·8	100	.	...	5	1	1	1	8	...	...	13·1	2·6	2·6	2·6	21·0	15·8	1	7	4·8	40·3	11
Darjiling ...	Darjiling	4,579	2,439	7,018	2	3	5	14·8	22·2	37·0	66	...	...	6	3	...	...	9	...	...	44·5	22·2	...	...	66·7	88·9	5	4	56·8	55·3	66
Dacca ...	Dacca	42,782	37,379	80,161	16	7	23	10·4	4·5	14·9	228	1	1	19	8	..	10	39	·6	·6	12·3	5·2	...	6·5	25·3	27·2	27	12	32·8	16·7	196
	Narainganj ...	7,605	4,956	12,561	3	1	4	12·4	4·1	16·6	300	...	...	1	...	...	2	3	...	...	4·1	...	...	8·3	12·4	16·6	2	1	13·7	10·5	130
Chittagong ...	Chittagong ...	13,340	8,790	22,130	1	1	2	2·3	2·3	4·7	100	...	...	3	1	...	...	4	...	...	7·0	2·3	...	...	9·4	11·7	3	1	11·7	5·9	198
Tipperah ...	Comillah	8,153	5,353	13,506	2	1	3	7·7	3·8	11·5	200	...	..	2	...	...	...	2	. .	...	7·7	...	...	...	7·7	26·9	1	1	6·4	9·7	66
Patna	Patna City ...	78,762	81,475	160,237	22	19	41	7·1	6·2	13·3	116	9	...	25	11	...	17	62	2·9	...	8·1	3·6	...	5·5	20·1	13·0	33	29	21·8	18·5	117
Gya	Gya	38,290	37,831	76,121	15	17	32	10·2	11·6	21·9	88	24	...	33	4	1	21	83	16·4	...	22·5	2·7	·7	14·3	56·7	44·4	38	45	51·6	61·9	83
Shahabad ...	Arrah	20,960	22,505	43,465	10	7	17	11·9	8·4	20·3	143	8	...	7	...	...	2	17	9·5	...	8·4	...	...	2·4	20·3	8·4	11	6	27·3	13·9	196
Mozufferpore .	Mozufferpore ...	23,084	19,658	42,742	5	9	14	6·1	10·9	17·0	55	4	...	6	4	1	4	19	4·9	...	7·2	4·9	1·2	4·9	23·1	15·8	10	9	22·5	23·8	94
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	24	14	38	18·9	11·0	29·9	171	10	...	18	5	...	11	44	7·9	...	14·2	3·9	...	8·6	34·6	16·5	25	19	38·5	30·6	125
Sarun	Chupra	25,116	26,554	51,670	1	1	2	1·0	1·0	2·0	100	3	...	...	...	...	...	3	3·0	...	...	...	...	...	3·0	11·1	1	2	2·1	3·9	54
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	20	6	26	18·1	5·4	23·6	333	...	.	8	...	...	6	14	...	...	7·2	...	...	5·4	12·7	14·5	6	8	10·5	15·0	70
Monghyr ..	Monghyr	28,154	29,366	57,520	18	25	43	16·3	22·6	38·9	72	4	...	13	4	2	9	32	3·6	...	11·3	3·6	1·8	8·1	28·9	15·4	17	15	31·4	26·6	118
Purneah ...	Purneah	8,463	6,553	15,016	2	2	4	6·9	6·9	13·9	100	...	...	3	2	1	1	7	...	...	10·4	6·9	3·4	3·4	24·2	13·9	5	2	30·7	15·9	193
Puri	Puri	13,247	11,537	24,784	2	4	6	4·2	8·4	12·6	50	...	...	2	4	...	5	11	...	...	4·2	8·4	...	10·5	23·1	33·6	5	6	19·6	27·0	72

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14				
		Class.									
		Deaths among—					Ratio per 1,000 of Population per annum.				
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	...	7	2	...	...	...	15·4	10·1	...	...
Midnapore	Midnapore	...	9	1	...	...	...	18·0	7·2	...	...
Hughli	Hughli and Chinsurah	...	9	2	...	...	...	18·5	16·9	...	...
Serampore	Serampore	...	25	1	...	...	...	51·5	55·4	...	...
	Utterpara	...	1	...	...	...	...	9·8	...	...	...
Howrah	Howrah	...	24	11	...	...	...	18·3	27·9	...	...
	Bali	...	2	1	...	...	...	7·8	39·7	...	...
Nuddea	Krishnagar	...	4	2	...	...	...	11·2	12·6	...	...
	Ranaghat	...	4	...	...	...	...	28·4	...	...	...
	Santipore	...	7	4	...	...	...	17·6	23·3	...	...
Jessore	Jessore	...	...	2	...	...	...	...	27·2	...	...
Rajshahye	Rampore Beauleah	...	5	3	...	...	...	26·2	15·9	...	...
Darjiling	Darjiling	...	9	...	...	...	...	101·9	...	...	...
Dacca	Dacca	...	24	15	...	...	...	31·0	19·8	...	...
	Naraingunj	...	1	2	...	...	...	8·2	16·9	...	...
Chittagong	Chittagong	1	1	2	...	...	65·3	9·0	6·8	...	...
Tipperah	Comillah	...	1	1	...	...	...	8·7	7·0	...	...
Patna	Patna City	...	51	11	...	...	...	22·3	14·0	...	...
Gya	Gya	...	71	12	...	...	...	61·5	38·8	...	...
Shahabad	Arrah	...	12	5	...	...	...	20·1	21·0	...	...
Mozufferpore	Mozufferpore	...	14	5	...	...	...	24·2	20·8	...	...
Durbhanga	Durbhanga	...	37	7	...	...	...	39·7	20·7	...	...
Saran	Chupra	...	3	...	...	...	...	3·9	...	...	...
Bhagulpore	Bhagulpore	...	10	4	...	...	...	13·1	12·1	...	...
Monghyr	Monghyr	...	25	7	...	...	...	29·1	29·0	...	...
Purneah	Purneah	...	4	3	...	...	...	22·7	27·6	...	...
Pooree	Pooree	...	11	...	...	...	...	23·3	...	...	...
	Total	1	371	103	...	...	7·3	25·5	18·2	...	...

DISTRICTS.	NAMES OF MUNICIPALITIES.	Age.																					
		Deaths.										Ratio per 1,000 of Population per annum.											
		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	...	...	...	...	...	2	1	3	3	...	...	...	...	...	...	15·1	11·8	63·5	105·3
Midnapore	Midnapore	2	...	1	..	...	1	1	2	...	3	140·0	...	13·9	...	...	7·1	9·4	27·9	...	85·2
Hughli	Hughli and Chinsurah	...	2	...	...	...	...	...	...	2	7	...	46·9	...	...	...	...	...	...	40·0	175·5
Serampore	Serampore	7	4	...	1	1	1	...	5	1	6	512·7	115·2	...	23·4	23·8	9·7	...	77·1	27·2	224·3
	Utterpara	1	..	...	...	...	...	...	...	...	...	323·0	...	...	...	...	..	...	...	...	...
Howrah	Howrah	5	4	1	2	1	5	5	5	2	5	136·0	37·5	8·3	15·8	7·1	11·5	13·5	22·1	16·9	69·3
	Bali	...	...	...	1	...	1	...	1	...	...	...	...	...	43·8	...	15·5	...	26·9	...	...
Nuddea	Krishnagar	2	...	...	...	...	...	1	3	1	...	209·7	...	...	...	...	...	12·1	31·9	24·7	...
	Ranaghat	1	...	...	...	...	...	2	...	1	...	251·2	...	...	...	...	...	83·4	...	71·8	...
	Santipore	1	1	...	...	3	...	...	1	2	3	61·3	17·9	...	...	70·1	...	...	14·8	45·2	79·4
Jessore	Jessore	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	34·0	...	42·4	...
Rajshahye	Rampore Beauleah	1	1	1	1	...	...	1	2	...	1	128·1	36·7	25·0	28·9	...	...	14·4	42·4	...	54·0
Darjiling	Darjiling	...	2	...	...	3	2	1	...	...	1	...	161·7	...	...	243·8	52·0	36·3	...	...	307·7
Dacca	Dacca	8	4	...	1	2	3	3	5	3	5	219·2	28·2	...	6·5	14·2	10·2	35·7	31·0	32·9	46·7
	Naraingunj	1	...	...	...	...	...	...	...	...	2	196·4	...	...	...	...	...	...	...	...	159·5
Chittagong	Chittagong	1	...	...	...	...	...	1	1	...	1	92·4	...	...	...	...	...	15·6	23·0	...	65·8
Tipperah	Comillah	...	1	1	...	...	..	1	1	...	1	...	39·8	31·9	...	...	...	...	...	...	...
Patna	Patna City	14	9	3	6	1	6	7	6	1	9	168·9	32·1	9·3	21·7	4·7	10·8	15·7	16·6	3·7	33·9
Gya	Gya	16	9	6	4	3	10	6	8	8	13	464·8	73·7	44·6	30·9	29·8	25·3	24·5	42·6	63·3	131·3
Shahabad	Arrah	2	1	2	1	1	6	1	2	...	1	80·7	11·7	20·3	11·8	16·2	39·7	8·1	22·2	...	18·0
Mozufferpore	Mozufferpore	3	4	...	...	4	...	2	1	3	2	163·4	51·5	...	...	65·6	...	11·9	10·4	48·0	42·7
Durbhanga	Durbhanga	10	6	4	8	2	...	6	1	2	5	334·0	41·0	26·6	71·9	25·9	...	25·9	7·0	23·7	81·4
Saran	Chupra	..	...	...	...	..	2	1	...	...	...	...	...	...	...	...	11·3	6·7	...	...	...
Bhagulpore	Bhagulpore	5	1	1	1	..	2	1	...	2	1	217·8	9·6	8·9	8·3	...	9·5	5·6	...	24·4	14·4
Monghyr	Monghyr	9	5	...	1	3	1	4	3	1	5	315·2	41·8	...	9·1	41·3	5·0	23·3	24·5	13·1	72·5
Purneah	Purneah	1	...	...	1	...	...	1	1	2	1	183·7	...	...	43·5	...	...	18·2	25·0	111·0	64·4
Pooree	Pooree	5	1	1	...	..	...	1	1	...	2	858·1	28·9	23·2	...	...	...	12·8	15·6	...	57·6
	Total	95	55	21	28	24	40	53	45	35	76	194·6	30·8	9·9	15·1	15·4	9·9	15·7	19·9	23·5	60·1

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 23rd August 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 23rd August 1890.			Week ending Saturday, the 24th August 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	350	76,125	1,223	191	46,575	704
Jute	79	20,675	418	44	20,850	358
Firewood	118	51,625	796	104	56,700	889
Other articles	732	1,86,140	2,528	712	1,59,675	2,218
Total ...	1,279	3,34,565	4,965	1,051	2,83,800	4,169

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of June 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	502	.....	1,483	5	1,159	1,488	.....	329
Cotton, raw	.....	3	.....	19	3	19	.....	16
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	255	.....	249	3	255	252	3	.....
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	8	40	16	84	57	100	.....	43
5.—Others	34	49	24	546	83	570	.....	487
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	.....	21	.....	27	21	27	.....	6
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrewed	.....	50	.....	33	50	33	17	.....
2.—Gunny-bags and cloth	12	30	13	8	48	21	27	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	43	5	71	12	48	83	.....	35
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	93	.....	92	.....	95	92	3	.....
3.—Others	216	.....	97	.....	216	97	119	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly	112	324	90	672	436	762	.....	326
4.—Niger								
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	.....	645	1	123	645	124	521	.....
3.—Others	17	25	47	81	42	128	.....	86
Railway plant and rolling-stock	.....	.....	81	66	84	97	.....	13
Salt	390	.....	301	.....	390	301	89	.....
Sugar—								
1.—Drained	44	256	6	1,022	300	1,028	.....	728
2.—Undrained	29	35	22	40	64	62	2	.....
Tobacco								
All other articles of merchandise—								
1.—Unmanufactured	1,031	785	1,479	256	1,816	1,737	79	.....
2.—Manufactured								
Total ...	2,788	2,283	4,022	2,999	5,812	7,021	860	2,069

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of June 1890.

	Tons.
INCREASES.	
Betel-nuts	521
From the Bengal Central Flotilla Company.	
DECREASES.	
Coal	329
Due presumably to sufficiency of stock for railway and flotilla consumption	
Oilseeds	326
Khoolna, Nawapara, and Jhikargacha show the principal decreases, which are said to be due to poor crops in the neighbourhood.	
Sugar	728
Jhikargacha shows the largest falling off. The decrease generally is due to the successful competition of raw sugar from Java.	

F. P. QUINLAN,
Examiner of Accounts.

CALCUTTA, *the 23rd August* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 16th August 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
for the week ...	227,891	2,31,732 3 0	18,72,033 30	4,17,467 2 0	17,068 6 8	6,66,267 11 8	65,421	76,958	142,379
of railway	.....	151 14 6	.....	273 10 7	11 3 0	436 12 1	.....	.....	.....
6 weeks of half-	1,328,000	13,11,950 3 0	1,03,14,937 30	22,56,189 14 0	1,07,421 9 3	36,75,561 10 3	372,692	443,009½	815,701½
l for 7 weeks ...	1,555,891	15,43,682 6 0	1,21,86,971 20	26,73,657 0 0	1,24,489 15 11	43,41,829 5 11	438,113	519,967½	958,080½
MPARISON.									
orresponding week s year	232,062½	2,16,394 9 11	19,74,374 30	3,95,196 13 0	15,110 1 3	6,26,701 8 2	65,310	79,093	144,403
railway correspond- of previous year ...	.....	141 13 7	.....	259 1 0	9 14 6	410 13 1	.....	.....	.....
responding date of year	1,701,322	16,38,476 7 6	1,52,72,085 20	31,96,944 0 0	1,19,207 10 1	49,54,088 1 7	455,006	596,083	1,051,089

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

FOR WEEK ENDING AUGUST 1889.		RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
6,26,702	411	1,525½	6,66,268	437	1,525½	1,69,81,439	557	1,525½	1,54,60,760	507	.....	15,20,67

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 16*th August* 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles	
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
Total traffic for the week ...	9,535	4,784 1 0	27,016 0	1,869 3 0	42 7 0	6,695 11 0	967	629
Or per mile of railway	167	83 10 2	488 0	32 10 10	0 11 11	117 0 11	.....	.....
For previous 6 weeks of half-year	57,918	28,798 6 0	2,06,500 20	12,739 3 0	233 9 0	41,771 1 0	5,671	3,589
Total for 7 weeks ...	67,453	33,582 7 0	2,34,515 20	14,608 5 0	276 0 0	48,466 12 0	6,638	4,218
Comparison.								
Total for corresponding week of previous year	8,926	4,501 15 3	52,921 10	2,198 3 0	40 10 0	6,740 12 3	1,149	626
Per mile of railway corresponding week of previous year ...	156	78 11 3	925 10	38 6 11	0 11 4	117 13 6	.....	.....
Total to corresponding date of previous year	78,630	40,705 14 0	3,74,990 30	17,060 3 0	313 15 9	58,080 0 9	6,930	4,873

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Work Department Circular No. XXI, Railway, dated 23*rd July* 1883.

Receipts for week ending 17th August 1889.			Receipts for week ending 16th August 1890.			Total receipts from 1st April 1889 to 17th August 1889.			Total receipts from 1st April 1890 to 16th August 1890.			Total increase in 1890.	T decr 18
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
57½	6,741	118	57½	6,606	117	57½	1,72,077	151	57½	1,75,210	153	2,233	

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 16*th August* 1890, *on* 22¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles	
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
Total traffic for the week ...	16,466	3,963 15 0	5,170 30	175 11 0	7 6 0	4,147 0 0	923	45
Or per mile of railway	.....	178 2 6	.....	7 14 4	0 5 3	186 6 1	.....	.....
For previous 6 weeks of half-year	106,389	26,154 12 0	25,433 30	885 11 0	42 15 0	27,083 6 0	5,224	298
Total for 7 weeks ...	122,855	30,118 11 0	30,613 20	1,061 6 0	50 5 0	31,230 6 0	6,147	343
Comparison.								
Total for corresponding week of previous year	16,063½	3,723 2 7	4,012 10	141 0 0	5 1 0	3,869 3 7	927	41
Per mile of railway corresponding week of previous year ...	.....	167 5 4	.....	6 5 5	0 3 7	173 14 4	.....	.....
Total to corresponding date of previous year	129,682	30,887 14 6	33,125 10	1,117 5 0	28 0 0	32,033 3 6	6,479	253

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Work Department Circular No. XXI, Railway, dated 23*rd July* 1883.

Receipts for week ending 17th August 1889.			Receipts for week ending 16th August 1890.			Total receipts from 1st April 1889 to 17th August 1889.			Total receipts from 1st April 1890 to 16th August 1890.			Total increase in 1890.	T decr 1
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
22¼	3,869	174	22¼	4,147	186	22¼	1,14,671	258	22¼	1,16,078	261	1,407	

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 9th August 1890, on 767 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
or the week	183,370	59,940 0 0	5,41,330 0	1,37,390 0 0	10,670 0 0	2,08,000 0 0	22,876	29,736	[illegible]
f railway	239	78 0 0	700 0	179 0 0	*2 0 0	259 0 0	.....	.....	.....
5 weeks of half-	686,900	2,88,710 0 0	22,77,380 0	4,86,800 0 0	73,510 0 0	8,49,020 0 0	107,646	148,695	256,341
al for 6 weeks	870,270	3,48,050 0 0	28,18,710 0	6,24,190 0 0	84,180 0 0	10,57,020 0 0	130,522	178,431	308,953
PARISON.									
rresponding week year	163,722	55,052 0 0	6,86,301 0	1,58,478 0 0	15,711 0 0	2,20,241 0 0	22,301	31,415	53,716
ailway correspond- f previous year .. esponding date of ar	219	74 0 0	919 0	212 0 0	*6 0 0	292 0 0	.....	.....	.....
	856,739	8,38,790 0 0	29,05,989 0	5,95,037 0 0	83,477 0 0	10,17,304 0 0	135,224	152,705	287,989

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

R WEEK ENDING UGUST 1889.		Receipts for week ending 9th August 1890.			Total receipts from 1st April 1889 to 10th August 1889.			Total receipts from 1st April 1890 to 9th August 1890.			Total increase in 1890.	Total decrease in 1890.
ceipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
2,29,241	307	767	2,08,000	271	696	31,52,746	2·8	761	*33,75,635	234	2,22,889	.....

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
for the week... ...	33,630	9,090 0 0	42,280 0	3,350 0 0	590 0 0	13,030 0 0	3,604	2,060	5,664
f railway	289	73 0 0	338 0	27 0 0	4 0 0	104 0 0	.....	.....	.....
a 5 weeks of half-	132,082	45,590 0 0	1,71,850 0	10,300 0 0	710 0 0	56,600 0 0	17,034	9,706	26,740
al for 6 weeks ...	165,712	54,680 0 0	2,14,188 0	13,650 0 0	1,300 0 0	69,630 0 0	20,638	11,766	32,404
MPARISON.									
rresponding week of year	33,412	9,066 0 0	57,609 0	5,504 0 0	1,002 0 0	15,572 0 0	3,537	2,655	6,192
railway correspond- of previous year .	267	73 0 0	461 0	44 0 0	8 0 0	125 0 0	.....	.....	.....
rresponding date of ar	172,143	55,109 0 0	2,38,905 0	16,994 0 0	1,324 0 0	73,418 0 0	20,591	12,905	33,496

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

OR WEEK ENDING AUGUST 1889.		Receipts for week ending 9th August 1890.			Total receipts from 1st April 1889 to 10th August 1889.			Total receipts from 1st April 1890 to 9th August 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
15,872	135	125	13,030	104	125	2,53,265	107	125	*2,35,640	99	.....	17,625

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Tra	
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Me d
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
Total traffic for the week	16,480	5,350 0 0	13,910 0	1,050 0 0	130 0 0	6,530 0 0	2,414	
Or per mile of railway	192	62 0 0	162 0	12 0 0	2 0 0	76 0 0	.....	
For previous 5 weeks of half-year	63,430	21,110 0 0	56,800 0	5,340 0 0	610 0 0	27,060 0 0	11,414	
Total for 6 weeks ...	79,910	26,460 0 0	70,710 0	6,390 0 0	740 0 0	33,590 0 0	13,828	
Comparison.								
Total for corresponding week of previous year	12,105	3,827 0 0	9,856 0	748 0 0	153 0 0	4,728 0 0	2,473	
Per mile of railway corresponding perio of previous year	141	44 0 0	115 0	9 0 0	2 0 0	55 0 0	.....	
Total to corresponding date of previous year	80,518	23,968 0 0	89,302 0	4,451 0 0	1,435 0 0	29,844 0 0	14,520	

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 10th August 1889.			Receipts for week ending 9th August 1890.			Total receipts from 1st April 1889 to 10th August 1889.			Total receipts from 1st April 1890 to 9th August 1890.			Total increase in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.
86	4,728	55	86	6,530	76	86	1,04,123	64	86	*1,15,332	71	11,209

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Trai	
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merc dis
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
Total traffic for the week ...	3,440	1,210 0 0	7,480 0	380 0 0	10 0 0	1,600 0 0	586	
Or per mile of railway	126	44 0 0	274 0	14 0 0	1 0 0	59 0 0	.....	....
For previous 5 weeks of half-year	16,600	5,950 0 0	60,580 0	3,290 0 0	60 0 0	9,300 0 0	2,606	1,
Total fo. 6 weeks ...	20,040	7,160 0 0	68,060 0	3,670 0 0	70 0 0	10,900 0 0	3,192	2,
Comparison.								
Total for corresponding week of previous year	3,687	1,364 0 0	4,438 0	276 0 0	24 0 0	1,664 0 0	586	
Per mile of railway correspond-ing period of previous year ...	135	50 0 0	163 0	10 0 0	1 0 0	61 0 0	.....	.....
Total to corresponding date of previous year	17,515	6,682 0 0	43,078 0	2,677 0 0	180 0 0	9,739 0 0	3,366	1,

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 10th August 1889.			Receipts for week ending 9th August 1890.			Total receipts from 1st April 1889 to 10th August 1889.			Total receipts from 1st April 1890 to 9th August 1890.			Total increase in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.
27¼	1,664	61	27¼	1,600	59	27¼	35,318	68	27¼	*36,908	71	1,590

* Audited up to week ending 21st June 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

(COMBINED SYSTEM.)

Approximate Return of Traffic for the week ending 9th August 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week on 691 miles open	74,123	25,084	2,51,852	21,926	5,169	52,179	11,708	10,698	22,406
Or per mile of railway	107	36	364	32	2	76*	.....	.....	.....
For previous 4 weeks of half-year	363,392	1,39,438	12,13,518	1,33,905	29,821	3,03,146	55,365	55,852	1,11,217
Total for 5 weeks ...	437,515	1,64,522	14,65,370	1,55,831	34,990	3,55,343	67,073	66,550	1,33,623
COMPARISON.									
(Audited figures.)									
Total for corresponding week of previous year on 649 miles open	(a) 80,561	27,947	3,54,818	30,889	8,694	76,530	9,917	15,278	25,195
Per mile of corresponding week of previous year	124	43	547	62	3	108*	.....	.....	.....
Total to corresponding date of previous year	467,201	1,62,478	18,14,304	2,18,064	50,315	4,30,857	62,449	81,976	1,44,425

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts.

Receipts for week ending 10th August 1889.			Receipts for week ending 9th August 1890.			Total receipts from 1st April 1889 to 10th August 1889.			Total receipts from 1st April 1890 to 9th August 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
649	(a) 76,530	118	691	52,179	76	949	(a) 17,46,711	450	731·06	16,76,128	127	.....	70,583

(a) The Earnings of Tirhoot and Bengal & North-Western Railways of the corresponding week of previous year have been shown here.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 26th July 1890...	5,521
Corresponding period of 1889	11,323
Decrease	5,802
	Rs. A. P.
Receipts per mile for week ending 26th July 1890	108 4 1
Corresponding period of 1889	222 0 6
Decrease	113 12 5
Receipts from 1st to 26th July 1890	27,894
Corresponding period of 1889	33,144
Decrease	5,250

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 2nd August 1890	2,748
Corresponding period of 1889	5,786
Decrease	3,038
	Rs. A. P.
Receipts per mile for week ending 2nd August 1890	53 14 1
Corresponding period of 1889	113 7 5
Decrease	59 9 4
Receipts from 1st July to 2nd August 1890	30,642
Corresponding period of 1889	38,931
Decrease	8,289

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WEDNESDAY, SEPTEMBER 3, 1890.

OFFICIAL PAPERS.

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RESOLUTION ON THE TRIENNIAL REPORT ON THE ADMINISTRATION OF THE REGISTRATION DEPARTMENT FOR THE YEARS 1887-88, 1888-89, AND 1889-90.

Calcutta, the 25th August 1890.

READ—

The triennial report on the administration of the Registration Department for the years 1887-88, 1888-89, and 1889-90.

Read also—

The statistical returns for the years 1887-88 and 1888-89, with the remarks thereon.

Read also—

The Report for the year 1886-87 and the Resolution thereon.

The Inspector-General of Registration submits the first triennial report in compliance with the instructions of the Government of India contained in Home Department Resolution No. 28—1579-95, dated the 15th July 1887. The Lieutenant-Governor hopes that in future years it may be possible to obtain correct figures and reports from the district offices by the 1st May, so that the Inspector-General may be able to submit his report for the whole province on an earlier date. On the present occasion there has been no delay in Mr. Holmwood's office. The report is full and interesting and at the same time sufficiently concise, and it is illustrated by a useful and instructive map.

2. The following table, which is taken from the body of the report, is of general interest:—

Year.	Number of registrations.				Total receipts.	Total expenditure.	Surplus.	Number of registration offices.
	Affecting immoveable property.		Other registrations.	Total.				
	Compulsory.	Optional.						
					Rs.	Rs.	Rs.	
1884-85	374,730	193,811	119,839	688,380	10,74,501	5,54,110	5,20,391	290
1885-86	386,032	211,384*	126,485	723,901	10,88,177	5,68,365	5,19,812	292
1886-87	376,898	194,518*	127,123	698,539	10,31,485	5,64,274	4,67,211	300
Total ...	1,137,660	599,713	373,447	2,110,820	31,94,163	16,86,749	15,07,414	294 average.
1887-88	495,590	95,404*	126,930	717,993	10,21,982	5,79,266	4,42,716	301
1888-89	534,510	113,470	135,482	783,462	10,93,472	5,99,176	4,94,296	304
1889-90	594,933	147,191	151,484	893,608	11,98,801	6,27,434	5,71,367	307
Total ...	1,625,042	356,125	413,896	2,395,063	33,14,255	18,05,876	15,08,379	304 average.
Increase	487,382	.....	40,449	284,243	1,20,092	1,19,127	965	10
Decrease	.....	243,588	.....	.....	.....	.....	.....	.....

* Including some deeds the registration of which has since become compulsory under the Bengal Tenancy Act.

The most noticeable figures in the above statement are those that show a decrease in optional registrations affecting immoveable property. They are fully explained by Mr. Holmwood, who shows that the decrease is due solely to the gradual introduction of the Transfer of Property Act and to a change in the classification of deeds for the transfer of permanent tenures and holdings of small value by sale or gift. The registration of these was formerly held to be optional, but is now deemed compulsory. In all cases in which sufficient time has elapsed to give these changes their full effect it has been found that optional registrations steadily increase *pari passu* with compulsory ones. There has been a steady increase in the operations of the Department, and its financial position is excellent, the surplus at the close of 1889-90 being larger than that of any previous year. Several new offices have been opened since the close of the year, and the demand for an extension of registration operations still continues.

3. The number of perpetual leases decreased from 78,766 in 1886-87 to 71,642 in 1887-88 and 69,330 in 1888-89, but it again rose to 76,390 in 1889-90. Mr. Holmwood's remarks on this point are of considerable interest and importance. He says:—"There are two great classes of perpetual leases—those given by zemindars to their tenants and those sublet by tenants to others. These two classes fluctuate independently of each other, and the circumstances of each particular district become a factor in determining their variations. But as far as the first class of perpetual leases is concerned, a general rule, such as would be naturally expected, seems to be at work. The amount of land being limited, the settlement by zemindars with their ryots in perpetuity has a tendency to increase up to a certain point, and then to steadily decrease as the majority of the lands become settled. This has actually been observed to be the case in the sub-district of Baraset in the 24-Pergunnahs, where the Sub-Registrar is the most punctual and business-like officer I have under me (which renders his office very popular), and is also a most careful observer and notes facts in connection with registration transactions in the most intelligent manner. He has observed a regular permanent settlement going on during the past two or three years between the zemindars and their ryots, owing to the zemindars finding it difficult to make arbitrary enhancements or ejections under the new law, and the number of registrations under this settlement has already reached its maximum and begun to decline. I have no doubt that this same cause is at work in other sub-districts, where the usual stereotyped explanation is given, that the zemindars find themselves in straitened circumstances owing to a succession of bad harvests; but it is only in particular districts, like those in the Dacca and Chittagong Divisions, where the ryots are prosperous and insist on obtaining some certainty of tenure, that these settlements are at all general." Many of the registrations are, of course, mere paper transactions due to the necessity for re-registration of under-tenures when the ownership of the property is transferred. The disturbance in the ordinary current of land transactions occasioned by the introduction of the Bengal Tenancy Act has rendered it difficult of late years to appreciate the true nature and value of fluctuations in figures of registration of deeds; but the experience of three years of its working

does show that the number of transactions under the head of perpetual leases has steadily increased and tends to reach a certain maximum, after which a decrease may be looked for. The following statement shows the number of perpetual leases registered in some of the important districts since 1882-83, and generally points to the conclusions arrived at by the Inspector-General, although in some districts the individual action of two or three large landholders always affects the statistics, and the bearing of the Tenancy Act upon them is thus prevented from being apparent:—

District.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.
Burdwan	904	863	1,012	1,051	1,183	1,118	1,318	1,374
Bankura	1,651	1,899	1,971	2,377	2,554	2,826	2,709	3,270
Midnapore	1,036	1,303	1,478	1,618	2,071	1,694	1,998	1,248
24-Pergunnahs	4,619	4,481	5,051	6,143	6,727	5,839	7,010	7,510
Nuddea	1,713	1,601	1,710	1,569	1,244	1,539	1,586	1,812
Jessore	11,881	11,199	21,315	9,750	6,207	3,792	3,009	4,360
Khulna	2,562	4,576	4,878	4,701	4,376	4,641	5,194	5,210
Dacca	535	790	590	763	899	1,234	1,221	1,317
Furreedpore	6,221	6,076	6,509	6,623	8,038	8,082	7,822	8,810
Backergunge	11,180	10,813	12,069	10,999	10,138	8,988	8,489	8,234
Noakholly	3,631	5,536	7,621	8,117	5,759	5,299	4,555	4,762
Chittagong	15,803	17,248	22,540	23,172	20,137	18,204	16,322	19,027

4. Of the total number of other than perpetual leases, which rose from 187,263 in 1886-87 to 227,686 in 1889-90, 175,231 were counterparts, the percentage of leases being 23·03 as compared with 27·06 in 1886-87, 23·65 in 1887-88, and 23·72 in 1888-89. Any deductions from these figures are dangerous, as District Registrars appear to be doubtful in some cases as to whether kabulyats should be classed as leases, or merely as the counterparts they are, and because pottahs are also frequently entered as counterparts. Moreover, the prevalence of *zar-i-peshgi* and *kurtaoli* leases, of which no counterparts are given, in the most important districts of Behar, frustrates any attempt at theorizing on these statistics. At the same time it is unsatisfactory to note that some of the District Registrars are of opinion that the low figures for their own districts are due to "the inability of the ryots to exact pottahs from their landlords, and the aversion of zemindars to give pottahs on account of their dignity suffering by so doing, on account of the expense, which they consider unnecessary and the ryots are unwilling to incur, and, lastly, on account of a fear of their ryots obtaining occupancy rights."

5. The number of instruments of mortgage of the value of Rs. 100 and upwards rose gradually from 58,648 in 1886-87 to 77,555 in 1889-90. There was a slight decrease last year in the districts of Rungpur, Dacca, and the Sonthal Pergunnahs. Similar instruments of value less than Rs. 100 also considerably increased during the last three years, the figures of the past year being 130,007 against 72,355 in 1886-87. The increase is in many cases ascribed to failure of crops and the high price of food-grains. An interesting cause of the increase during the past year is reported from Noakhali, where the crops have been good and land operations extensive. The District Registrar supposes that many mortgages of small plots of land have been executed by the ryots who have extended cultivation, for the purpose of buying cattle and agricultural implements. In Sarun, where the circumstances are wholly different, a very similar reason for increase is given. The matter is clearly one for further investigation, and the Inspector-General, who has called for a further report from the District Registrar of Noakhali on the subject, will be requested to notice this point in his notes while submitting the statistical returns for the current year. The increase in deeds of mortgage does not appear to have affected the registrations of obligations for payment of money, including bonds and miscellaneous deeds, such as kabinnamahs. The latter rose from 89,795 in 1886-87 to 103,962 in 1889-90. About 82 per cent. of the bonds were of values up to Rs. 100, the rest exceeding that amount. The increase in this case, as in the case of mortgages, is probably due, to a great extent, to the scarcity that affected many parts of Bengal during the past year. The total number of registrations affecting moveable property, excluding wills and written authorities to adopt, increased from 125,188 in 1886-87 to 149,350 in 1889-90.

6. While the aggregate value of property transferred by registered documents increased by more than 520½ lakhs of rupees in 1888-89, it decreased by more than 412½ lakhs during the past year. There was an increase of nearly 11 lakhs in the value of moveable property transferred, but the value

of immoveable property diminished by more than 423 lakhs. It is unsatisfactory to note that no explanation is forthcoming of the wholly unprecedented increase observed last year or of the great fall in the year following. In former years fluctuations in these figures were not considerable, and it is an insufficient explanation to attribute them to general dulness of trade. The Lieutenant-Governor is glad to note that the Inspector-General has called for a special report on this subject, and hopes to hear at an early date what has resulted from a further examination of the details of the statistics now given.

7. Statement XII appended to the report shows that 90,691 transfers of estates and tenures were effected by deeds of sale during the past year against 52,858 in 1886-87 and 81,382 in 1888-89, and that 9·9 per cent. of the purchasers were mahajans, traders or money-lenders, 15·3 per cent. zemindars, 29·6 per cent. intermediate tenure-holders, 24·1 per cent. ryots, and 21·1 per cent. others not specified. The details which show the numbers in each class of purchasers, and the proportion of each to the total, lose much of their value from the fact that certain classes of purchasers, such as mahajans and zemindars, are more likely to register purchases than the lower classes of ryots, and also from the fact that town properties and other estates in the neighbourhood of registration offices must always bear an undue proportion to the total number of transfers registered. The following table compares the sales of ryoti holdings and the number and classes of purchasers during the last four years, and shows a steady increase in the number of such transactions, which is, no doubt, the result of the facilities afforded by the Tenancy Act:—

Year.	RYOTI HOLDINGS AT FIXED RATES.							RYOTI HOLDINGS WITH RIGHT OF OCCUPANCY						
	Number of transactions.	Purchasers.						Number of transactions.	Purchasers.					
		Mahajans, traders, or money-lenders.	Zemindars.		Ryots.	Others.	Total.		Mahajans, traders, or money-lenders.	Zemindars.		Ryots.	Others.	Total.
			Landlords of holdings transferred.	Other landlords.						Landlords of holdings transferred.	Other landlords.			
1886-87 ...	24,721	3,791	786	2,804	13,500	7,315	27,896	53,971	6,458	1,050	3,315	37,602	8,070	56,564
1887-88 ...	30,137	4,830	891	2,577	16,368	7,918	32,584	58,200	7,654	974	3,405	40,086	8,143	60,862
1888-89 ...	81,396	5,124	1,395	3,092	17,823	8,176	35,610	64,449	8,301	1,371	4,434	45,012	8,030	67,148
1889-90 ...	35,343	5,161	1,181	2,51[illegible]	20,390	8,396	37,649	77,373	10,029	2,060	5,198	54,234	9,277	80,798

8. The number of registrations under sections 12 and 18 of the Bengal Tenancy Act fell from 79,109 in 1886-87, 76,324 in 1887-88, and 47,391 in 1888-89 to 26,780 in 1889-90. The decrease in the past two years is due, to a certain extent, to the discontinuance of the practice of registering deeds relating to fractional portions of permanent tenures or ryoti holdings at fixed rates, where the partition is not made with the landlord's consent in writing. On the subject of sections 12 and 18 of the Act, Mr. Holmwood remarks: "there is not the least doubt that the levy of landlords' fees under those sections is exceedingly unpopular with both landlords and tenants, and that it is evaded in every possible way. The reasons of this unpopularity are not far to seek. The ryots object to pay the landlord's fee because in a great many cases it is refused by the landlord as being beneath his dignity, or as being likely to amount to an admission of an occupancy right of the tenant, and in nearly every case the ryot is not exempted by its payment from the necessity of giving *salami* to his landlord." Sir Steuart Bayley is inclined to agree with the Inspector-General in his deductions from the figures showing a great increase in the number of registrations of leases, mortgages and sales, and to attribute them to the indirect effect of the Bengal Tenancy Act. Mr. Holmwood's interesting comments on these figures and his explanation of them will be brought to the notice of the Revenue Department.

9. Further enquiry will be made into the forgery cases mentioned in paragraph 53 of the report, and the Inspector-General of Registration will be asked for recommendations on the subject of the rules relating to impounded deeds. Mr. Holmwood's remarks as to the power which is given to Rural Sub-Registrars to give gratuitous advice to parties are useful. There can be no doubt

that a free use of this power by sympathetic officers would largely increase the popularity of registration offices among the lower classes.

10. The number of inspections made by the Inspector-General and other officers during the past year was 861 against 868 in 1888-89 and 906 in 1887-88. His Honour is glad to observe that District Registrars have themselves done a fair share of this work, but would impress on them their direct responsibility for the great falling off in the number of inspections by Sadr Sub-Registrars and Sub-divisional Officers. In 16 of the districts that have sub-divisions there were no inspections made at all, and Sir Steuart Bayley is convinced that there can be no adequate excuse for such a failure in duty. The remarks made by the Inspector-General on the subject of *ex-officio* Sub-Registrars at Sadr stations have been noted by the Lieutenant-Governor, and any further representations or special reports on the subject that Mr. Holmwood may think fit to make will receive His Honour's careful consideration.

11. The following table shows the working of Act I (B.C.) of 1876 for the Voluntary Registration of Mahomedan Marriages and Divorces since its introduction:—

Years.	Number of districts in which the Act was in force.	Number of offices open on the 31st March.	Number of marriages registered.	Number of divorces other than *kholas* registered.	Number of *kholas* registered.	Total number of ceremonies registered.
1876-77	14	77	2,555	402	161	3,118
1877-78	14	103	7,391	1,404	595	9,390
1878-79	14	103	8,161	1,705	771	10,637
1879-80	14	107	7,137	2,097	623	9,857
1880-81	14	106	5,777	1,874	779	8,430
1881-82	14	107	4,951	2,239	667	7,857
1882-83	14	112	5,068	2,247	766	8,081
1883-84	14	112	4,279	2,315	895	7,483
1884-85	14	112	3,913	2,540	957	7,410
1885-86	14	112	3,993	2,422	1,109	7,524
1886-87	14	112	3,926	2,179	1,147	7,252
1887 88	14	112	4,100	2,478	1,090	7,668
1888-89	14	113	4,527	2,819	1,113	8,459
1889-90	14	113	3,959	3,119	1,137	8,215

The districts of Dinagepur, Pubna, Backerganj, Noakhali, Mymensingh, Bogra, Tipperah, and Dacca showed an increase in the total number of ceremonies registered, while the districts of Khulna, Rajshahye, Rungpur, Faridpur, and Chittagong showed a decrease. The Inspector-General of Registration thinks that in the majority of districts the Mahomedan Marriage Registrars are slowly but surely gaining ground, and that in those districts where they do not do so, it is owing to their own inferior qualifications or to the active opposition of interested headmen and zemindars. Mr. Holmwood was lately asked for a separate report with reference to the alleged unpopularity of the Act, and he has given his reasons for holding that it is not in any way unpopular, though in certain places it is neglected and in certain others its effects are destroyed by the opposition of a few hostile zemindars, and the Lieutenant-Governor is inclined to agree with the view he has expressed. Some practical reforms suggested by Nawab Abdul Latif Bahadur, C.I.E., in a valuable minute on the working of the Act, have been adopted by the Permanent Committee and approved by Government, and they will be immediately introduced. The Act is at the same time to be extended, on the recommendation of the Permanent Committee, to the Town of Calcutta and the districts of 24-Pergunnahs, Jessore, and Murshidabad. As regards the Qazis' Act, the Inspector-General writes that the "Act does not seem to gain ground much, though wherever the Qazis are energetic enough to establish Naib Qazis and get hold of the professional persons who arrange marriages there is a marked increase in their operations. This is specially noticed in the districts of Eastern Bengal." The Lieutenant-Governor hopes that district officers will show more interest in the working of this important Act in the future, and notices with

much pleasure the commendation bestowed by the Inspector-General on the admirable work done by Baboo Nil Ratan Mookerjee in Mymensingh.

12. Mr. Blyth was in charge of the Department throughout the past year, with the exception of a few days of the closing month, and was relieved by Mr. Holmwood, the present Inspector-General, on the 16th March 1890. The thanks of the Lieutenant-Governor are due to Mr. Holmwood for his careful and interesting report. The names of the officers specially commended by the Inspector-General will be noted in the Appointment Department.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Inspector-General of Registration for information and guidance.

Ordered also that extract paragraph 8 of the Resolution and extract paragraph 51 of the Report be forwarded to the Revenue Department for information.

Ordered also that a copy of the Resolution, together with a copy of the Report, be submitted to the Government of India, in the Home Department, for information.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

FLOODS IN THE DISTRICT OF SARUN.

REVENUE DEPARTMENT.

Dated Yacht Rhotas, 26th August 1890.

RESOLUTION.

READ—

Letter No. 28R, dated the 9th August, 1890, from the Commissioner of the Patna Division, asking the sanction of Government to his authorising the Collector of Sarun to make advances under the Agricultural Loans Act and the Land Improvement Advance Act to the extent of Rs. 15,000 in addition to the sum of Rs. 10,000 already assigned to that district on account of heavy inundations.

Read—

Letter No. $\frac{3929}{150}$ Fam., dated the 12th August, 1890, to the Commissioner of Patna, approving of his proposal to authorise the Collector of Sarun to make the advances if the Commissioner is satisfied, on receipt of the Collector's report, that advances to such an extent are necessary.

Read—

Letter from the Commissioner of Patna, No. 505G, dated the 14th August, 1890, submitting a report from the Collector of Sarun on the inundations.

Read—

A letter, dated the 24th August, 1890, from the Commissioner of Patna, submitting a further report from the Collector of Sarun on the inundations and the measures he has taken, and is taking, for the relief of distress.

Mr. Bourdillon has shewn both energy and organising capacity in the arrangements made by him for the relief of the distress caused by the floods. The measures taken within the town of Chupra itself are well conceived, and the Lieutenant-Governor was glad to see, on his visit of inspection, that they had been efficiently carried out. The expense has hitherto been met from municipal funds, from money raised by private subscription, and by the diversion to this purpose of a sum collected for His Honour's reception, a transfer most pleasing to Sir Steuart Bayley. But if a moderate grant should hereafter be required from Government, it will be very willingly given.

In the interior it would appear from the eagerness with which grain sent from Chupra by boat was purchased that there is real distress, which all residents will not be able to provide for by buying grain. The Lieutenant-Governor is, moreover, inclined to doubt whether the mahajans will advance to all ryots, now that the usual security has disappeared with the loss of the crop on the ground, and also whether all labourers will be supported, as the best of them will doubtless be, by their usual employers. It seems desirable to establish a village agency for ascertaining the facts, and administering relief where necessary; also for co-operating with the officers whom the Collector proposes to depute to examine applications for loans. These may be freely given, where required, up to the amount of the Government grant for the purpose, and the proceeds may without objection be applied to the support of the ryots, and their cattle. Very small loans may occasionally be made to labourers, on such security as they can offer. The result of the enquiries made by the village agency will indicate how far gratuitous relief is needed; where required it should not be withheld.

The Lieutenant-Governor desires that the additional arrangements now ordered should be made promptly, and does not contemplate their continuance for any length of time. They are applicable in full only so long as the labourers are deprived of work by the effects of the flood, and may be curtailed when the waters subside. The loans will, no doubt, be necessary at a later period, to ease the pressure caused by the loss of the crop.

ORDER.—Ordered, that a copy of the Resolution be forwarded to the Commissioner of the Patna Division for information and for communication to the Collector of Sarun.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 30th August, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
Burdwan Div. 1	Burdwan Aug. 30, '90	0·57	Weather—cloudy and hot. Sugarcane not bad. *Aus* promising. *Amun* in good state. Prices of common rice :—
	Culna ...	0·18	
	Cutwa ...	0 58	
	Ranigunge ...	1·36	Srs. Burdwan ... ... 15; Culna ... ... 14; Cutwa ... ... 14 1/16; Ranigunge ... ... 15 1/4 — per rupee.
2	Bankoora „ 30, '90	1·15	Weather—cloudy with occasional light showers. More rain wanted for *aus* as well as for *amun* crop on high lands. Prospects favourable. Extent of rice sowing this year in the Sudder subdivision estimated at 16 annas. Common rice selling at 19 seers per rupee at Sudder and 18½ seers at Bissenpore.
3	Birbhum „ 30, '90	4·50	Weather—seasonable. Prospects of all crops—early rice, late rice, and sugarcane—are at present exceptionally good. Prices of rice continue at from 16 to 18 seers per rupee.
	Rampore Haut ...	3·55	
4	Midnapur „ 30, '90	Nil	Some rain in south of district. Prospects of rice crop fair. More rain wanted throughout district. Demand for canal water increasing. Prices of common rice :— Srs. Ch. Sudder ... ... 16 0; Contai ... ... 16 0; Tumlook ... ... 14 3; Ghatal ... ... 16 0 — per rupee.
5	Hooghly „ 30, '90	1·48	Weather—cool with showers. State and prospects of crops excellent. More rain required for *amun* rice in the Serampore subdivision. Prices of common rice :— Srs. Sudder ... ... 13; Serampore ... ... 16; Jehanabad ... ... 16 — per rupee.
	Serampore ...	0·52	
	Jehanabad ...	1·20	
	Howrah „ 30, '90	Figures not given.	Weather—showery. More rain wanted in north of district. Transplanting of *amun* not yet finished. Condition of crops generally on the whole satisfactory. Price of common rice 13 to 14 seers per rupee.
	Central Districts.		
Presidency Div. 6	24-Perghs. Aug. 30, '90	2·10	Weather—seasonable. Prospects of standing crops good. Transplantation of *amun* rice still going on. Prices stationary.
7	Nuddea „ 30, '90	1·50	Weather—seasonable. *Aus* paddy on high land is being cut and is in good condition. The crops on low lands have been destroyed by the floods.
	Kushtea ...	1·58	
	Meherpore ...	0·40	
	Chuadanga ...	0·59	
	Ranaghat ...	0·28	
8	Khoolna „ 30, '90	2·08	Weather—sunny and hot in early part of week, rainy in latter part. Excessive rain has done some damage to the crops in the Khoolna thana and to the *aus* crop in Satkhira, but prospects are still fair.
	Bagirhat ...	0·62	
	Satkhira ...	2·16	
9	Jessore „ 30, '90	2·68	Weather—hot and cloudy with occasional showers. Much injury has been caused by floods in Bongong, Jhenidah, and Magura to all crops. The *aus* crop in the greater part of Bongong has been destroyed. More flood water is expected in a few days. Average price of common rice about 13 seers per rupee.
	Jhenidah ..	0·44	
	Magura ...	2·36	
	Narail ...	0·11	
	Bongong ...	2·30	
10	Moorshedabad „ 30, '90	0·84	Weather—seasonable. Considerable destruction of *aus* and *amun* in all the lower tracts from flood. Rain wanted for *amun*. People much inconvenienced by inundation, but distress not much. The Bhagiruthee falling slightly.
11	Dinagepur „ 30, '90	6·01	Much rain during the week. Prospects of crops continue favourable. Price of rice unchanged.
	Thakurgaon ...	9·25	
Rajshahye Div. 12	Rajshahye „ 30, '90	0·93	Weather—cloudy and rainy. Flood higher than in last year; it has done some damage to *aus* paddy which could not be reaped earlier. *Haimanti* paddy on low lands submerged. Prospect as yet good, if the flood subsides soon.
	Nattore ...	2·90	
	Nowgong ...	1·77	
13	Rungpur „ 30, '90	2·49	Weather—cool and cloudy with frequent showers. Jute harvest in full swing. *Amun* rice is being transplanted. Sugarcane flourishes. Prices still range very high.
	Nilphamari ...	3·56	
	Kurigram ...	1·66	
	Gaibanda ...	7·97	
14	Bogra „ 30, '90	5·09	Weather—very rainy and cloudy. Transplantation of *amun* nearly completed. Condition of *aus* and jute good, and *amun* and sugarcane crops promising. Reaping of *aus* and jute not yet finished. Common rice selling at 18 seers per rupee.
	Sherpur ...	2·91	
	Nowkhilla ...	2·15	
15	Pubna „ 30, '90	0·63	Weather—cool and showery. Jute and *aus* are being cut. Outturn of the latter expected to be 12 annas. Prospects of *amun* continue good except on low lands. Prices stationary.
16	Darjeeling „ 30, '90	4·98	Weather—rainy. *Bhadoi* crop harvested; transplantation of winter rice completed in Terai; prospects of *marua* good.
17	Julpigoree „ 30, '90	7·21	Weather—wet and cloudy. Transplanting of *haimanti* paddy and harvesting of *aus* paddy going on. Prospects generally good. Jute is being cut. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca Aug. 30, '90	2·29	Weather—mostly cloudy and rainy. *Aus* paddy and jute being harvested. *Amun* paddy thriving. Rivers are rising again rapidly, and *aus* and jute have suffered to some extent in consequence. Fodder is available, but not in abundance. Common rice sells at from 13 to 15 seers per rupee.
19	Furreedpur „ 30, '90	3·99	Weather—seasonable. Water rising. State of *amun* fair. *Aus* partially damaged. Common rice selling at 13 seers rupee. Fodder scarce; cattle suffering in consequence.
20	Backergunge „ 30, '90	1·26	Weather—seasonable. Rainfall heavy in Perozepur (5·16 inches), elsewhere much lighter. Outturn of *aus* crop estimated at 12 annas. Standing crops promise fair, though partially damaged by flood. *Amun* seedlings damaged by rise of water in some places, but new sowings have done well. Transplantation going on rapidly; an average crop is expected. Common rice selling at about 13 seers per rupee.
21	Mymensingh „ 30, '90	3·54	Weather—rainy and cool. About three-fourths of the area set apart for *amun* paddy has been sown and seedlings transplanted. The plants are healthy and very promising. Jute is being harvested. Coarse rice sells at 13½ seers per rupee.
Chittagong Divn. 22	Chittagong „ 30, '90	6·04	Weather—seasonable. *Aus* is being harvested. Transplantation of *amun* going on. Prospects fair. Common rice selling at 16 seers per rupee.
23	Noakholly „ 30, '90	4·54	Weather—rainy and cloudy. Reaping of *aus* crop nearly completed. Transplantation of *amun* progressing.
24	Tipperah „ 30, '90	4·09	Weather—seasonable; cool, cloudy and wet. Jute and *aus* rice are being cut. *Amun* is being transplanted. Floods considerable in the district, but no serious damage done to standing crops. Prices stationary.
25	Chittagong Hill Tracts. „ 28, '90	4·95	Weather—rainy and sunny throughout the week. Harvesting of early *jum* paddy continues Transplanting of late rice crop in low lands nearly finished. Common rice is being sold at 12 seers 15 chittacks per rupee.
	Hill Tipperah „ 29, '90	1·29	Weather—cloudy with occasional showers. Transplanting of *amun* nearly over. *Jum* crops promising. Common rice selling at from 13 to 16 seers per rupee.
BEHAR.			
Patna Divn. 26	Patna „ 30, '90	8·27	Weather—very hot. Transplantation of paddy still continues. *Marua* is being reaped in some places. Prospects of *bhadoi* crops poor. Sugarcane looks well. Prices of food-grains generally stationary.
	Behar ...	2·62	
	Dinapore ...	9·51	
	Barh ...	6·23	
27	Gya „ 30, '90	10·30	Weather—rainy and cloudy. Paddy transplantation finished. *Marua* is being reaped in places. Prospect of *bhadoi* not good. Prices of food-grains almost stationary.
28	Shahabad „ 30, '90	2·47	Weather—hot but changeable. Paddy prospects continue good. As already reported, scarcely any *bhadoi* in Sudder and Buxar. A little *bhadoi* crop in Sasseram and Bhabuah. Prices stationary.
	Buxar ...	6·37	
	Bhabuah ...	5·10	
	Sasseram ...	4·47	
29	Durbhunga „ 30, '90	9·13	Weather—generally cloudy. *Makai* and *marua* commenced to be harvested in places. Retransplanting of rice still going on on some of the lands previously inundated. Prospects generally favourable. Price of common rice varies from 14 to 16 seers per rupee.
	Somastipur ...	4·31	
	Madhubani ...	6·41	
30	Muzufferpur „ 30, '90	6·99	Another rainy week, but it has now cleared up and there is some prospect of dry weather. Condition of rice crop satisfactory, except in low places where damage has been done by floods. *Makai* ripening; a crop of from 6 to 8 annas will probably be gathered. Prices stationary and much lower than last year.
	Hajipur ...	3·14	
31	Sarun „ 30, '90	2·70	Monsoon weather. *Bhadoi* crop is almost a total failure. Rice a complete failure over one-fourth of the district from flood; about a 12-anna crop elsewhere. Indigo prospects poor.
32	Chumparun „ 30, '90	8·80	Weather—fair and cloudy alternately. Heavy rain again during the week. Harvesting of *saro* rice and *kodo* commenced. *Aghani* rice doing well. *Makai* in ear.
	Bettiah ...	6·65	
Bhagulpore Divn. 33	Monghyr „ 30, '90	2·90	Weather—cloudy and rainy with sunshine at times. Prospects of winter rice continue favourable. *Sama, kaoni,* and *makai* are being reaped in the Beguserai subdivision.
	Beguserai ...	2·47	
	Jamui ...	4·34	
34	Bhagulpore „ 30, '90	6·01	Weather—rainy with intervals of sunshine. Except for portion of the crop in the Soopool subdivision destroyed by floods, the prospects of the *aghani dhan* are good. *Marua, janera,* and *bhadoi dhan* harvests are in progress.
	Banka ..	2·71	
	Mudhepura ...	3·25	
	Soopool ...	3·58	
35	Purneah „ 30, '90	6·83	Copious rain throughout the week and cloudy weather. *Aghani* transplantation is still going on in the Purneah and Kishengunge subdivisions. It is doing well in the Arrareah subdivision. *Bhadoi* paddy and jute are still being cut; outturn good.
	Kishengunge ...	9·70	
	Arrareah ...	7·29	
36	Maldah „ 30, '90	6·48	Weather—generally bright. Heavy rain on 29th. Much damage has been done to *bhadoi* by inundation. *Bhadoi* outturn expected to average about 6 annas. Prospects of jute and winter rice good, though in some places they have been slightly damaged. Common rice selling at from 12 to 17 seers per rupee.
	Chanchal ...	3·08	
	Shibgunge ...	2·31	
	Gajole ...	11·64	
37	Sonthal Perghs. „ 30, '90	0·75	Weather—seasonable. Present break in the rains is doing much good. Rice crop is everywhere doing very well, and prospects are excellent. *Makai* has been more damaged by the rain than was anticipated, and from Deoghur it is reported to be nearly a total failure.
	Deoghur ...	3·39	
	Godda ...	2·11	
	Jamtara ...	0·87	
	Pakour ...	2·03	
	Rajmehal ...	3·17	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	ORISSA.			
Orissa Divn.	38	Cuttack ...	...	Report not received.
Orissa Divn.	39	Pooree Aug. 28, '90 Khoorda ... Banpur ...	6·28 0·78 1·83	Weather—seasonable. Transplanting and weeding of *sarad* going on. *Beali* is being harvested. Miscellaneous crops doing well. Price of common rice ranges from 21 seers to 18 seers 6 chittacks per rupee.
Orissa Divn.	40	Balasore ,, 30, '90	0·08	Weather—cloudy but rainless. The insufficient rainfall of July and August has spoilt the excellent prospects of June, especially in the Bhadrak subdivision. Number on relief-works 36. Relief-works close tomorrow (31st August).
	CHOTA NAGPORE.			
	South-West Frontier Agency.			
Chota Nagpore Divn.	41	Hazaribagh Aug. 30, '90	2·70	Weather—seasonable. Rain and sunshine alternating. Transplanting of paddy completed in most places, and the crop is doing very well. Prospects of Indian-corn poor. Other *bhadoi* crops also damaged by excessive rain. Prices stationary.
Chota Nagpore Divn.	42	Lohardugga ,, 30, '90 Palamow (up to 25th Aug.)	2·30 2·16	Weather—warm and cloudy. Transplantation of winter rice finished. Prospect of *bhadoi* is good. Some damage has been caused to *makai* in Palamow by excessive rain.
Chota Nagpore Divn.	43	Singbhoom Aug. 30, '90	0·28	Rain still holding off in Chybassa and its neighbourhood; in other parts sufficient rain said to have fallen. Excepting in Chybassa thana, where the *bera* paddy crop is said to have suffered from 2 to 4 annas in extent, all crops are reported to be doing well. Indian-corn and *gora* paddy are yielding fully.
Chota Nagpore Divn.	44	Manbhoom ,, 30, '90 Govindpore ...	0·47 2·37	Weather—seasonable. Prospects of winter crops good. *Bhadoi* crop not favourable; outturn much below the average. No report about indigo outturn yet received. Common rice selling at from 17 to 22 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 2nd September 1890.

P. NOLAN.
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 24th to 30th August 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Aug.	24th	153·7	6·6	29·654	82·4	87·6	11·1	76·5	78·6	0·928	77·0	84	WSW, SW and calm	71	0·08	Partially cloudy, ☁, p.
,,	25th	146·1	4·0	·656	83·0	86·6	9·2	77·4	79·9	·981	78·6	87	SSW, S and calm ...	39	Nil	Chiefly cloudy, ☁.
,,	26th	139·7	3·0	·693	82·0	86·3	10·1	76·2	79·4	·971	78·3	89	SE by S and S ...	53	0·81	Chiefly cloudy, ☁, o, d, p, t.
,,	27th	147·6	7·7	·683	83·0	87·6	11·0	76·6	79·1	·946	77·5	84	S, SSE and SSW ...	99	0·08	Partially cloudy, p.
,,	28th	136·0	1·0	·670	82·9	85·5	6·1	79·4	79·9	·980	78·6	87	S and SSW ...	128	0·07	Chiefly cloudy, o, d, p, t.
,,	29th	117·3	Nil	·663	80·9	84·2	8·5	75·7	79·2	·976	78·5	92	SSW, calm and variable.	65	0·47	Cloudy, o, g, d, p, t.
,,	30th	147·5	6·7	·638	81·8	88·5	12·6	75·9	78·6	·940	77·3	87	WSW, calm and variable.	42	0·66	Partially cloudy, o, d, p, ☁.

		Inches.
The mean pressure of the seven days		29·665
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·027
		Hours.
The total number of hours of bright sunshine		29 0
The maximum possible number of hours of sunshine		88·5
		°
The mean temperature of the seven days		82·3
The average temperature of the corresponding period for 24 years, S.-G.'s Office		83·2
The extreme variation of temperature		12·8
The maximum temperature		88·5
		Miles.
The highest velocity of the wind in one hour		15
		lbs.
The highest pressure of wind on one square foot	Not measurable.	
		%
The mean relative humidity		87
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		86
		Inches.
The total fall of rain from 24th to 30th August 1890		2 17
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		2·34
The total fall from 1st January to 30th August 1890		40·17
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		48·02

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; p, passing temporary showers; t, thunder; ☁ dew.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 1st September 1890.

Meteorological Report of the Province of Benga

Meteorological Division.	District.	Representative station.	Station Observations.													
			Air pressure.			Wind.		Temperature.								
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree ...	29·739	29·751	—	Calm	273	89·7	26th Aug.	76·6	27th Aug.	86·4	78·5	82·5	—	80
		Gopalpore ...	29·729	29·751	+·081	SW	254	90·2	26th ,,	76·8	23rd ,,	87·4	79·1	83·3	+0·3	82
		False Point ...	29·726	29·748	+·044	WSW	247	88·5	26th ,,	75·6	23 & 26 ,,	84·6	77·0	80·8	−1·9	80
	Cuttack	Cuttack ...	29·675	29·756	+·062	WSW	67·9	90·4	26th ,,	75·8	27th ,,	87·1	77·3	82·2	−1·5	81
	Balasore	Balasore ...	29·674	29·733	+·048	SSW	157·0	88·4	26 to 28 ,,	75·7	24th ,,	86·4	77·1	81·8	0	80
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·708	29·734	+·041	SSW	466	88·7	28th ,,	78·5	26th ,,	86·1	80 1	83·1	−0·2	82
	Midnapore	Midnapore ...	29·570	29·721	+·024	S	163·9	90·3	25 & 27 ,,	76·1	24 & 29 ,,	88·8	77·4	83·1	+0·6	81
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	Calcutta ...	29·705	29·727	+·039	SSW	86	87·5	25 & 28 ,,	76·7	24 & 27 ,,	85·6	77·8	81·7	−0·7	81
	Burdwan	Burdwan ..	29·628	29·728	+·039	S & SW	109·4	90·6	26 & 27 ,,	77·4	29th ,,	88·9	78·9	83·9	+0·3	81
	Bankoora	Bankoora ...	29·395	29·697	+·027	S & calm	48	90·1	26 & 28 ,,	76·6	23rd ,,	88·7	77·6	83·1	+1·6	79
	Beerbhoom ... ... / West Burdwan	Ranegunge...	29·376	29·711	+·032	WSW	41·3	90·0	28th ,,	75·4	23rd ,,	87·8	77·8	82·8	+0·2	80
	Moorshedabad	Berhampore...	29·639	29·706	+·013	S	132·7	88·1	24th ,,	77·3	23rd ,,	86·8	78·7	82·8	−0·5	81
	Nuddea	Krishnaghur...	29·670	29·718	+·039	SSE	150·3	?	?	?	?	?	?	?	?	?
	Jessore ... ... / Khoolna	Jessore ...	29·700	29·734	+·032	SSE	89·1	90·2	26th ,,	77·4	28th ,,	88·1	78·5	83·3	−0·3	81
East Bengal.	Chittagong	Chittagong	29·720	29·810	+·044	SSE	124·0	87·1	25th ,,	74·0	24 & 27 ,,	85·8	74·6	80·2	−0·4	78
	Chittagong Hill Tracts	Demagiri ...	Observations not received.													
	Backergunge	Barrisal ..	29·737	29·749	+·045	S	139·0	87·3	27th Aug.	75·8	23rd ,,	84·7	76·8	80·8	−0·8	80
	Noakholly	Noakholly ...	29·753	29·797	+·057	SE	178·5	85·0	27th ,,	74·3	23rd ,,	83·4	76·5	80·0	−0·9	79
	Furreedpore	Furreedpore...	29·712	29·752	+·026	S	175·0	86·5	27th ,,	77·9	29th ,,	84·8	79·3	82·1	0	81
	Dacca	Dacca ..	29·723	29·746	+·026	S	234·8	88·1	27th ,,	76·2	29th ,,	86·3	78·9	82 5	−0·7	80
	Commillah	Commillah ..	29·741	29·777	+·035	S	196·2	87·4	23 & 27 ,,	72·8	27th ,,	85·3	74·8	80·0	−1·3	78
	Mymensingh	Mymensingh	29·691	29·749	+·016	SSE	137·9	87·2	24 & 27 ,,	75·6	29th ,,	85·3	77·1	81·2	−1·1	79
North Bengal.	Bogra	Bogra .	29·647	29·710	+·039	S & E	70·6	88·3	24 & 25, 27, 28th Aug.	77·1	23 & 25 ,,	87·2	78·0	82·6	+0·2	80
	Pubna	Serajgunge ..	29·683	29·730	+·010	S	127·3	86·1	27th ,,	75·7	29th ,,	85·2	77·2	81·2	+1·5	80
	Rajshahye	Rampore Beauleah.	29·641	29·712	+·032	S & S-wly.	203·2	86·8	25 to 28 ,,	78·5	23 & 25 ,,	86·0	79·7	82·9	+0·4	82
	Maldah	Maldah ...	29·624	29·705	+·068	S	65·7	90·5	27th ,,	76·5	29th ,,	88·7	78·5	83·6	−0·2	81
	Dinagepore	Dinagepore ..	29·591	29·712	+·006	S	41·4	89·6	28th ,,	76·1	29th ,,	87·9	78·8	83·4	+0·1	80
	Rungpore	Rungpore ...	29·612	29·738	+·032	E & ESE	94·0	88·8	29th ,,	75·2	29th ,,	87·1	77·3	82 2	−0·8	80
	Julpigoree ... ... / Cooch Behar	Julpigoree ...	29·440	29·731	+·029	?	?	80·9	26th ,,	74·1	23 & 24 ,,	84·5	74·8	79 7	−2·6	77
	Darjeeling Hill Tracts ...	Darjeeling ..	22·920	—	−·008	Variable	75·7	63·6	24 to 26 ,,	55·0	25th ,,	62·6	56·4	59·5	−1 5	5
North Behar.	Purneah ... / North Bhagulpore ...	Purneah ..	29·573	29·700	+·015	Calm	22·6	88·7	26th ,,	75·9	29th ,,	86 8	77·2	82·0	−0·7	80
	Mozufferpore	Mozufferpore	29·492	29·673	—	ENE	83·6	87·3	26 & 28 ,,	74·2	29th ,,	85·8	78·1	82·0	—	79
	Durbhunga	Durbhunga ...	29·538	29·706	+·020	ESE	84·7	88·4	27th ,,	73·5	29th ,,	85·8	76·6	81·2	−2·0	77
	Chumparun . ..	Motihari ...	29·476	29·705	+·032	ENE	113·9	90·2	26th ,,	73·8	29th ,,	85·9	76·7	81·3	+1·8	80
	Sarun	Chupra ..	29·492	29·686	+·020	S	89·0	88·3	26th ,,	77·6	24, 26, & 29th Aug.	86·0	78·8	82·4	−1·0	80
South Behar.	Shahabad	Dehree ...	29·342	29·700	+·023	W	35·5	87·3	28th ,,	74·0	29th ,,	84·7	76·3	80·5	+1·6	79
		Buxar .	29·432	29·695	+·027	N..Wly.	91·4	89·4	28th ,,	73·3	29th ,,	85·7	76·7	81·2	−2·0	78
		Arrah ..	29·518	29·715	+·056	SSW	22·6	89·4	28 & 29 ,,	74·6	26th ,,	87·4	77·0	82·2	−1·6	79
	Gya	Gya ..	29·326	29·708	+·034	W	105·9	89·4	28th ,,	73·8	29th ,,	86·1	76·7	81·4	−2·6	79
	Patna	Bankipore ..	29·510	29·695	+·014	Variable	62·9	8,·4	28th ,,	72·7	26th ,,	86·1	77·1	81·6	−2·5	79
	South Bhagulpore ... / Monghyr	Bhagulpore ...	29·522	29·685	+·017	Calm	24·0	89·7	28th ,,	76·0	24th ,,	87·0	77·9	82·4	−0·9	81
	Sonthal Pergunnahs ..	Doomka ...	29·214	29·712	+0·34	Variable	94·2	88·4	27th ,,	75·7	24th ,,	85·7	77·1	81·4	−0·4	81
Chota Nagpur.	Hazaribagh	Hazaribagh ..	27·710	29·725	+·028	Westerly	182·7	85·9	28th ,,	68·7	29th ,,	81·5	71·7	76·6	−1·4	79
	Lohardugga ... ... / Manbhoom	Ranchee ...	27·593	29·726	+·031	Variable	122·9	84·5	29th ,,	68·9	29th ,,	82·5	70·2	76·4	−0·4	79
	Singbhoom	Chyebassa ..	28·941	29·719	+·038	WSW	49·4	89·9	28th ,,	74·2	25th ,,	83·0	75·3	81·7	+0·3	79
Assam.	Assam	Sibsagar ...	29·441	29·779	+·019	SW		90·6	27th ,,	74·5	29th ,,	86·7	76·1	81·4	−2·2	79
		Dhubri ..	29·617	29·735	+·017	Variable	99·7	86 7	23rd ,,	76·8	29th ,,	83·7	76·3	80·0	−2·6	79
		Silchar ..	29·699	29·796	+·031	Calm	45·1	88·5	27th ,,	75·3	24, 26, 28 & 29th Aug.	85·2	75·6	80·4	−2·4	79

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the l

* The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numb

are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the p

stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 29th of August 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	On week. Mean for district.	On week. Normal mean.	District observations. Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Divisions.
85	9·0	4·57		2·10		11·05			33·16			4·0	Pooree ...	Pooree	Orissa.
85	4·4	0·05											Gopalpore ...		
88	8·9	2·17											False Point ...		
81	8·7	2·90	2·86	2·06	9·56	10·46	—0·90	36·88	34·12	+2·76	3·2	3·8	Cuttack ...	Cuttack	
87	2·9	0·24		2·00		10·92			34·91			3·9	Balasore ...	Balasore	
89	9·9	1·29	1·25	2·97	9·21	13·52	—4·31	33·45	41·00	—7·55	4·3	4·1	Saugor Island ...	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
84	3·4	0·11	1·60	3·01	4·30	13·32	—9·02	33·54	37·54	—4·00	2·7	4·2	Midnapore	Midnapore	
88	7·7	1·98	1·10	2·39	7·59	12·45	—4·86	35·80	37·47	—1·58	3·2	4·0	Calcutta ...	24-Pergunnahs... ... Howrah ... ... Hooghly	
86	9·3	0·57	0·47	2·35	5·53	11·48	—5·95	43·09	33·53	+9·57	2·7	4·1	Burdwan ...	Burdwan	
91	8·4	1·58	1·04	3·13	4·80	13·68	—8·88	37·65	38·95	—1·30	2·3	4·2	Bankoora ...	Bankoora	
90	7·9	1·36	2·28	2 53	9·99	12·37	—2·38	44·97	37·37	+7·60	3·3	4·1	Raneegunge ...	Beerbhoom ... ... West Burdwan ...	
91	9·7	2 22	1·85	2·65	9·65	11·23	—1·58	41·63	34·39	+7·24	3·3	4·2	Berhampore ..	Moorshedabad ...	
?	7·4	1·39	1·32	2·27	7·51	11·41	—3·90	35 12	34·90	+0·22	3·4	4·1	Krishnaghur ..	Nuddea	
91	5·6	2·32	1·36	1·93	8·21	11·42	—3·21	39 17	38·32	+0·85	3·5	3·9	Jessore ...	Jessore ... ... Khoolna	
88	6·3	5·79	7·14	4·26	20·61	22·85	—2·24	98·59	88·85	+9·74	5·0	4·7	Chittagong ..	Chittagong	East Bengal.
				3·02		16·28			57·38			5·0	Demagiri ..	Chittagong Hill Tracts	
89	7·6	1·44	2·59	2·72	11·64	14·64	—3·00	53·46	55·75	—2·29	5 8	4 7	Barrisal ...	Backergunge	
91	4·3	6·43	5·10	3·64	23·23	23 19	+0·04	76·81	78·55	—1·74	6·0	5·0	Noakholly .	Noakholly	
89	6·0	2·04	3·75	2·35	9·11	11·50	—2·39	32·87	40·34	—7·47	3·7	4·1	Furreedpore ...	Furreedpore	
90	9·9	2·09	3·02	2·35	11·52	12·01	—0·49	46·17	43·32	+4·85	4·8	4·2	Dacca ...	Dacca	
90	6·4	3·33	2·23	2·81	9·13	14·90	—5·77	46·82	49·40	—2·58	4·5	4·7	Commillah ...	Tipperah	
94	8·4	3·56		3·13		12·84			48·66		4·0	5·0	Mymensingh ..	Mymensingh	
92	8·0	4·41	2·89	2·94	11·17	10·77	+0·40	45·36	40·99	+4·37	5·3	5 0	Bogra ...	Bogra	North Bengal.
93	8·6	2·05	2·26	2·75	7·81	11·18	—3·37	35·09	36·71	—1·62	6·5	5 1	Serajgunge ...	Pubna	
87	4·4	0·96	1·89	2·53	7·27	10·42	—3·15	49·02	36·38	+12·64	5·3	4·3	Rampore Beauleah	Rajshahye	
90	6·4	6·48	4·50	2·70	16·00	10·91	+5·09	40·98	37·56	+3·42	4 5	4·0	Maldah ...	Maldah	
91	8·7	5 52	3·70	2·55	14·70	10·81	+3·89	51·49	40·54	+10·95	4·6	4·2	Dinagepore ...	Dinagepore	
92	3 4	2·90	4·11	2·91	15·02	11·08	+3 94	60·54	53·97	+6·57	5·8	4·4	Rungpore ...	Rungpore	
99	5·6	11·14	12·52	5·22	33·10	20·62	+12·48	111·62	81·08	+30·54	6·8	5·6	Julpigoree ...	Julpigoree ... ... Cooch Behar	
98	10·0	4·98	7·01	5·23	29·22	25·68	+3·54	126·27	93·21	+33·06	7·0	5·6	Darjeeling ...	Darjeeling Hill Tracts	
96	9·3	5·07	6·44	2·95	17·43	12·51	+4·92	58·88	40·79	+18·09	5·6	3·8	Purneah ...	Purneah ... ... North Bhagulpore ...	North Behar.
93	7·4	5·13	5·41	1·87	12·88	9·46	+3·42	43·10	29·69	+13·41	6 0	3·7	Mozufferpore ...	Mozufferpore	
92	7·6	9·13	6·09	2·35	14·75	9·78	+4·97	49·74	30·70	+19·04	5·7	3·8	Durbhunga ...	Durbhunga	
88	8·9	9·02	7·73	2·18	10·88	11·29	—0·41	53·61	32·92	+20·69	5·5	3·4	Motihari ..	Chumparun	
93	5·4	2·70	3·42	2·48	14·46	9·51	+4·95	43·94	29·21	+14·73	4·0	3·7	Chupra ...	Sarun	
93	7·7	5·95											Denree ...		
93	9·0	4·83	4·42	2·42	13·43	10·90	+2·53	40·78	28·11	+12·67	5·8	3·5	Buxar ...	Shahabad	South Behar.
92	4·4	2·78											Arrah ...		
90	8·9	10·53	6·46	2·66	20·06	11·16	+8·90	51·68	30·39	+21·24	5·8	4·0	Gya ...	Gya	
91	9·2	8·27	6·70	2·36	14·03	9·87	+4·16	39·16	29·53	+9·65	5·8	3·9	Bankipore ...	Patna	
90	9·0	5·69	3·95	2·10	13·20	10·39	+1·91	35·91	30·59	+13·32	5·6	3·6	Bhagulpore ...	South Bhagulpore ... Monghyr	
83	5·3	0·75	2·40	2·60	13·35	11·16	+1·19	45·77	35·55	+10·22	5·0	4·0	Doomka ...	Sonthal Pergunnahs...	
92	10·0	3·13	1·75	3·23	9·61	13·51	—3·90	39·86	36·53	+3·39	3·3	4·8	Hazaribagh ...	Hazaribagh	Chutia Nagpur.
87	9·3	3·00	5·44	2·84	14·26	12·72	+0·54	36·98	34·84	+4·14	5·7	4·4	Ranchi ...	Lohardugga	
			0·56	2·37	7·52	13·59	—5·07	32·05	34·49	—2·44	3·0	4·2		Manbhoom	
88	8·0	0·42	0·23	2·19	3·20	13·23	—10·03	34·73	38·41	—13·68	3·0	5·0	Chyebassa ...	Singhbhoom	
96	10·0	7·89											Sibsagar ...		Assam.
93	9·4	2·77											Dhubri	Assam	
92	9·2	4·12											Silchar		

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amounts represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
ten years. The means of the district are the numerical average of the rainfall returns received in the district, i.e. from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 29th of August 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1890.	Average rainfall from 16th May to date.
			Saturday, 23rd August.	Sunday, 24th August.	Monday, 25th August.	Tuesday, 26th August.	Wednesday, 27th August.	Thursday, 28th August.	Friday, 29th August.	Number of rainy days.	Rainfall of week.				
Orissa ...	Pooree ...	Pooree ...	0·50	.....	.....	.....	0·21	0·06	1·15	4	2·02	12·05	8·44	37·99	28·31
		Khurdah ...	.....	.....	.....	0·51	0·22	0·06	0·26	4	1·05	3·80	11·67	42·99	30·09
		Banpur ...	.....	0·20	0·46	2·07							10·95		29·62
		False Point ...	1·48	0·09	.....	.....	0·17	0·41	0·02	5	2·17	10·60	13·14	35·58	28·00
		Gop ...											?		?
		Satpara ...	.....	.....	0·18								?		?
		Pipli ...													
	Cuttack ...	Jagatsingpore ...	.....	.....	.....	0·82	0·42	0·10	0·02	4	1·36	9·85	9·76	35·09	28·43
		Banki ...	0·20	.....	.....	1·50	3·09	.....	.....	3	4·79	10·59	9·87	39·84	31·88
		Cuttack ...	0·65	.....	.....	.....	1·20	0·60	1·80	4	4·25	13·07	10·60	49·68	38·28
		Kendrapara ...	0·17	.....	.....	1·31	.....	0·03	1·71	4	3·22	8·83	12·01	28·41	35·04
		Jajpore ...	.....	.....	.....	.....	.....	.....	0·67	1	0·67	5·49	10·03	31·36	35·81
		Dharmsala ...	.....	.....	.....	.....	.....	1·15					?		?
		Salipore ...	.....	.....	0·15	0·10							?		?
	Balasore ...	Chandbali ...	0·25	.....	.....	.....	.....	.....	0·61	2	0·86	6·15	10·48	29·20	32·72
		Bhuddruck ...	0·18	.....	.....	.....	.....	.....	0·40	2	0·58	4·61	9·97	30·38	34·00
		Soorah ...	.....	.....	.....	0·25	.....	0·22	0·06	3	0·53	9·39	10·54	34·07	32·75
		Balasore ...	0·01	.....	.....	.....	0·03	.....	0·04	3	0·08	7·87	11·91	33·53	37·40
		Jellasore ...	0·10	.....	.....	.....	.....	.....	0·12	2	0·22	8·36	10·32	32·11	35·17
		Baripodah ...											12·21		37·19
South-West Bengal.	Midnapore ...	Contai ...	1·04	.....	.....	0·09	.....	0·28	.....	3	1·41	6·63	13·04	30·45	39·67
		Saugor Island ...	0·14	.....	.....	0·36	0·09	0·07	0·63	5	1·29	9·70	14·33	33·15	43·36
		Tumlook ...	.....	.....	.....	0·80	0·10	0·10	1·60	4	2·60	5·90	13·26	38·00	36·87
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·34	11·75	32·19	35·01
		Ghattal ...	.....	.....	0·09	0·52	.....	0·04	1·55	4	2·20	3·65	14·97	32·08	40·75
		Kukrahaty ...	1·57	.....	0 05	.....	0·38	.....	0·13	4	2·13	7·51	?	25·72	?
		Garbetta ...	.....	0·16	.....	.....	.....	.....	.....	1	0·16	2·91	?	33·43	?
	24-Pergunnahs	Diamond Harbour ...	0·07	.....	0·30	.....	0·52	0·09	0·06	5	1·04	11·31	13·19	36·76	30·99
		Canning Town	0·48	.....	.....	.....	0·34	.....	0·35	3	1·17	13·72	?	42·58	?
		Alipore Jail ...	1·07	.....	.....	.....	0·90	.....	0·15	3	2·12	7·88	12·81	37·55	39·25
		Barrackpore...	.....	.....	0·05	.....	.....	.....	0·30	2	0·35	5·43	11·66	30·49	36·07
		Dum-Dum ...	0·52	.....	0·37	.....	.....	.....	0·56	3	1·25	8·04	12·26	31·36	36·98
		Baraset ...	0·10	.....	.....	.....	.....	.....	0·28	2	0·38	7·28	11·58	31·79	34·87
		Busserhat ...	0·30	.....	.....	.....	.....	0·68	0·87	3	1·85	10·57	12·47	42·28	39·96
	Howrah ...	Howrah ...	0·42	0·03	0·37	.....	0·80	.....	0·07	5	1·69	8·65	11·72	33·72	36·50
		Mohesreka ...	0·12	.....	0 23	.....	.....	0·25	0·28	4	0·88	6·43	12·89	43·35	38·06
		(*Goloberiah*)													
	Hooghly ...	Serampore ...	.....	.....	0·02	.....	0·10	.....	0·28	3	0·40	5·87	12·01	31·79	36·70
		Hooghly ...	.....	.....	0·63	.....	.....	.....	0·16	2	0·79	6·83	11·67	32·07	36·60
		Jehanabad ...	.....	.....	0·66	0·26	0·02	0·35	0·04	5	1·33	8·98	15·42	43·98	40·03
	Burdwan ...	Culna ...	... ...	.....	.....	.....	0·07	.....	0·11	2	0·18	4·29	10·82	36·89	32·05
		Burdwan ...	0·09	.....	0·01	.....	... ..	0·45	0·02	4	0·57	6·59	12·30	49·00	34·52
		Cutwa ...	.....	...	.....	.....	.....	0·32	0·34	2	0·66	5·70	11·37	42·47	33·97
		Ranegunge ...	1·24	0·08	.....	0·04	.....	.....	.....	3	1·36	9·41	12·55	43·25	36·77
		Mankur ...	0·91	0·41	.....	.....	0·10	.....	.....	3	1·42	7·35	?	39·47	?
	Bankoora ...	Bankoora ...	0·43	0·11	.....	.....	0·21	.....	0·83	4	1·58	4·25	13·51	41·72	37·59
		Bishenpore ...	0·78	0·06	.....	.....	.....	.....	.....	2	0·84	3·52	14·51	38·39	38·94
		Maliara ...	0·82	.....	.....	.....	.....	... ..	.....	1	0·82	7·37	13·16	46·68	37·24
		Khatra ...	0·72	.....	.....	.....	... ..	.....	0·20	2	0·92	4·02	13·53	26·73	41·90
		Indas ...	.....	0·05	0·71	.....	0·16	.....	0·96	4	1·88	5·75	?	46 61	?
		Kotalpore ...	.....	.....	1·43	.....	0·52	.....	0·01	3	2·56	6·30	?	53 05	?
		Anda ...	... ..	0·10	.....	.....	.....	.....	.....	1	0·10	2·57	?	34·73	?
		Gangajalghati	.....	0·52	.....	.....	.....	.....	.....	1	0·52	7·05	?	49·17	?
		Raipore ...	0·45	0·84	.....	0·45	.....	0·08	0·42	5	2·02	6·17	?	37·89	?
		Senemukhi ...	1·36	0 54	0·15	0·51	.....	.....	.....	4	2·56	6·44	?	39·23	?
	Beerbhoom ...	Bh. Soory ...	2·78	0·77	0·94	... ...	.....	.....	0·01	4	4·50	8·02	13 11	46·09	38·41
		Hetampore ...	0·11	.....	.....	.....	.....	0·20	.....	2	0·31	6·35	11·79	38·94	39·26
		Rampore Haut	2·10	0·65	.....	0·15	.....	.....	0·06	4	2·96	15·61	13·04	50·72	34·97
		Soipore ...	1·38	.....	.....	.....	.....	0·29	.....	2	1·87	8·66	?	41·95	?
		Murarai ...											?		?
	Nuddea ...	Ranaghat ...	.....	.....	.....	0·08	.....	.....	1·06	2	1·14	5·55	12·02	34·87	34·66
		Kishnaghur ...	0·20	.....	0·13	.....	0·61	.....	0·56	4	1·50	8·74	10·62	41·29	32·28
		Chooadanga ...	0·25	... ..	0·15	.....	0·12	.....	0·68	4	1·20	8·18	11 57	30·68	35·54
		Meherpore ...	.....	.....	0·40	.....	.....	.....	0·20	3	0·60	7·66	11·55	35·23	34·36
		Koushtea ...	0·14	0·36	0·96	0·05	.....	.....	0·04	5	2·15	7·47	11·29	33·53	37·55
	Khoolna ...	Satkhira ...	0·12	0·01	.....	.....	0·21	0·03	1·02	5	1·39	8·98	11·98	40·83	40·60
		Bagirhat ...	.....	.....	0·17	.....	... ...	0·35	0·10	3	0·62	7·63	13·13	49·42	44·36
		Khoolna ...	.....	.....	0·40	.....	0·07	.....	0·86	3	1·33	6·52	11·41	39·28	38·63
		Nabipur ...	0 25	... ..	.....	.....	1·65	1·40	1·15	4	4·45	15·05	?	50·87	?
		Rampal ...	1·02	0·21	0·06	.....	.....	.....	.....	3	1·29	9·51	?	46·93	?
	Jessore ...	Narail ...	0·03	.....	.....	.....	.....	.....	0·72	2	0·75	8·29	10·28	37·45	33·43
		Jessore ...	0·03	0·02	0·40	0·09	0·56	0·03	1·20	7	2·32	12·20	11·80	48·25	39·43
		Jhenidah ...	.....	.....	0·40	.....	.....	.....	.....	1	0·40	5·12	11·98	37·67	37·66
		Magoorah ...	0·07	.....	0·27	1·09	0·50	10·10	0·70	6	2·73	10·90	9·40	36·45	35·53
		Bongong ...	.....	.....	.....	.....	1·30	.....	.....	1	1·30	6·14	19·52	29·85	35·58
	Moorshedabad	Kandi ...	1·30	.....	0·22	.....	.....	.....	0·22	3	2·24	10·15	11·04	43·49	35·15
		Berhampore ...	1·70	0·14	.....	0·07	.....	0·31	.....	4	2·22	9·94	11·58	41·74	34·37
		Lalbagh ...	1·02	0·03	0·05	.....	0·18	.....	.....	4	1·28	9·73	11·52	45·89	33·29
		Azimgunge ...	.....	.....	1·10	.....	0·84	.....	0·10	3	2·04	8·03	11·69	40·19	34·87
		Jungipore ...	0·95	.....	0·36	.....	.....	0·12	0·20	4	2·13	10·55	11·09	38·18	33·87
		Lalgola ...	.....	.....	0·45	.....	0·75	.....	.....	2	1·20	9·49	10·52	43·90	34·82
		Jiagunge ...											?		?
		Akhriguni ...	0·51	0·13	0·80	.....	.....	.....	.....	3	1·44	7·79	?	42·10	?
		Patikabari ...											?		?
East Bengal	Chittagong ...	Cox's Bazar ...	1·45	0·50	3·90	.....	0·63	1·80	0·20	6	7·88	23·91	26·47	110·33	106·40
		Chittagong ...	4·90	1·14	0·31	.....	.....	0·05	.....	4	6·40	17·30	19·19	86·84	71·21
		Kutubdia ...	4·50	1·25	1·35								?		?
		Satkanya ...	3·61	0·30	.....	.....	0·04	0·24	0·04	5	4·53	15·97	?	65·72	?
	Chittagong Hill Tracts	Rangamati ...	0·27	0·27	0·10	0·24	0·19	0·58	1·09	7	3·04	15·34	17·69	56·07	60·14
		Ruma ...											19·84		54·54
	Chittagong	Patuakhally ...	1·00	0·50	0·85	0·25	.....	0·25	0·75	6	3·60	14·70	15·69	60·61	64·24
		Perozepore ...	0·33	0·44	0·16	0·35	.....	0·14	0·29	6	1·46	8·18	14·21	50·25	50·20
		Burrisal ...	0·39	.....	0·42	0·60	.....	.....	0·13	4	1·54	8·41	11·21	51·15	46·20
		Khola ...	1·39	0·60	0·93	0·20	0·11	0·17	0·44	7	3·74	15·51	19·63	53·48	60·27

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 29th of August 1890 —contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 23rd August.	Sunday, 24th August.	Monday, 25th August.	Tuesday, 26th August.	Wednesday, 27th August.	Thursday, 28th August.	Friday, 29th August.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
BENGAL coast.		*Gourmaddi* ...	.....	0·70	0·20	.....	.....	0·22	0·75	4	1·87	5·66	?	31·93	?
		Baephal ...	1·50	0·71	0·15	0·17	.....	0·26	1·87	6	4·66	14·14	?	54·87	?
	Noakholly ...	Noakholly ...	2·11	0·08	0·39	2·85	0·17	0·13	0·53	7	6·26	19·59	23·73	68·58	78·47
		Feuny ...	2·00	0·15	0·05	.....	.....	1·72	0·20	5	4·12	20·87	22·04	85·04	78·57
		Harishpore ...	1·90	2·80									?		?
		Ramganj ...	0·65	0·10	.....	.....	0·20	.....	0·50	4	1·45	11·75	?	56·41	?
	Furreedpore	Madaripore ...	.....	.....	1·50	0·45	.....	.....	3·60	3	5·55	7·41	11·53	30·01	41·19
		Furreedpore...	0·65	.....	0·03	.....	0·38	1·45	2·74	5	5·25	14·34	12·46	37·90	41·89
		Goalundo ...	.....	0·24	.....	.....	0·15	.....	0·06	3	0·45	5·59	10·52	29·79	37·97
	Dacca ...	Munshigunge	0·10	.....	.....	0·45	0·33	.....	2·05	4	2·93	11·53	13·95	49·71	49·78
		Dacca ...	0·26	.....	0·17	0·10	.....	0·04	1·72	5	2·29	10·40	11·94	45·64	42·88
		Narainguge	0·18	.....	0·06	1·95	0·11	... ..	2·32	5	4·62	14·10	11·64	55·13	44·38
		Manickgunge	0·04	0·09	.....	0·89	... .	0·29	1·74	5	2·24	10·03	10·64	43·16	36·06
		Joydebpore ...	0·23	0·12	0·26	1·30	0·12	1·43	2·46	7	5·95	13·07	?	50·86	?
	Hill Tipperah	Agartola ...	0·20	0·15	.....	0·15	0·32	.....	0·57	5	1·29	7·19	12·18	47·29	42·72
	Tipperah ...	Comilla ...	0·75	0·16	0·35	0·80	0·23	0·20	1·60	7	4·09	11·77	16 72	53 23	57·30
		Chandpore ...	0·20	.....	0·82	.....	.....	.....	0·42	3	1·44	11·56	19·13	45·96	54·69
		Brahmunberia	0·18	.....	.....	0·14	.....	.....	1·76	3	2·08	5·96	11·03	40·70	42·89
		Ramchandrapore ...	.....	.....	0·47	0·22	0·16	0·18	0·32	5	1·35	12·15	?	59·14	?
		Nasirnagar...	.....	.....	.....	0·50	.....	.....	0·60	2	1·10	2·60	?	27·61	?
		Daudkandi ...	.....	.....	.....	.....	.....	0·40	.....	1	0·40	3·59	?	21·62	?
		Kasba ...											?		?
		Laksham ...	.....	.....	2·60	.....	.....	.....	1·65	2	4·25	12·80	?	61·70	?
	Mymensingh...	Kishoreguuge	.....	0·17	0·55	.....	.....	0·47	0·90	4	2·09	10·50	12·30	50·44	49·35
		Atia (*Tangail*)	.....	0·51	.....	.....	.....	.....	2·85	2	3·36	6·98	11·30	46·78	39·18
		Mymensingh	0·71	0·14	0·47	0·21	0·32	0·72	0·97	7	3·54	11·84	12·85	58·20	52·21
		Jamalpore ...	.....	.....	0·45	0·47							12·67		44·37
		Netrokona ...	.....	0·40	0·38	1·02	.....	1·39	1·43	5	4·71	17·07	15·13	73·82	58·27
		Subornakhali	.....	0·20	.....	0·30	... ..	.....	0·50	3	1·00	3·77	?	33·08	?
		Durgapore ...	0·50	0·50	0·00	.....	2·30	0·50	1·20	6	5·60	24·18	?	91·36	?
		Sherpore Town	0·86	0·09	.....	.....	0·95						?		?
		Dewanganj ...	1·15	.....	.....	.....	.....	1·55	1·50	3	4·20	8·68	?	51·19	?
NORTH BENGAL.	Pubna ...	Pubna ...	0·19	0·06	0·89	0·66	0·07	.....	0·64	6	2·49	8·43	11·65	32·04	36·97
		Serajgunge ...	0·25	0·50	0·20	0·07	0·13	0·27	0·60	7	2·02	7·17	10·69	38·38	37·02
	Bogra ...	Sherepore ...	1·27	0·25	.....	0·57	.....	0·21	0·72	5	3·02	9·92	11·53	44·70	42·07
		Nowkhilla ...	0·73	0·24	.....	0·20	.....	.....	1·45	4	2·42	9 84	9·83	42 92	37·88
		Bogra ...	2·26	0·56	0·72	0·30	0·05	0·14	0·18	7	4·21	13·07	11·30	44 73	44·76
		Panchbibi ...	0·28	0·57	0·77	.....	0·17	.....	0·11	5	1·90	11·83	10·43	48·99	39·19
	Rajshahye ...	Beauleah ...	0·15	0·39	0·11	0·12	0·09	0·07	.....	6	0·93	6·18	11·31	49·36	35·76
		Nattore ...	1·35	0·21	.....	0·50	0·82	0·02	0·05	6	2·95	9·82	11·08	56·13	36·78
		Naogaon ...	0·82	.....	0·06	.....	.....	0·55	0·35	4	1·78	5·78	8·87	41·55	30·61
		Lalpore ...	.....	.....	0·70	.....	0·17	2·00	0·15	4	3·02	7·53	?	32·10	?
		Mande ...	0·10	0·30	.....	.....	.....	.....	0·50	3	0·90		?		?
	Maldah ...	Maldah ...	0·06	2·92	0·06	0·27	.....	.....	3·17	5	6·48	18·00	9·24	42·68	34·25
		Chanchal ...	0·90	0·38	.....	0·45	.....	.....	0·80	4	2·53	14·00	12·59	39·27	40·82
		Gajol ...	1·33	3·17	0·16	0·18	.....	.....	2·17	5	7·01	23·11	?	55·64	?
		Sibganj ...	0·65	0·56	0·04	0·07	.....	.....	0·05	5	1·37	7·70	?	41·55	?
	Dinagepore ...	Mohadebpore	0·10	0 93	0·45	.....	.....	0·25	0·26	5	1·99	5·55	12·77	39·46	40·75
		Churamon ...	0·72	0·68	.....	.....	.....	.....	1·81	3	3·21	16·05	9·27	53·18	35·97
		Raigunge ...	0·48	1·04	0·72	.....	0·38	.....	0·65	5	3·27	22·19	11 57	61·17	41·98
		Dinagepore ..	0·14	3·80	0·03	.....	0·23	.....	0 84	5	5·04	16·04	11·57	56·61	46·49
		Balooghat	2·27	0·36	0·37	1·25	.....	.....	0·72	5	4·97	13·06	8·89	47·06	37·55
		Thakoorgaon	2·84	3·50	0·48	.....	.....	1·84	0·45	5	8·11	21·56	?	69·64	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	3·00	1·85	.....	.....	.....	1·00	0·30	4	6·35	15·21	9·75	59·93	44·39
		Rungpore ...	1·44	0·05	1·23	0·06	0·16	0·01	0·18	7	3·13	11·13	11·07	52·01	54·03
		Kurigram ...	1·00	0·14	0·12	.....	0·01	.....	0·30	5	1·57	9·76	9·52	57·28	54·93
		Bagdogra (*Nilphamari*)	0·58	2·11	0·29	0·11	0·08	0·05	2·15	7	5·37	18·94	13·95	71·93	62·55
		Ulipore ...	.....	.....	2·10	.....	.....	.....	0·36	2	2·46	15·61	r	53 80	?
	Julpigoree ...	Julpigoree ...	5·20	1·40	1·62	0·32	0·10	1·95	0·36	7	10·95	26·82	22·57	114·45	84·71
		Alipore Doar	4·59	1·12	2·60	0·66	2·45	4·26	4·66	7	20·33	42·17	?	139·23	?
		Fallacotta ...	1·62	1·83	0·51	.....	1·58	2·45	0·35	6	8·34	17·13	?	105·02	?
		Debiganj ...	2·03	2·35	0·77	.....	1·25	1·48	2·13	6	10·01	24·73	?	80·91	?
		Bhagatpore (Nagrakatta)	0·63	0·49	0·65	4·03	2·70	2·19	2·04	7	13·73	32·34	?	125·33	?
	Cooch Behar..	Dinhatta ...	0·79	0·37	0·10	0·07	.....	0·12	0·80	6	2·25	22·15	16·47	83·02	69·73
		Cooch Behar...	0·64	0·82	3·30	0·67	1·18	3·99	2·75	7	13·35	40·12	19·86	121·82	88·17
		Mekiligunge...	2·13	5·35	1·77	0·11	1·13	0·54	4·23	7	18·14	33·85	21·90	109·65	76·32
		Mathabhanga...	2·70	1·97	0·58	0·32	2·14	3·37	6·63	7	17·91	40·58	22·20	128·69	84·44
	Darjeeling Hill.	Buxa ...	6·36	1·96	0·81	0·87	0·78	7·01	0·98	7	18·67	47·87	29·70	162·81	146·66
		Silliguri ...	0·75	6·83	0·14	0·70	0·69	2·10	0·28	7	5·49	23·86	21·16	132·38	82·03
		Darjeeling ...	0·74	0·70	0·87	0·62	1·12	0·18	0·09	7	4·32	26·39	24·03	119·79	81·02
		Kalimpong ..	0·55	0·40	0·04	0·19	1·27	0·44	0·28	7	3·17	18·72	17·83	144·04	65 10
		Kurseong ...	0·37	0·35	0·30	0·05	1·50	0·40	0·58	7	4·85	35·66	?	154·04	?
N BEHAR	Purneah ...	Kissengunge...	1·45	3·15	.....	1·93	0·85	1·67	3·65	6	12·70	25·61	14·49	73·49	50·41
		Arrareah ...	2·60	0·58	.....	0·83	0·94	1·40	0·50	6	6·35	18·05	12·43	58·86	44 55
		Purneah ...	0·33	0·89	1·37	0·09	0·35	0·01	2·03	7	5·07	16 80	13·07	59·46	41·48
		Gondwara ...	.....	.....	.....	.....	.....	3·00	.....	1	3·00	12·73	?	42·68	?
		Baisarampore	0·56	1·10	0·50	0·08	0·17	0·20	1·25	7	4·55	30·72	?	71·91	?
		Motiari ...	.....	.....	0·23	.....	0·33	.....	2·10	3	2·67		?	83·96	?
		Kaliaganj ...	1·41	0·96	0·31	1·46	0·66	4·00	0·07	7	8·87	25·67	11·16	81·01	33·69
	North Bhagulpor	Maddapore ...	.....	.....	2·35	0·90	.....	.....	0·80	3	4·05	11·10	11·40	51·85	33·97
		Scopool ...	0·23	1·23	0·96	0·22	.....	0·10	1·30	6	4·05	15·75	?	39·98	?
		Protabganj ...	.....	.....	.....	.....	.....	.....	2·50	1	2·50	10·37			
	Durbhunga ...	Tajpore ...	1·43	0·55	1·13	0·14	0·35	.....	1·74	6	5·33	11·07	5·50	42·52	30·25
		Durbhunga ...	3·35	2·92	.....	.....	0·06	0·21	1·37	6	9 13	15·66	10·36	50·99	31·43
		Madhubani ...	0·34	1·88	.....	0·19	.....	0·25	1·45	5	3·82	17·55	9·48	55·08	30·42
		Bahera ...	1·30	3·72	0·14	0·06	.....	0·20	0·30	6	5·72	8 05	?	45·41	?
		Rashera ...	0·42	1·23	0 23	1·55	.....	1·35	0·05	6	5·32	14·00	?	40·46	?
	Monsufferpore	Sitamarhi ...	2·79	0·44	0·22	0·82	0·06	0·03	1·74	7	6·12	13·41	9·66	41·73	29·75
		Monsufferpore	4·54	0·11	1·09	0·03	.....	.....	1·26	5	6·99	15·59	9·27	48·61	30 05
		Hajipore ...	0·75	0·36	0·33	1·06	0·06	.....	0·37	6	3·12	9·27	9·46	38·94	29·32
		Pare ...	1·50	0·60	.....	0·18	.....	0·35	0·50	5	3·13	18·43	?	50·88	?
		Mahua ...	2·23	0·42	0·11	.....	.....	1·20	.....	4	4·15	9·64	?	39·03	?
		Simhar ...	3·10	1·50	.....	.....	0·70	.....	1·49	4	6·70	9·25	?	36·93	?
		Pupri ...	1·60	1·18	0·25	0·05	.....	.....	2·50	5	5·48	11·21	?	43·83	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 29th of August 1890—concl

Meteorological Division.	District.	Station.	Rainfall. Saturday, 23rd August.	Sunday, 24th August.	Monday, 25th August.	Tuesday, 26th August.	Wednesday, 27th August.	Thursday, 28th August.	Friday, 29th August.	Total. Number of rainy days.	Total. Rainfall week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Averag rainfa from 1 May date
North Behar —*concluded.*	Chumparun...	Motihari ..	1·68	4·46	0·48	.....	.....	.....	2 18	4	8·80	12·66	11·01	54·94	
		Bettiah ...	0·98	1·10	0·05	0·41	0·12	2·24	1·75	7	6·65	15·08	11·54	52·17	
		Bagaha ...	0·14	0·32	0·35	1·12	.....	0·30	1·55	6	3·78	20·35	?	67·50	
		Burhurwa ...	1·24	0·39	0·01	0·42	0·06	.....	0·83	6	2·94	10·66	?	47·03	
	Sarun ...	Gopalgunge ...	1·10	0·25	.....	2·31	.....	0·80	.....	4	4·55	17·87	9·08	43·61	
		Sewan	0·21	1·01	.....	.....	0·31	0·98	.....	5	2·51	14·33	9·02	46·28	
		Chuprah ...	0·10	.....	1·81	0·03	.....	0·11	.....	4	2·05	10·03	9·53	40·78	
South Behar	Shahabad	Buxar	2·15	0·11	.....	1·73	0·25	.....	1·62	5	5·86	16·59	9·63	42·21	
		Dehree ..	1·42	0·22	0·79	2·39	0·28	.....	0·85	6	5·95	14·22	12·17	37·47	
		Bhaboouh ...	0·48	0·90	1·60	0·20	0·04	.....	0·05	6	3·27	10·58	11·26	32·89	
		Sasseram ...	1·80	0·13	1·02	1·32	...	0·17	0·54	6	4·98	12·82	11·45	36·59	
		Arrah ...	0·24	0·06	...	1·55	0 07	0·03	0·09	6	2·04	12·87	10·05	54·60	
		Mohaniah ..	0·50	2·10	0·41	.....	.....	.....	.....	3	3·01	9·31	?	29·47	
	Gya	Aurungabad...	5·90	0 28	0·57	0·88	0·36	.....	1·75	6	9·74	29·70	11·97	53·87	
		Gya ...	2·92	0·01	0·04	1·05	2·02	0·52	3·97	7	10·53	20·95	10·86	53·68	
		Nowadah ...	0·67	...	0·71	0·28	0·32	1·07	.....	5	3·05	14·86	10·41	50·61	
		Jehanabad ...	1·41	0·07	.....	0·15	0·23	.....	0·66	5	2·52	14·70	11·35	48·36	
		Arwal ..	1·40	.. ..	... ..	1·20							?		
		Daudnagar ...	0·50	1·30	0·20	0·30	0·20	0·50	.....	6	3·00	8·95	?	24·95	
		Sherrghati ..	0·20	0·36	0·40	1·90	.. ...	0·40	.....	6	4·26	14·46	?	31·13	
		Rajauli	0·80	.. ...	0·25	0·60	0 65	0·08	0·80	6	3·78	14·91	?	41 32	
		PakriBarawan	4·10	0·30	.....	.....	.....	1·10	0·70	4	6·20	14·10	?	47·58	
	Patna	Patna ...	1·08	0·54	2·72	3·54	0·12	.....	0·27	6	8·27	17·88	9·75	44·06	
		Dinapore	1·05	0·60	2·41	3·42	.....	.....	0·95	5	8·43	16·29	10·55	40·62	
		Behar ...	0·60	0·36	0·47	0·14	0·33	0·41	1·56	7	3·87	9·94	10·26	37·81	
		Barrh ...	0·80	.....	1·08	3·00	.....	0·45	0·30	5	6·23	12·49	8·98	34·20	
		Bickram ...	0·80	0·07	.....	4·15	0·34	.....	0·10	5	5·46	14·90	?	51·34	
		Hilsa ...	0·59	2·27	0·44	0·11	0·29	0·13	0·49	7	4·32	11·55	?	41·92	
	Monghyr ...	Begoosorai ...	1·50	0·10	.....	0·42	0·30	0·15	2·10	6	4·57	10·37	9·52	36·17	
		Monghyr	0·41	0·29	... ..	0·61	0·14	.....	1·45	5	2·90	9·93	11·59	45·66	
		Jamui ...	0·26	0·16	1·10	0·20	0·15	... ..	1 23	6	3·10	11·99	10·96	53·13	
		Gogri ...	.....	.....	.....	... .	.....	3·25	2·32	2	5·57	21·16	?	64·51	
		Sheikpura ...	.....	.....	1·10	0·21	.....	.....	0·95	3	2·28	14·83	?	41·66	
	South Bhagulpore	Bhagulpore ...	0·06	0·22	0·46	0·22	.....	.....	5·01	5	5·97	18·52	9·33	49·58	
		Banka	0·70	1·41	0·04	0·45	0·11	.....	0·51	6	3·22	10·02	10·07	34·98	
		Kalgong ...	0·11	0·30	0·60	0·50	0·40	.....	0·55	6	2·51	10·53	?	48·29	
		Bangaon ...	.....	5·41	.....	.....	.....	.....	3·40	2	8·81	15·16	?	54·94	
	Sonthal Pergunnahs.	Rajmehal ...	0·09	0·77	0·09	1·94	0·16	.....	0·44	6	3·46	11·47	9·16	37·53	
		Godda ...	0 06	0·90	0·10	...	0·15	.....	0 13	5	2·24	10·80	9·03	41·44	
		Pakour	0·08	1 60	0·03	0·05	.....	.....	.....	4	1·76	11·78	10·54	51·17	
		Nya Doomka	0·08	0·41	0·25	0 01	.....	.....	.. ...	4	0·75	19·79	13·31	54·84	
		Deoghur	1·71	1·14	0·38	0·12	.....	.....	0·47	5	3·42	9·84	11·73	39·90	
		Jamtara ...	0·21	0·09	0·01	0 26	0·21	.....	2 01	6	2·79	10·94	12·19	40·75	
		Mohagama .	0·56	0·12	1·15	0·88	0·50	... ..	0·15	6	3·36	15·55	?	42·32	
		Namsat ...	.....	0·45	.....	0·21	.....	0·11	.....	3	0·77	5·27	?	22·84	
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	1·20	0·09	.....	.....	.....	.....	0·13	2	1·42	9·57	11·90	45·53	
		Hazaribagh	0·34	0·48	0·12	1·38	0·04	.....	0·79	6	3·13	10·99	12·87	40·86	
		Semtagurah	1·00	0·92	.....	0·15	0·18	.....	.....	4	2·25	8·33	11·66	30·99	
		Mahudi Hills											14·22		
		Jhoomra Hills											16·91		
		Barhi ...	0·26	0·06	0·02	0·39	0·36	5·10	0·84	7	7·05	16·01	?	42·53	
		Chatra ...	0·75	1·20	0·55	1·05	0 50	0·85	1·16	7	6·06	16·05	?	41·47	
		Karagdeha ...	0·24	0·40	1·71	0·05	.....	.....	0·02	5	1·42	13·73	?	48·37	
		Kamghar ...	.....	.....	.....	.....	2·45	.....	.....	1	2·45	16·00	?	31·66	
	Lohardugga ...	Lohardugga ...	7·07	0·65	2·09	0·26	1·00	0·80	0·18	7	10·05	22·18	13·62	45·50	
		Ranchi ...	0·60	0·64	0·60	0·24	.....	.....	.....	4	2·05	7·76	13·64	31·74	
		Palamow ...	0·30	0·42	0·50	2·71	.....	0·10	0·20	6	4·23	12·87	10·92	39·74	
		Silli ...	.....	1·60	0·40								?		
		Balumat ...											?		
		Hosseinabad...	.....	1·48	1·30	.....	.....	.....	1·31	3	4·09	14·31	?	31·91	
		Garwah ...	0·25	0·75	1·62								?		
	Singbhoom	Chyebassa ...	0·06	.. ...	.....	.....	0·07	0·10	.....	3	0·23	3·20	13·23	24·75	
		Chakradharpore.	0·05	0·15	.. ...	0·10	0·10	.....	0·05	5	0·45	4·06	?	19·41	
		Ghatsilla ...	0·41	.....	.....	0·60	.....	.....	.....	2	1·01	5·53	?	36·95	
		Bakaragura...	.....	0·85	.....	0·71							?		
	Manbhoom ...	Purulia ...	0·10	0·28	0·05	.....	.....	.....	.....	3	0·43	3·60	13·04	35·42	
		Gobindpore ...	0·22	0 27	.....	.....	.....	.....	0·19	3	0·68	6·42	12·13	28·67	
		Raghunathpore.	2·00	.....	.....	.....	.....	.....	.....	1	2·00	16·32	?	50·52	
		Burrabhoom	1·62	0·65	0·02	.....	0·07	.....	0·90	5	3·26	8·86	?	36·07	
		Jhalda ...	0·62	1·15	.....	.....	.....	1·75	0·71	4	4·23	17·94	?	47·15	
		Chas ...	0·70	1·05	.....	0·06	.....	.....	.....	3	1·81	14·63	?	39·46	

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of t
are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 2nd September* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 29TH OF AUGUST 1890.

WEATHER conditions have been very similar to those of the previous week: pressure slightly above the normal and subject to small oscillations, temperature uniformly below in the northern and normal on an average in the southern districts, while the rainfall distribution is identical, scattered in Orissa, South-West Bengal, and parts of Chutia Nagpur and East Bengal, and considerably above the normal in North Bengal and Behar. These conditions have been very constant from day to day, and with the exception of a brisk rise of pressure in the middle of the week in the northern districts while the barometer remained steady in the north-west of the Bay, pressure changes have had little or no influence in altering the general distribution. Lowest pressure has generally been over the north-west of the province, and gradients running east and west, accompanied by the normal circulation of winds, south-west in Orissa and Chutia Nagpur, south-east in East Bengal, and easterly elsewhere. At times westerly winds blew in South Behar, but directions in that district have been irregular and velocity at times very low. On the 26th, when pressure rose between a twentieth and a tenth of an inch in all districts except Orissa, where the rise was only about a hundredth of an inch, a depression formed in the north-west corner of the Bay and adjacent land, but it disappeared by the following day, leaving very uniform pressure over the greater part of the province, gradients being somewhat steeper than usual in the east. After the 26th pressure fell slowly, and the distribution at the end of the week was exactly similar to that at the beginning, but wind circulation was much lighter in North Bengal and Behar, and rainfall not so heavy or general.

Pressure—On the 23rd, the first day of the week, was rising slowly in Orissa and South-West Bengal, and falling slowly in the other districts; on the 24th it remained steady and again fell slowly on the 25th, when the distribution was practically normal, but slightly above, the largest excess being less than a twentieth of an inch in Orissa. On the 26th the most important change of the week occurred, after which excess varied from a twentieth of an inch in Orissa to a tenth in North Bengal. During the latter half of the week there was a steady slow fall in all districts except in Behar and Chutia Nagpur, where a brisk rise occurred on the 29th. The distribution at the close of the week was again nearly normal, there being a slight defect in North Bengal, and a small excess elsewhere, largest in the western districts, but nowhere over a twentieth of an inch. Average pressure for the week is about a twentieth of an inch above the normal in Orissa, and elsewhere about three-hundredths.

Temperature—At the beginning of the week was falling in all districts, and the daily means were below the normal by variable amounts ranging up to nearly 5° in Orissa and South Behar. The defect occurred to a greater extent during the day than at night, and the difference from the average maximum temperature for the season was over 6° at False Point and Arrah, while defect in night temperature was only 2·5° and 2·3° respectively. From the 24th to the 28th temperature rose steadily, and by the latter date defect had almost disappeared. On the 29th a general fall again took place, giving defect at nearly all stations; but on this occasion while a large defect occurred in the day temperatures in North Bengal and North Behar, these were nearly normal in South Behar, and minimum temperature was from 3° to 5° below the normal. The means for the week are all below the normal except that for South-West Bengal, where however excess is only a tenth of a degree. Defect in Assam is 2·4°, North Behar 1·4°, South Behar 1·3°, Chutia Nagpur ·9°, Orissa ·8°, East Bengal ·7°, and North Bengal 2°.

Rainfall—As stated above, has been scattered in South-West and East Bengal and Chutia Nagpur, but heavy and general elsewhere, especially during the first two and last two days of the week. Falls in Orissa have been variable: under 1 inch in Balasore, over 2 in Pooree, and over 3 inches at Cuttack and Kendrapara. In parts of Midnapore, Jessore, and Moorshedabad falls are over 2 inches, but elsewhere in South-West Bengal they are generally between 1 and 2 inches. In East Bengal heavy rain fell on the 23rd in Chittagong, Backergunge, and Noakholly, and on the 29th in Furreedpore, Dacca, Tipperah, and Mymensingh, but the total falls for the week are very variable, ranging from half an inch to 6 inches. In Julpigoree, Cooch Behar, and Darjeeling hills general heavy rain has fallen, the heaviest falls being Alipur Dooar 20·3 inches, Mickilgungo and Buxa over 18 inches. In the other districts of North Bengal falls vary from 1 inch to 10 inches. In Behar the distribution is more uniform, at about 4 inches, but sometimes as high as 10 inches. The means for the larger divisions are above the normal in East and North Bengal and Behar and below elsewhere. Excess in North Behar is 3·26, in South Behar 2·12, North Bengal 2·05 inches, and the largest defect is 1·11 inches in South-West Bengal.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 29th of August 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
			Averages for week.				Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
	Highest observed during week.	Lowest observed during week.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	90·4	75·6	86·4	77·8	82·1	—0·8	1·65	2·04	—0·39	3·3	4·0	—0·8	8·31	10·79	34·46	33·93
South-West Bengal ...	90·6	75·4	87·6	78·4	83·0	+0·1	1·37	2·48	—1·11	3·2	4·2	—1·0	7·69	12·16	38·23	37·01
East Bengal	88·1	72·8	85·1	76·8	81·0	—0·7	3·52	2·97	+0·55	5·0	4·8	+0·2	12·75	14·98	56·01	54·12
North Bengal	89·5	74·1	86·7	77·7	82·2	—0·2	5·13	3·08	+2·05	5·6	4·9	+0·7	16·33	13·64	61·52	49·67
North Behar	90·2	73·5	86·1	77·5	81·8	—1·4	5·71	2·45	+3·26	5·4	4·0	+1·4	14·98	10·71	50·76	33·63
South Behar	89·7	72·7	86·1	77·0	81·5	—1·2	4·54	2·42	+2·12	5·5	4·0	+1·5	14·16	10·71	44·38	31·09
Chutia Nagpur	85·9*	68·7*	82·0*	71·0*	76·5*	—0·9*	2·70	2·87	—0·17	4·2	4·4	—0·2	10·71	13·10	37·39	35·86
Assam	90·6	74·5	85·2	76·0	80·6	—2·4										

* Chyebassa not included.

Meteorological Office, Bengal; *The 2nd September* 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 24th to 30th August 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
August ...	24th ...	29·707	83·4	90·0	13·2	76·8	85·6	79·5	·927	76·9	76	
,, ...	25th ...	·708	83·5	89·0	11·0	78·0	83·1	80·5	·940	77·3	71	0·13
,, ...	26th ...	·741	83·3	87·6	8·6	79·0	83·8	81·5	1·046	80·6	90	0·13
,, ...	27th ...	·741	83·9	90·0	12·2	77·8	84·6	79·5	·941	77·4	79	0·90
,, ...	28th ...	·744	82·9	85·9	6·1	79·8	85·6	81·5	1·021	79·9	84	0·09
,, ...	29th ...	·715	83·4	87·0	7·2	79·8	84·1	81·0	1·018	79·8	87	0·09
,, ...	30th ...	·691	83·8	91·0	15·0	76·0	86·8	81·5	1·005	79·4	79	0·62

	Inches.
The mean 10 A.M. pressure of the seven days	29·721
	°
The mean temperature of the seven days	83·5
The extreme variation of temperature	15·0
The maximum temperature	91·0
	%
The mean 10 A.M. relative humidity of the seven days	81
	Inches.
The total fall of rain from 24th to 30th August 1890	1·96

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India; *The 1st September* 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 16th August 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 16th August 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 18·7 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, except 1887 —*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	20·7	22·7	17·9	20·1	21·8	22·4	18·7

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 26th July 1890.	2nd August 1890.	9th August 1890.	16th August 1890.	Towns.	Weeks ending— 26th July 1890.	2nd August 1890.	9th August 1890.	16th August 1890.
Burdwan	12·2	13·7	13·7	15·3	Naraiuganj	29·0	24·8	16·6	33·1
Midnapore	7·7	15·5	13·9	12·4	Chittagong	14·1	4·7	4·7	16·4
Hughli and Chinsurah	23·0	14·8	16·4	6·6	Comillah	15·4	15·4	11·5	11·6
Serampore	23·6	27·5	23·6	23·6	Patna City	12·7	14·9	13·3	13·6
Uttarpara	18·9	18·9	18·9	9·4	Gya	33·5	17·8	21·9	28·7
Howrah	15·5	17·8	14·3	18·3	Arrah	19·1	13·2	20·3	26·3
Bali	14·0	10·5	7·0	7·0	Mozufferpore	13·4	14·6	17·0	18·2
Krishnagar	11·4	5·7	11·4	13·3	Durbhanga	27·5	19·7	29·9	18·1
Ranaghat	12·0	6·0	24·0	6·0	Chupra	11·1	6·0	2·0	12·1
Santipore	10·5	14·0	17·5	14·0	Bhagulpore	18·1	18·1	23·6	25·3
Jessore	6·1	18·4	6·1	.....	Monghyr	41·6	23·5	38·9	40·7
Rampore Beauleah	18·4	31·5	15·8	36·8	Purneah	20·8	10·4	13·9	6·9
Darjiling	22·2	7·4	37·0	22·2	Poori	18·9	6·3	12·6	6·3
Dacca	9·7	11·0	14·9	17·5	Total ...	18·2	15·3	17·4	18·7

It will be seen that last week the highest birth-rate was returned from Monghyr (40·7), and the lowest from Ranaghat (6·). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22·8 per 1,000 of the population. The rate of the week is 8·7 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	51·0	28·4	27·7	26·1	24·5	31·5	22·8

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 26th July 1890.	2nd August 1890.	9th August 1890.	16th August 1890.	Towns.	Weeks ending— 26th July 1890.	2nd August 1890.	9th August 1890.	16th August 1890.
Burdwan	27·5	19·8	13·7	10·7	Naraingani	16·6	16·6	12·4	16·6
Midnapore	17·0	7·7	15·5	17·0	Chittagong	18·3	11·7	9·4	21·1
Hughli and Chinsurah	24·6	26·3	18·1	31·2	Comillah	38·5	26·9	7·7	23·1
Serampore	39·3	51·0	51·0	33·4	Patna City	18·8	13·0	20·1	15·3
Uttarpara	47·2	37·7	9·4	37·7	Gya	37·6	44·4	56·7	56·7
Howrah	13·7	10·9	20·0	19·3	Arrah	29·5	6·4	20·3	13·2
Bali	21·1	14·0	10·5	24·6	Mozufferpore	32·8	15·8	23·1	20·7
Krishnagar	11·4	5·7	11·4	11·4	Durbhanga	25·2	15·5	34·3	27·5
Ranaghat	12·0	24·0	24·0	12·0	Chupra	18·1	11·1	3·0	15·1
Santipore	15·8	17·5	19·3	14·0	Bhagulpore	22·6	14·5	12·7	24·4
Jessore	12·3	12·3	12·3	18·4	Monghyr	25·3	15·4	28·9	21·7
Rampore Beauleah	23·6	15·8	21·0	26·3	Purneah	10·4	13·9	24·3	13·9
Darjiling	22·2	88·9	66·7	66·7	Poori	25·7	33·6	23·1	25·2
Dacca	15·6	27·2	25·3	20·1	Total ...	23·1	19·3	23·3	23·8

It will be seen that last week the highest mortality occurred in the town of Darjiling (66·7), and the lowest in Burdwan (10·7).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Gya	15·0	Darjiling	37·0	Midnapore	12·4	Gya	13·7
Durbhanga	13·4	Rampore Beauleah	23·6	Hughli and Chinsurah	11·5	Bhagulpore	10·9
Santipore	7·0	Gya	21·2				
Mozufferpore	6·1						
Chupra	5·0						
Patna City	2·9						

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·5 from cholera, against 3·6 per 1,000 in the preceding week; 9·4 from fever, against 9·6; 3·9 from bowel-complaints, against 3·5; 5·4 from other causes, against 6·1 in the preceding week. Small-pox and injury exhibit the same ratios as in the preceding week, viz. ·1 and ·4 respectively.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	25·4	Christians	7·5	Under 1 year	163·9
Females	20·0	Hindus	24·0	1 and under 5 years	43·6
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	127	Mahomedans	20·1	5 „ 10 „	17·9
				10 „ 15 „	10·3
				15 „ 20 „	16·1
				20 „ 30 „	13·5
				30 „ 40 „	14·5
				40 „ 50 „	12·5
				50 „ 60 „	16·8
				60 years and upwards	52·2

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 1st September 1890. *Sanitary Commissioner for Bengal.*

1	2	3			4			5			6	7							8							9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.															Sex.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.												
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,663	16,017	34,080	4	6	10	6·1	9·2	15·3	66	...	...	2	2	...	3	7	...	...	3·0	3·0	...	4·6	10·7	13·7	4	3	11·5	9·7	118
Midnapore ...	Midnapore ...	16,927	16,633	33,560	5	3	8	7·7	4·6	12·4	166	...	...	2	8	...	1	11	...	...	3·1	12·4	...	1·5	17·0	15·5	5	6	13·4	16·8	82
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	...	4	4	...	6·6	6·6	No male birth.	...	...	10	7	1	1	19	...	...	16·4	11·5	1·6	1·6	31·2	18·1	11	8	36·1	26·3	137
Serampore ...	Serampore ...	13,559	12,937	26,496	9	3	12	17·7	5·9	23·6	300	...	...	9	5	...	3	17	...	...	17·7	9·8	...	5·9	33·4	51·0	12	5	46·0	20·1	228
	Utterpara	3,046	2,464	5,510	1	...	1	9·4	...	9·4	No female birth.	...	...	2	1	...	1	4	...	...	18·9	9·4	...	9·4	37·7	9·4	2	2	34·1	42·2	81
Howrah ...	Howrah	53,153	37,660	90,813		10	32	12·6	5·7	18·3	220	2	...	15	7	1	9	34	1·1	...	8·6	4·0	·6	5·2	19·5	20·0	18	16	17·6	22·1	79
	Sibli	7,836	6,979	14,815	2	...	2	7·0	...	7·0	No female birth.	...	1	3	2	...	1	7	...	3·5	10·5	7·0	...	3·5	24·6	10·5	4	3	26·5	22·4	118
Nudden ...	Krishnagar ...	13,363	14,114	27,477	1	6	7	1·9	11·4	13·3	16	...	...	4	1	...	1	6	...	...	7·6	1·9	...	1·9	11·4	11·4	2	4	7·8	14·6	53
	Ranaghat	4,628	4,655	8,683	...	1	1	...	6·0	6·0	No male birth.	...	...	1	1	...	...	2	...	...	6·0	6·0	...	...	12·0	24·0	1	1	12·9	11·2	115
	Santipore	13,703	15,979	29,687	4	4	8	7·9	7·0	14·0	100	4	...	1	2	...	1	8	7·0	...	1·7	3·5	...	1·7	14·0	19·3	5	3	19·0	9·8	193
Jessore ...	Jessore	4,830	3,665	8,495	...	...	...	...	...	...	...	...	...	3	...	...	...	3	...	...	16·4	...	...	...	18·4	12·3	2	1	21·5	14·2	151
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	8	6	14	21·0	15·8	36·8	133	...	...	9	1	1	2	13	...	...	23·6	2·6	2·6	5·3	34·2	21·0	8	5	38·6	28·8	134
Darjiling ...	Darjiling	4,579	2,439	7,018	1	2	3	7·4	14·8	22·2	50	...	1	5	2	...	1	9	...	7·4	37·0	14·8	...	7·4	66·7	66·7	6	3	68·1	64·0	106
Dacca ...	Dacca	42,782	37,379	80,161	13	14	27	8·4	9·1	17·5	92	2	...	9	8	..	12	31	1·3	...	5·8	5·2	...	7·8	20·1	25·3	24	7	29·2	9·7	301
	Narainganj ...	7,605	4,956	12,561	6	2	8	24·8	8·3	33·1	300	...	...	2	...	...	2	4	...	...	8·3	...	...	8·3	16·6	12·4	2	2	13·7	21·0	65
Chittagong ...	Chittagong ...	13,340	8,790	22,130	4	3	7	9·4	7·0	16·4	133	...	...	6	2	1	...	9	...	...	14·1	4·7	2·3	...	21·1	9·4	6	3	28·4	17·7	132
Tipperah ...	Comillah	8,153	5,353	13,506	1	2	3	3·9	7·7	11·6	50	...	..	5	...	...	1	6	...	...	19·2	...	...	3·9	23·1	7·7	2	4	12·8	38·9	33
Patna	Patna City ...	78,762	81,475	160,237	22	20	42	7·1	6·5	13·6	110	9	...	20	6	2	10	47	2·9	...	6·5	1·9	·6	3·2	15·3	20·1	30	17	19·8	10·8	183
Gya	Gya	38,290	37,831	76,121	25	17	42	17·1	11·6	28·7	147	22	...	31	10	...	20	83	15·0	...	21·2	6·8	...	13·7	56·7	56·7	41	42	55·7	57·7	96
Shahabad ...	Arrah	20,960	22,505	43,465	13	9	22	15·5	10·8	26·3	144	2	...	3	...	...	6	11	2·4	...	3·6	...	...	7·2	13·2	20·3	1	10	2·5	23·1	10
Mozufferpore .	Mozufferpore ...	23,084	19,658	42,742	7	8	15	8·5	9·7	18·2	87	5	...	7	2	...	3	17	6·1	...	8·5	2·4	...	3·6	20·7	23·1	8	9	18·0	23·8	75
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	10	13	23	7·9	10·2	18·1	77	17	...	9	4	...	5	35	13·4	...	7·1	3·1	...	3·9	27·5	34·6	23	12	35·4	19·3	183
Sarun	Chupra	25,116	26,554	51,670	6	6	12	6·0	6·0	12·1	100	5	...	3	2	1	4	15	5·0	...	3·0	2·0	1·0	4·0	15·1	3·0	10	5	20·7	9·8	211
Shahabad ...	Bhagulpore ...	29,640	27,813	57,453	19	9	28	17·2	8·1	25·3	211	2	..	11	2	...	12	27	1·8	...	9·9	1·8	...	10·9	24·4	12·7	17	10	29·8	18·7	159
Monghyr ...	Monghyr	28,154	29,366	57,520	21	24	45	19·0	21·7	40·7	87	2	.	10	3	1	8	24	1·8	...	9·0	2·7	·9	7·2	21·7	28·9	13	11	24·0	19·5	123
Purneah ...	Purneah	8,463	6,553	15,016	1	1	2	3·4	3·4	6·9	100	...	...	4	...	...	...	4	...	...	13·9	...	...	...	13·9	24·2	4	...	24·6	...	No female death.
Puri	Puri	13,247	11,537	24,784	2	1	3	4·2	2·1	6·3	200	...	...	6	2	...	4	12	...	...	12·6	4·2	...	8·4	25·2	23·1	8	4	31·4	18·0	174
	Total ...	550,986	510,588	1,061,574	207	174	381	10·1	8·5	18·7	119	72	2	193	80	8	111	466	3·5	·1	9·4	3·9	·4	5·4	22·8	23·3	269	196	25·4	20·0	127

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	5	2	...	...	...	11·0	10·1	...	...	...	1	...	...	1	2	2	...	...	1	...	23·0	...	...	16·6	13·1	15·1	..	...	35·1
Midnapore ...	Midnapore ...	...	10	1	...	...	...	20·1	7·2	...	...	3	1	...	..	...	1	1	..	...	5	210·0	22·1	...	...	...	7·1	9·4	..	...	142·1
Hushli ...	Hughli and Chinsurah	...	14	5	..	...	...	28·8	42·2	...	...	...	6	2	2	1	3	1	1	...	3	...	140·6	36·0	41·9	20·7	25·1	9·1	12·5	...	75·3
Serampore ...	Serampore ...	...	15	2	...	...	...	30·9	110·9	...	...	...	2	1	...	1	1	1	2	3	6	...	57·6	20·7	...	23·8	9·7	10·3	30·8	81·5	224·3
	Utterpara	...	4	...	...	...	...	39·1	...	...	...	1	..	...	...	...	...	1	...	2	...	323·0	...	...	...	...	...	49·0	...	282·6	...
Howrah ...	Howrah	...	26	8	...	...	..	19·5	20·3	...	...	5	2	4	3	2	5	4	2	1	6	126·0	18·5	33·1	23·7	14·2	11·5	10·8	8·8	9·5	83·2
	Bali	...	6	1	...	...	...	23·3	39·7	...	...	2	...	...	...	...	1	..	2	...	2	287·3	...	...	..	...	15·5	...	53·7	...	142·1
Nuddea ...	Krishnagar ...	...	2	4	...	...	...	5·6	25·1	...	...	2	2	...	...	...	...	...	...	2	...	209·7	42·2	...	...	...	...	...	...	49·4	...
	Ranaghat	...	2	...	...	...	...	14·2	...	...	...	...	...	..	...	...	1	...	1	...	...	...	...	...	...	...	34·5	...	51·8	...	...
	Santipore	...	7	1	...	...	...	17·6	5·8	...	...	1	1	1	...	...	1	...	...	2	2	61·5	17·9	13·8	...	...	10·6	...	...	45·2	53·0
Jessore ...	Jessore	...	1	2	...	...	...	11·5	27·2	...	...	1	...	...	...	...	...	1	..	...	1	268·0	...	...	...	...	..	34·0	...	...	113·5
Rajshahye ...	Rampore Beauleah	...	8	5	...	...	...	42·0	26·5	...	...	1	1	1	...	...	1	2	2	2	3	128·1	36·7	25·0	...	...	12·5	28·9	42·4	83·8	162·0
Darjiling ...	Darjiling	...	9	...	...	...	...	101·0	...	...	...	1	...	...	...	...	3	1	2	1	1	429·8	...	...	...	...	78·0	36·3	150·3	213·1	307·7
Dacca	Dacca	...	22	9	...	...	...	23·4	11·9	...	...	1	6	3	1	1	2	7	4	...	6	27·4	42·3	15·7	6·5	7·1	6·8	31·2	24·8	...	56·0
	Narainganj ...	...	2	2	...	...	...	16·4	16·9	...	...	1	2	1	...	...	...	...	..	...	...	186·4	91·2	39·4	...	...	...	...	...	...	...
Chittagong ...	Chittagong ...	...	3	6	...	...	...	26·9	20·4	...	...	1	1	...	1	...	3	...	2	...	1	92·4	28·4	...	20·2	...	33·7	...	46·1	...	65·3
Tipperah ...	Comillah	...	3	3	...	...	...	26·2	21·1	...	...	1	2	...	1	..	1	...	..	...	1	175·1	79·5	..	35·6	...	18·8	...	...	...	76·7
Patna	Patna City ...	...	38	9	...	...	...	16·6	11·4	...	...	10	7	2	2	4	8	4	4	...	6	120·6	24·9	6·2	7·2	18·6	14·4	8·9	11·0	...	22·6
Gya ...	Gya	...	64	19	...	...	...	55·4	61·5	...	...	21	13	7	4	3	10	8	4	5	9	610·1	106·4	52·0	30·9	29·8	35·3	32·7	21·3	39·6	89·3
Shahabad ...	Arrah	...	8	3	...	...	...	13·4	12·6	...	...	5	4	...	...	1	...	...	..	...	1	201·9	46·9	...	...	16·2	...	...	...	...	18·0
Mozufferpore ...	Mozufferpore ...	...	12	5	...	...	...	20·8	20·8	...	...	...	6	2	...	3	1	2	...	1	2	...	77·2	23·1	...	51·5	6·1	14·9	...	16·0	42·7
Durbhanga ...	Durbhanga ...	...	24	11	...	...	...	25·8	32·6	...	...	5	11	8	1	...	4	3	1	1	1	167·0	75·2	53·2	9·4	...	15·6	14·0	7·0	11·9	16·3
Saran	Chupra	...	14	1	...	...	...	18·4	4·4	...	...	1	3	2	1	3	...	3	...	.	2	36·9	30·2	17·5	10·4	44·9	...	20·0	...	...	30·6
Bhagulpore ...	Bhagulpore ...	1	18	8	...	...	134·7	23·5	24·1	...	...	10	4	1	1	2	1	2	1	2	3	435·5	38·4	8·9	8·3	24·9	4·8	11·2	8·3	24·4	43·3
Monghyr ...	Monghyr	...	20	4	...	...	...	23·3	16·5	...	...	7	2	1	2	1	4	2	1	1	3	245·1	16·7	7·4	18·1	13·8	20·1	11·7	8·2	13·1	43·5
Purneah ...	Purneah	...	1	3	...	...	...	5·7	27·6	...	...	...	...	...	...	1	1	1	...	1	...	...	...	...	...	52·3	15·8	18·2	...	55·5	...
Poori ...	Poori	...	12	...	...	...	...	25·4	...	...	...	...	1	2	...	1	1	3	1	1	2	...	28·9	46·4	...	23·0	9·8	38·5	15·6	23·3	57·6
	TOTAL ...	1	350	114	...	...	7·5	24·0	20·1	...	...	80	78	38	19	25	55	49	30	25	66	163·9	43·6	17·9	10·3	16·1	13·5	14·5	12·5	16·8	52·2

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 30th August 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 30th August 1890.			Week ending Saturday, the 31st August 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	272	58,130	907	343	71,775	1,196
Jute	71	24,300	447	62	24,750	439
Firewood	113	56,200	862	99	43,375	718
Other articles	773	2,30,300	3,104	891	2,06,305	2,946
Total ...	1,229	3,68,930	5,322	1,395	3,46,205	5,298

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 1,525¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	213,671	2,14,108 2 0	19,14,149 30	4,40,382 3 0	17,126 6 0	6,71,566 11 0	65,307½	70,218½	141,615½
Or per mile of railway	.....	140 5 8	.....	288 10 4	11 3 8	440 3 4	.....	.....	.....
For previous 7 weeks of half-year	1,555,891	15,43,682 6 0	1,21,86,971 20	26,73,657 0 0	1,24,489 15 11	43,41,829 5 11	438,772½	516,659½	955,432½
Total for 8 weeks ...	1,769,562	17,57,790 8 0	1,41,01,121 10	31,13,989 3 0	1,41,616 5 11	50,13,396 0 11	504,170½	592,877½	1,097,048
Comparison.									
Total for corresponding week of previous year	220,683	2,14,382 6 11	17,36,897 0	3,90,603 15 7	15,054 11 0	6,20,041 1 6	63,350	73,560	136,910
Per mile of railway corresponding week of previous year ...	.....	140 8 6	.....	256 0 10	9 13 11	406 7 8	.....	.....	.....
Total to corresponding date of previous year	1,922,005	18,52,858 14 5	1,70,08,382 20	35,87,547 15 7	1,34,322 5 1	55,74,729 3 1	518,356	669,643	1,187,999

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 24th August 1889.			Receipts for week ending 23rd August 1890.			Total receipts from 1st April 1889 to 24th August 1889.			Total receipts from 1st April 1890 to 23rd August 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525¼	6,20,041	406	1,525½	6,71,567	440	1,525¼	1,76,01,480	540	1,525¼	1,61,92,327	504	.....	14,09,153

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	8,948	4,470 14 0	30,850 30	1,960 12 0	45 0 0	6,476 10 0	1,034	572	1,596
Or per mile of railway	156½	78 2 7	539 20	34 4 6	0 12 7	113 3 8	.....	.....	.....
For previous 7 weeks of half-year	67,453	33,582 7 0	2,34,515 20	14,608 5 0	276 0 0	48,466 12 0	6,638	4,218	10,856
Total for 8 weeks ...	76,401	38,053 5 0	2,65,366 10	16,569 1 0	321 0 0	54,943 6 0	7,662	4,790	12,452
Comparison.									
Total for corresponding week of previous year	8,109½	4,096 15 11	73,437 20	2,164 10 0	26 11 9	6,278 8 8	1,154	1,097	2,251
Per mile of railway corresponding week of previous year ...	142	71 7 2	1,266 20	37 13 6	0 7 6	109 12 2	.....	.....	.....
Total to corresponding date of previous year	86,748½	44,792 11 11	4,47,488 10	20,124 13 0	340 11 6	65,258 4 5	8,084	5,970	14,054

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 24th August 1889.			Receipts for week ending 23rd August 1890.			Total receipts from 1st April 1889 to 24th August 1889.			Total receipts from 1st April 1890 to 23rd August 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	6,278	110	57½	6,477	113	57½	1,79,255	149	57½	1,81,687	151	2,432	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
tal traffic for the week ...	15,962	3,870 15 0	4,593 20	151 7 0	6 2 0	4,028 8 0	927	41	968
r per mile of railway	.....	173 15 7	.....	6 12 11	0 4 5	181 0 11	.....	.....	.....
For previous 7 weeks of half-year	122,855	30,118 11 0	30,613 20	1,061 6 0	50 5 0	31,230 6 0	6,147	343	6,490
Total for 8 weeks ...	138,817	33,989 10 0	35,207 0	1,212 13 0	56 7 0	35,258 14 0	7,074	384	7,458
Comparison.									
Total for corresponding week of previous year	15,373½	3,667 7 7	4,916 20	196 6 0	9 6 0	3,873 3 7	937	31	968
Per mile of railway corresponding week of previous year ...	.....	164 13 3	.....	8 13 3	0 6 9	174 1 8	.....	.....	.....
Total to corresponding date of previous year	143,055½	34,555 6 1	38,043 30	1,313 11 0	37 6 0	35,906 7 1	7,416	284	7,700

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 24th August 1889.			Receipts for week ending 23rd August 1890.			Total receipts from 1st April 1889 to 24th August 1889.			Total receipts from 1st April 1890 to 23rd August 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,873	174	22½	4,029	181	22½	1,13,544	554	22½	1,20,107	257	1,563	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 16th August 1890, on 767 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
tal traffic for the week ...	146,470	52,030 0 0	5,89,470 0	1,09,390 0 0	11,720 0 0	2,27,040 0 0	22,884	38,167	61,051
per mile of railway	191	69 0 0	782 0	212 0 0	*1 0 0	282 0 0	.....	.....	.....
r previous 6 weeks of half-year	870,270	3,48,650 0 0	28,18,710 0	6,24,190 0 0	84,180 0 0	10,57,020 0 0	130,522	178,431	308,953
Total for 7 weeks ..	1,016,740	4,01,580 0 0	34,18,180 0	7,86,580 0 0	95,900 0 0	12,84,060 0 0	153,406	210,598	370,004
COMPARISON.									
tal for corresponding week of previous year	118,815	49,608 0 0	6,81,366 0	1,65,760 0 0	11,031 0 0	2,26,399 0 0	22,368	31,913	54,281
r mile of railway corresponding period of previous year ...	159	66 0 0	912 0	222 0 0	*1 0 0	289 0 0	.....	.....	.....
tal to corresponding date of previous year	975,554	3,88,398 0 0	35,87,355 0	7,60,797 0 0	94,508 0 0	12,43,703 0 0	157,592	184,678	342,270

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

ECEIPTS FOR WEEK ENDING 17TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
lean ileage orked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,26,399	303	767	2,27,040	296	699	33,79,145	242	761	*36,02,675	237	2,23,530	.....

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 16th August 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
otal traffic for the week ...	23,840	7,480 0 0	40,250 0	3,460 0 0	100 0 0	11,050 0 0	3,612	2,060	5,672
r per mile of railway	191	60 0 0	322 0	27 0 0	1 0 0	88 0 0	.....	.....	.....
or previous 6 weeks of half-year	165,712	54,080 0 0	2,14,130 0	13,650 0 0	1,300 0 0	69,630 0 0	20,638	11,766	32,404
Total for 7 weeks ...	189,552	62,170 0 0	2,54,380 0	17,110 0 0	1,400 0 0	80,680 0 0	24,250	13,826	38,076
COMPARISON.									
Total for corresponding week of previous year	24,884	8,145 0 0	60,357 0	5,582 0 0	175 0 0	13,902 0 0	3,527	2,457	5,984
Per mile of railway corresponding period of previous year ...	199	65 0 0	483 0	45 0 0	1 0 0	111 0 0	.....	.....	.....
Total to corresponding date of previous year	197,027	63,945 0 0	2,99,322 0	22,576 0 0	1,499 0 0	87,320 0 0	24,118	15,362	39,480

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 17TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	13,902	111	125	11,050	88	125	2,67,167	107	125	*2,46,690	99	.....	20,477

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 16th August 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. a. p.	Mds. s.	Rs. a. p.	Rs. a. p.	Rs. a. p.			
Total traffic for the week ...	19,120	5,470 0 0	13,660 0	1,320 0 0	230 0 0	7,020 0 0	2,414	690	3,104
Or per mile of railway ...	220	63 0 0	159 0	15 0 0	3 0 0	81 0 0	.....	.....	...
For previous 6 weeks of half-year	79,910	26,470 0 0	70,710 0	6,360 0 0	740 0 0	33,590 0 0	13,828	3,942	17,770
Total for 7 weeks ...	99,030	31,930 0 0	84,370 0	7,710 0 0	970 0 0	40,610 0 0	16,242	4,632	20,874
Comparison.									
Total for corresponding week of previous year	11,063	3,648 0 0	8,026 0	710 0 0	74 0 0	4,432 0 0	2,514	642	3,156
Per mile of railway corresponding period of previous year	136	42 0 0	93 0	8 0 0	1 0 0	51 0 0	.....	.....	.....
Total to corresponding date of previous year	92,181	27,606 0 0	97,328 0	5,161 0 0	1,509 0 0	34,276 0 0	17,034	5,049	22,083

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 17th August 1889.			Receipts for week ending 16th August 1890.			Total receipts from 1st April 1889 to 17th August 1889.			Total receipts from 1st April 1890 to 16th August 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	4,432	51	86	7,020	81	86	1,08,555	63	86	*1,22,352	71	13,797	.....

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 16th August 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. a. p.	Mds. s.	Rs. a. p.	Rs. a. p.	Rs. a. p.			
Total traffic for the week ...	2,990	1,080 0 0	7,750 0	410 0 0	10 0 0	1,500 0 0	586	177	763
Or per mile of railway ...	110	40 0 0	284 0	15 0 0	...	55 0 0	.....	.....	.....
For previous 6 weeks of half-year	20,040	7,160 0 0	68,060 0	3,670 0 0	70 0 0	10,900 0 0	3,192	2,136	5,328
Total for 7 weeks ...	23,030	8,240 0 0	75,790 0	4,080 0 0	80 0 0	12,400 0 0	3,778	2,313	6,091
Comparison.									
Total for corresponding week of previous year	4,111	1,450 0 0	9,833 0	659 0 0	14 0 0	2,123 0 0	580	393	98
Per mile of railway corresponding period of previous year ...	151	53 0 0	361 0	24 0 0	1 0 0	78 0 0	.....	.....	.....
Total to corresponding date of previous year	21,626	8,132 0 0	52,011 0	3,536 0 0	194 0 0	11,862 0 0	3,952	2,369	6,32

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 17th August 1889.			Receipts for week ending 16th August 1890.			Total receipts from 1st April 1889 to 17th August 1889.			Total receipts from 1st April 1890 to 16th August 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,123	78	27¼	1,500	55	27¼	37,641	69	27¼	*38,408	70	96	.....

* Audited up to week ending 21st June 1890.

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[REGISTERED No. 29.]

No. 37 of 1890.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, SEPTEMBER 10, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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RULES UNDER ACTS I (B.C.) OF 1889 AND I OF 1882.

GENERAL DEPARTMENT.

Calcutta, the 9th September, 1890.

RESOLUTION.

READ—

The Resolution dated the 17th April, 1890, publishing for public criticism draft rules as to emigration to the tea districts of Assam under Act I (B.C.) of 1889 and Act I of 1882.

Read also the following letters commenting on the draft rules:—

Letter from the Superintendent of Emigration, No. 1083, dated the 17th May, 1890.

Letter from the Superintendent of Emigration, No. 1119, dated the 27th May, 1890, covering a communication from the Indian Tea Association.

Letter from the Consulting Engineer to the Government of India for Guaranteed Railways, No. 945, dated the 22nd May, 1890.

Letter from the Superintendent and Remembrancer of Legal Affairs, No. 466, dated the 14th July, 1890.

Letter from the Superintendent of Emigration, No. 1573, dated the 19th August 1890.

Draft rules for the further guidance of those conducting emigration to Assam either under Act I of 1882 or Bengal Act I of 1889 were published for public criticism in the *Calcutta Gazette* of the 14th May last. The suggestions received in reply having been considered, and adopted in nearly every

instance, the following rules are now approved by the Lieutenant-Governor with effect from the 1st October next:—

Rules issued in addition to the existing rules under Act I (B.C.) of 1889.

18. The daily despatch of emigrants by train shall be previously arranged for by the forwarding agent with the Railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

19. The agent shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour, if a cooked meal cannot be provided, a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the agent for distribution to the emigrants for consumption during the journey.

20. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer. The medical officer will report any breach of Rule 19 which may come to his notice.

21. When despatching emigrants by train, the purest drinking water obtainable shall be supplied by the agent in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. Emigrants shall be afforded during the journey opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

22. Emigrants about to travel by train shall be accommodated in third class carriages specially reserved for them, or in suitably constructed goods waggons, and the number in each carriage or goods waggon shall in no case exceed the regulation number. When a goods train is used for carrying emigrants, the speed shall not be less than 15 miles an hour on the broad gauge and 12 miles an hour on the metre gauge, exclusive of halts for the convenience of emigrants, but not of other halts.

23. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

24. If cholera occurs on the journey by train, the patient shall as soon as possible be removed by the Railway authorities to the nearest cholera hospital on the line or other suitable place for medical treatment; and particulars of the case, furnishing name of emigrant, batch to which belonging, and depôt from which originally despatched, shall be forwarded by the station-master to the officers concerned. The expense incurred in removal to a suitable place for medical treatment shall be debited to the Inland Labour Transport Fund, and subsequently recovered from the forwarding agent or employer interested in the patient.

5A. It shall be the duty of the Superintendent of Inland Emigration to inspect places of accommodation provided for emigrants in Calcutta.

25. The provision of Rule 16 of the rules previously issued shall extend to the present rules.

Rules to be substituted for the existing Rules 64, 65, *and* 69 *under the Inland Emigration Act, I of* 1882.

64. The daily despatch of emigrants shall be previously arranged for by the contractor or forwarding agent with the Railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

65. The contractor or garden sardar shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal; and for those started at or before that hour, if a cooked meal cannot be provided, a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the contractor or garden sardar for distribution to the emigrants for consumption during the journey.

69. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer.

69A. When despatching emigrants by train, the purest drinking-water obtainable shall be supplied by contractors or forwarding agents in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. In the absence of latrine arrangements, emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking water being obtained.

Rules issued in addition to the existing rules under Act I of 1882.

69B. Emigrants about to travel by train shall be accommodated in third class carriages especially reserved for them, or in suitably constructed goods waggons attached to passenger trains only, and the number in each carriage or goods waggon shall in no case exceed the regulation number. When a goods train is used for carrying emigrants, the speed shall not be less than 15 miles an hour on the broad gauge and 12 miles an hour on the metre gauge, exclusive of halts for the convenience of emigrants, but not of other halts.

69C. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

170A. Whoever commits a breach of any of the following rules under the Act shall be punishable with fine which may extend to Rs. 500:—Rules 19, 37, 49 to 52, 62 to 69, 71, 72, 79, 113, 118 to 120, 165, and 166.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

THE following report is published for general information.

H. J. S. COTTON,

Secretary to the Government of Bengal.

REPORT ON THE WORKING OF THE FIRE BRIGADE IN THE TOWN AND SUBURBS OF CALCUTTA AND IN HOWRAH DURING THE YEAR 1889-90.

No. 4895, dated Calcutta, the 14th August 1890.

From—J. LAMBERT, ESQ., C.I.E., Commissioner of Police, Calcutta,

To—The Secretary to the Government of Bengal, Municipal Department.

I HAVE the honour to submit, under section 30 of Act IV (B.C.) of 1883, the following report on the working of the Fire Brigade in the Town and Suburbs of Calcutta and in Howrah, for the year 1889-90.

2. The Brigade was in attendance at 36 fires during the year, 11 in the Town, 18 in the Suburbs and 7 in Howrah, as compared with 38 fires in the preceding year. The value of the property destroyed was Rs. 4,59,800, against Rs. 13,06,255.

3. Of the several fires which occurred during the year under review, the following call for special notice:—

In the town two destructive fires occurred in the Jorabagan section, in one of which property to the value of Rs. 93,000 was burnt, and in the other several tiled huts and a large godown, containing oil, tobacco and tar, valued in all at Rs. 15,000, were destroyed, and a man who was sleeping in one of the huts was burnt to death. In the port of Calcutta four boats laden with straw and one laden with jute, valued at Rs. 10,340, were destroyed.

In the Suburbs, on the 16th May 1889, a large quantity of hay and straw and 14 tiled huts at Narcoldanga, valued at Rs. 40,000, were burnt, and on the 10th March 1890 the press-house of the Bengal Hydraulic Jute Company in Chitpore, containing 9,000 bales of jute, was destroyed. The value of the property so destroyed was estimated at Rs. 2,70,000.

In Howrah the fires were confined to thatched and tiled huts.

4. A memorandum of the fires, and also a statement of the receipts and expenditure of the Brigade, are enclosed.

5. During the year under reference, 28 persons were prosecuted in the town of Calcutta under the Indian Explosives' Act IV of 1884, for the manufacture, possession and sale of fireworks, and of these 26 were convicted and 2 acquitted.

6. No license for the sale of fireworks was withdrawn during the year.

Memorandum of Fires in the Town and Suburbs of Calcutta and in Howrah from 1st April 1889 to 31st March 1890.

Number.	Date.	Locality with section letter.	Duration of fire.	Approximate value of property destroyed.	Remarks, showing nature of damage done, &c.
		Town		Rs.	
1	6th June 1889 ...	Jorabagan, Section E, Town.	3 hours and 30 minutes ..	15,000	Several tiled huts and a large godown with iron roof containing tobacco, oil and tar. One man was burnt to death at the fire.
2	6th October ,, ...	Bichalighat, 1st Division, River Police.	2 hours and 40 minutes ...	300	Three boats laden with straw.
3	17th December ,, ...	Kassi Mitter's Ghât Street, Section B, Town.	1 hour	Nil	A quantity of oiled cotton waste and rubbish inside an oil mill. Damage nominal.
4	19th ,, ,, ...	Wellesley Square, Section N, Town.	2 hours and 15 minutes ...	4,000	Four large tiled huts.
5	8th January 1890 ...	Manicktollah Bazar, Section D, Town.	2 hours and 15 minutes ...	350	A pucca building with tiled roof containing cloth, kerosine oil and tobacco.
6	16th ,, ,, ...	River, 1st Division, Port Police.	2 hours and 25 minutes ...	3,500	India General Steam Navigation Company's flat *Nizam*, containing 6,000 drums of jute.
7	3rd February ,, ...	Posta Bazar, Section E, Town	12 hours and 15 minutes ...	93,000	Three dwelling houses, fifty-three two-storied shops, and a large quantity of grain, potatoes and country produce.
8	11th ,, ,, ...	River, 1st Division, Port Police.	4 hours	10,340	Four boats laden with straw and one laden with jute.
9	26th ,, ,, ...	Moonshee Bazar, Section I, Town.	2 hours	300	Six tiled huts.
10	18th March ,, ...	Chitpore Road, Section E, Town.	2 hours and 30 minutes ...	3,000	Four tiled houses and a quantity of timber.
11	25th ,, ,, ...	Hogg Street, Section M, Town	1 hour	3,235	Eleven shops and tiled houses occupied by petty dealers and containing ghee, sugar, flour, kerosine oil, dried fruits, &c.
11	Total fires			1,33,025	
		Suburbs.			
1	25th April 1889 .	Tallygunge Bridge Road, Section K, Suburbs and 24-Pergunnahs.	5 hours and 45 minutes ...	5,000	Eighty-four tiled huts and a quantity of grain and timber.
2	16th May ,, ...	Narcoldangah, Section E, Suburbs.	4 days and 3 hours	40,000	A large quantity of hay and straw and fourteen tiled huts.
3	6th June ,, ...	Alipore, Section L, Suburbs ...	4 hours and 35 minutes ...	1,000	Twenty-five tiled huts.
4	4th December ,, ...	Chitpore, Section B, Suburbs	4 hours and 45 minutes ...	5,000	A large quantity of baled jute stacked in the compound of the Strand Bank Press.
5	12th ,, ,, ...	Ditto ditto	45 minutes	50	Two golputta huts, each containing seven rooms.
6	24th ,, ,, ...	Ditto ditto	3 hours and 30 minutes ...	2,000	A quantity of loose jute in the yard at the back of the Calcutta Hydraulic Press.
7	24th ,, ,, ...	Tindal Bagan, Section B, Suburbs.	Lasted for a short time. Was extinguished by the khallasees of the Brigade with buckets and kulsis.	40	One golputta hut.
8	4th January 1890 ...	Canal, Section C, Suburbs ...	4 hours and 15 minutes ...	130	A boat laden with straw.
9	31st ,, ,, ..	Baranagore, Section A, Suburbs.	1 hour and 45 minutes ...	100	A kutcha hut containing a sweetmeat shop.
10	14th February ,, ...	Cossipore Road, Section B, Suburbs.	Extinguished by the Fire Brigade Inspector with his native staff by means of buckets.	60	A cart load of fourteen drums of jute.
11	14th ,, ,, ...	Canal Road, Section B, Suburbs.	A small fire. Put out by the neighbours.	30	A small tiled hut.
12	25th ,, ,, ...	Strand Bank Press, Section B, Suburbs.	Extinguished by the coolies of the Press.	Nil	Some refuse loose jute on the terrace of the Strand Bank Press kept near the chimney.
13	26th ,, ,, ...	Canal Road, Section B, Suburbs.	3 hours and 10 minutes ...	100	Two tiled and three golputta huts.
14	8th March ,, ...	Canal Road, Section B, Suburbs.	6 hours	2,600	Thirty-nine golputta and two tiled huts.
15	9th ,, ,, ...	Entally, Section F, Suburbs ...	1 hour and 20 minutes ...	75	One tiled hut and a quantity of charcoal.
16	10th ,, ,, ...	Chitpore, Section B, Suburbs	6 days; steam-engine for 2 days, and manual engine for 4 days.	2,70,000	Press-house of the Bengal Hydraulic Jute Press, containing 9,000 bales of jute.
17	15th ,, ,, ...	Narkel Bagan, Section B, Suburbs.	Petty fires. Extinguished before the arrival of the Brigade.	15	One golputta hut.
18	17th ,, ,, ...	Ditto ditto		Nil	A portion of golputta hut.
18	Total fires.			3,36,200	
		Howrah.			
1	27th August 1889 ...	Dobson's Road, Howrah ...	1 hour	75	A large tiled hut.
2	28th November ,, ...	Golabaree, Howrah	1 hour	50	A tiled hut.
3	14th January 1890 ...	Seebpore, do.	1 hour and 10 minutes ...	50	Two small tiled huts.
4	27th ,, ,, ...	Bantrah, do.	2 hours and 35 minutes ...	150	Six thatched huts.
5	6th February ,, ...	Seebpore, do.	30 minutes	100	A large tiled hut.
6	7th March ,, ...	Do. do.	30 minutes	50	A tiled hut.
7	26th ,, ,, ...	Bantrah, do.	2 hours	100	A large cowshed.
7	Total fires.			575	
36	Total number of fires at which the Brigade were in attendance.		GRAND TOTAL ...	4,59,800	

CALCUTTA,
The 14th August 1890.

J. LAMBERT,
Commissioner of Police.

Statement showing the Actual Receipts and Disbursements of the Fire Brigade Fund for the year ending 31st March 1890.

Receipts.	Budget estimate for 1889-90.	Actual receipts for 1889-90.	Increase.	Decrease.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Balance on 31st March 1889	21,423 0 0	16,682 4 5	.....	...
Contribution of 80 per cent. from Town Corporation ..	20,855 0 0	22,034 12 10	1,179 12 10	
Ditto ditto from Suburban Municipality .	27,200 0 0	24,297 4 9	.	2,902 11 3
Ditto ditto from Howrah Municipality .	4,640 0 0	4,060 0 0		580 0 0
Fines under Jute Warehouse Act	100 0 0	... ...		100 0 0
Fees for licenses for fireworks in Town	200 0 0	50 0 0		150 0 0
Ditto ditto Suburbs	200 0 0	... ...		200 0 0
Hire of fire engines	200 0 0	50 0 0	.. ..	150 0 0
Sale proceeds of canvas hose		29 0 0	29 0 0	...
Fees under Petroleum Act	300 0 0	768 0 0	468 0 0	... ..
Fines ditto ditto	100 0 0	147 0 0	47 0 0	... ..
Total ..	53,795 0 0	51,436 1 7	1,723 12 10	4,082 11 3

Payments.	Budget estimate for 1889-90.	Actual charges for 1889-90.	Increase.	Decrease.
Establishment at Lall Bazar.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1 Superintendent at Rs. 200	2,400 0 0	2,400 0 0	.....	... ..
1 Engineer ,, 160	1,920 0 0	1,920 0 0		.. ..
1 Driver ,, 120	1,440 0 0	1,140 0 0	..	.....
1 Fireman ,, 10	120 0 0	120 0 0	.....	.....
3 Tindals ,, 10 each	360 0 0	360 0 0	... ..	... ..
18 Khallasees ,, 7 ,, ...	1,512 0 0	1,246 4 0	.. .	265 12 0
11 Syces ,, 7 ,, ...	924 0 0	924 0 0	.....	.....
Personal allowance to three tindals	72 0 0	72 0 0	.....	...
Total ...	8,748 0 0	8,482 4 0	.....	265 12 0
Contingencies.				
Feed and keep of horses including shoeing, veterinary attendance, and repairing harness, &c.	3,200 0 0	4,227 2 9	1,027 2 9	.....
Lighting Engineers' and Drivers' quarters and Fire Brigade stables	360 0 0	360 0 0	.....	... ..
Accoutrements for the European members of the Fire Brigade supplied every year	650 0 0	657 5 10	7 5 10	.....
Extra pay of European members of the Brigade, at Rs. 5 for each attendance at fire	1,500 0 0	690 0 0	...	810 0 0
Rent	3,282 0 0	3,020 7 3	638 7 3	.....
Pension	1,267 0 0	1,297 8 11	30 8 11	...
Gratuities to persons giving notice of fire	100 0 0	... ..	... ..	100 0 0
Cost of a new horse brake	...	... .	...	.....
Cost of engine, fittings and accessaries ... ... Rs. 11,504-4				
Less sale-proceeds of engine .. .. ,, 3,300-0				
	. ..	8,204 4 0	8,204 4 0	... ..
Canvas hose	4,000 0 0	.....		4,000 0 0
Purchase of two horses	1,200 0 0	1,400 0 0	200 0 0	.. ...
Harness for ditto	500 0 0	520 0 0	20 0 0	.....
Repairs of buildings	2,000 0 0	... ...	.....	2,000 0 0
Implements	1,000 0 0	9 6 0	...	990 10 0
Repairs of engines and brakevans	1,500 0 0	1,036 8 8	.....	463 7 4
Maintenance of telegraph lines	4,087 0 0	3,272 0 0	.....	815 0 0
Petty contingencies, including coal, wood, &c.	2,000 0 0	1,450 9 9	.....	549 6 3
Total ..	26,646 0 0	27,045 5 2	10,127 12 9	9,728 7 7
Howrah Establishment.				
1 Superintendent at Rs. 20	240 0 0	240 0 0	... .	.....
1 Engineer ,, 120	1,440 0 0	1,440 0 0	.....	.....
1 Tindal ,, 10	120 0 0	120 0 0	... ..	.....
1 Fireman ,, 10	120 0 0	120 0 0	... ..	.....
3 Tindals ,, 8 each	288 0 0	288 0 0	... ..	.....
12 Khallasees ,, 7 ,, ...	1,008 0 0	1,002 0 0	.....	6 0 0
6 Ditto ,, 6 ,, ...	432 0 0	432 0 0	.. ..	.....
1 Engine-driver ,, 10	120 0 0	120 0 0	... ..	.....
3 Syces ,, 7 each	252 0 0	252 0 0	.....	.....
Total ...	4,020 0 0	4,014 0 0	....	6 0 0
Contingencies.				
Feed and keep of horses, including shoeing, veterinary attendance, repairs of harness, &c.	750 0 0	977 7 6	227 7 6	...
Rewards to informers giving notice of fire	50 0 0	...		50 0 0
Repairs of engines and brakevans	500 0 0	326 4 0	.....	273 12 0
Steam-engine hose and gear	200 0 0	... ...	...	200 0 0
Purchase of horses	600 0 0	648 0 0	48 0 0	..
Hose-cart	....	....	....	.. ..
Repairs and construction of buildings and look-out	13,037 12 0	13,097 10 4	659 14 4	...
Contingencies, oil, soap, cotton waste, &c.	500 0 0	333 11 0	...	161 5 0
Total ..	15,637 12 0	15,883 0 10	935 5 10	690 1 0
Bhowanipore.				
2 Tindals, at Rs 10 each	240 0 0	240 0 0	... ..	... ..
12 Khallasees, at Rs. 7 ,, ...	1,008 0 0	1,008 0 0	.....	.....
Total ...	1,248 0 0	1,248 0 0	.... .	.....
Watgunge.				
2 Tindals, at Rs. 10 each	240 0 0	240 0 0	....	....
12 Khallasees, at Rs. 7 ,, ...	1,008 0 0	1,008 0 0	....	.. ..
Total ..	1,248 0 0	1,248 0 0	.. .	.....
Palmer's Bridge.				
2 Tindals, at Rs. 10 each	240 0 0	240 0 0	.....	.....
12 Khallasees, at Rs. 7 ,, ...	1,008 0 0	1,008 0 0	.....	... ..
Total ...	1,248 0 0	1,248 0 0	.....	.....
Carried over . ..	88,795 12 0	89,168 10 0	11,063 2 7	10,690 4 7

Payments.	Budget estimate for 1889-90.	Actual charges for 1889-90.	Increase.	Decrease.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Brought over ..	58,795 12 0	59,168 10 0	11,093 2 7	10,690 4 7
Chitpore.				
1 Engineer, at Rs 120	1,440 0 0	1,440 0 0	. ...	. .
1 Tindal and 1 fireman, at Rs. 10	240 0 0	240 0 0	.	... ..
1 Driver, at Rs. 15	180 0 0	180 0 0	..	.
12 Khallasees, at Rs. 7 each	1,008 0 0	1,004 11 8	.....	3 4 4
3 Syces, at Rs. 7 each	252 0 0	252 0 0	.....	.....
Total .	3,120 0 0	3,116 11 8	. ..	3 4 4
Contingencies.				
Feed and keep of horses	750 0 0	870 15 6	120 15 6	
Repairs of engines and hose-cart	400 0 0	.. ...	..	400 0 0
Steam-engine hose and gear	1,000 0 0	..		1,000 0 0
Purchase of horses	600 0 0	... ..		600 0 0
Petty contingencies, including coal, oil, &c.	500 0 0	306 3 6	..	193 12 6
Repairs of buildings	... .	296 3 6	296 3 6	
Total .	3 250 0 0	1,473 6 6	417 3 0	2,193 12 6
Travelling allowance for inspecting Petroleum Depôts	360 0 0	360 0 0	.	. ..
Total ...	65,525 12 0	64,118 12 2	11,480 5 7	12,887 5 5
Balance on 31st March 1890 ..	9,692 4 0	3,999 9 10	..	..
Total ..	75,218 0 0	68,118 6 0	11,480 5 7	12,887 5 5

J. LAMBERT,
Commissioner of Police.

CREATION OF A FREE STUDENTSHIP IN THE SANSKRIT COLLEGE.

GENERAL DEPARTMENT—EDUCATION.
Calcutta, the 6th September, 1890.

RESOLUTION.

READ—

A letter from the Director of Public Instruction, No 4808, dated the 29th August, 1890 regarding the offer of Sreemati Sati Devi of Chandannagar to create a free studentship in the Sanskrit College.

The Director of Public Instruction reports that Sreemati Sati Devi of Chandannagar has offered through the Principal of the Sanskrit College to make over 4 per cent Government securities of the nominal value of Rs. 600 for the creation of a free studentship in the First Arts class of that College for the benefit of a son of a Bhattacharyya Brahmin, on condition that the fee payable by such free student be fixed at Rs. 2 a month, and that the free student be called "Sati Devi's scholar." The Lieutenant-Governor is pleased to accept this offer, and tenders the thanks of Government to the donor for her liberality. The Principal of the Sanskrit College will be the administrator of the fund.

ORDER.—Ordered, that a copy of this Resolution be forwarded to the Director of Public Instruction for information and communication to the donor.

Ordered also, that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Government of Bengal.

RESOLUTION ON THE ANNUAL REPORT OF THE MARINE DEPARTMENT FOR 1889-90.

No. 2370Marine.

GOVERNMENT OF BENGAL—MARINE DEPARTMENT.

RESOLUTION.

Dated Calcutta, the 4th September 1890.

READ—

The Annual Report of the Port Officer of Calcutta for the year 1889-90.

Lieutenant E. W. Petley, R.N., was in charge of the Port Office throughout the year, and the report is submitted by him.

2. The building for the Port and Shipping Offices was not completed during the past year, as was expected at the time when the Annual Report of the Marine Department for 1888-89 was reviewed. It is now nearly finished.

3. The strength of the Pilot Service at the end of the year was 60 pilots of all grades and 17 leadsmen apprentices. The number of pilots now accords with the scale which was sanctioned in the orders dated the 4th July 1888. No leadsmen apprentices were appointed during the year.

4. The leadsmen apprentices still occupy the two houses at Garden Reach rented by Government for their accommodation, and the premises are reported to be admirably suited for the purpose. These quarters were, as in the year before, under the management of a Mess Committee, and the Port Officer, who inspected them frequently during the year, found them to be in excellent order.

5. The following statement shows the number of arrivals and departures during the past two years:—

	1888-89.			1889-90.		
	Number.	Gross tonnage.	Net tonnage.	Number.	Gross tonnage.	Net tonnage.
Arrivals ...	1,037	2,245,857	1,615,935	1,038	2,250,948	1,604,153
Departures ...	1,034	2,240 444	1,608,656	1,018	2,202,819	1,570,776
Total ...	2,071	4,486 301	3,224,591	2,056	4,453,767	3,174,929

6. These figures are exclusive of 13 light-vessels, 13 pilot brigs, and 34 other Government vessels; 2 vessels put back, 7 steam-tugs, which are constantly moving up and down the river, and the steamers trading to the Orissa ports. Of these there were 133 arrivals and 134 departures. They do not also include the native craft.

7. The size and draft of steamers visiting the port still continue to increase. One hundred and forty-three steamers, drawing over 21 feet, entered the port during the year under review, against 120 in the year before.

8. The average number of vessels piloted by the several grades of the Pilot Service, with the exception of the Junior Masters, was in excess of that of the preceding year. The number, however, that fell to the share of Junior Masters came down from 3·26 a month in 1888-89 to 3·13 during the year under review. It is very difficult to reconcile all the interests involved in the division of tonnage amongst the several grades of pilots, but on the whole the arrangement which was sanctioned in the orders of the 4th July 1888 has worked well so far.

9. Thirty-nine cases of grounding and five of collision took place during the year, against 50 and 12 in the year before. None of these casualties, however, resulted in the loss of a vessel, and in one only was serious damage done. The collisions were all accidental, but as regards the groundings blame was attached to the pilots in ten cases. Eight of these were due to error of judgment, one to inattention, and one to unskilfulness. The remaining cases of grounding were either accidental or unimportant, or due to alteration of channel.

The percentage of casualties amounted to 2·14, against 2·99 in the year before and 2·84 in 1887-88. The reduction of the percentage is satisfactory.

10. The Eastern Channel and the lower part of the Gasper have remained unaltered, but the channel between the Longsand and the Upper Gasper light-vessels deteriorated considerably. The channel between the Longsand light-vessel and the Longsand spit buoy has also shoaled somewhat, and there is no anchorage for deep vessels anywhere between the Lower Eastern Gasper and the Longsand spit buoys. The Eden Channel has improved, and has 17 feet of water in the best track over the bar. It is stated that seven inward-bound vessels and two outward-bound were delayed for want of sufficient water over the bars. This does not, however, take account of vessels being kept in the port for want of water over the bars during certain stages of the tides. Were these cases included, the number of outward-bound vessels delayed would be higher.

11. The new steamer *Guide*, which was built in England to take the place of the *Undaunted*, arrived towards the close of the year, and was, after being surveyed, taken over from the builders and fitted out for duty. The vessel is well fitted in every way for the service on which she is employed. She has, since the close of the year, been taken over by the Government of India in the Marine Department. The new pilot brig *Fume* arrived at the beginning of the year. Considerable expenditure had to be incurred on alterations and in rectifying defects to make her fit for the work of a pilot brig. The *Sarsuti* was thoroughly overhauled, cleaned and painted during the year, and is reported to be in good condition. The hull, rig and equipment of the *Coleroon* were thoroughly repaired to render her efficient with the usual ordinary repairs for some years to come. The new launch for the Port Officer has been completed since the close of the year.

12. One hundred and twenty-four candidates were examined for colonial and local certificates of competency of various grades, of whom 88 passed. Of the successful candidates, 19 obtained colonial certificates of competency as master, 24 as first mate, 3 as only mate, 17 as second mate, 3 as first class engineer, and 6 as second class engineer. The local certificates consisted of 1 master's, 1 first mate's, 2 second mate's, 4 second class engineer's, and 44 engine-driver's. One candidate obtained a license as a steam-tug pilot, and three certificates as master were granted under Act VI of 1884. The licenses of two of the native pilots were renewed, 14 new permits were granted to native coasters and 6 were renewed. Five vessels were registered under the English Merchant Shipping Act of 1884, and the registry of three was cancelled.

13. The Government of India having asked for a separate report on the working of the Native Passenger Ships Act, 1887, the number of certificates issued during the year is not given in the report under review.

14. Lieutenant Petley's management of the department during the year was entirely satisfactory.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 6th September, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN. 1	Burdwan Sept. 6, '90	4·74	Weather—hot and clear. Prospects of crops good. Rain wanted in certain parts of the district. Prices of common rice:— Srs. Burdwan ... ... 16; Culna ... ... 14; Cutwa ... ... 15 1/16; Ranigunge ... ... 16 — per rupee.
	Culna ...	6·31	
	Cutwa ...	1·19	
	Ranigunge ...	0·33	
2	Bankoora „ 6, '90	1·00	Weather—fine and warm. More rain wanted. *Aus* ripening. *Amun* on high land suffering for want of moisture. Sugarcane doing well. Common rice selling at 19 seers per rupee at Sudder and 18 seers at Bishenpore.
3	Birbhum „ 6, '90	0·28	A decided break in the rains, which is very good for weeding operations. Prospects of crops continue to be excellent. Prices of rice range from 16 to 19 seers per rupee.
	Rampore Haut ...	0·73	
4	Midnapur „ 6, '90	2·75	Weather—sultry. Rain general except in the Contai subdivision, which reports none up to 4th instant. More rain wanted for rice crop. Prices of common rice:— Srs. Ch. Sudder ... ... 16 0; Contai ... ... 16 0; Tumlook ... ... 14 3; Ghatal ... ... 16 0 — per rupee.
5	Hooghly „ 6, '90	2·08	Temperature has increased considerably. Weather generally fair with occasional heavy showers. State and prospects of crops satisfactory. Prices of common rice:— Srs. Sudder ... ... 13 & 14; Serampore ... ... 16; Jehanabad ... ... 16 — per rupee.
	Serampore ...	4·33	
	Jehanabad ...	0·04	
	Howrah „ 6, '90	0·45	Weather—fair except for a few showers. More rain wanted for *amun* crop. Harvesting of *aus* crop begun. Prospects of crops still continue satisfactory. Price of common rice 13 to 14 seers per rupee.
	Uluberiah ...	1·21	
	Central Districts.		
PRESIDENCY DIVN. 6	24-Pergha. Sept. 9, '90	1·21	Weather—hot and clear. Prospects of all standing crops continue good except those in the northern parts of the Bussirhat subdivision, which are said to have been affected by the floods. Transplantation of *amun* nearly finished. Harvesting of *aus* and jute going on. Prices stationary.
7	Nuddea „ 6, '90	2·61	Weather—sunny and hot. Harvesting of *aus* still going on. Flood has slightly gone down. Price of common rice 13 seers per rupee.
	Kushtea ...	4·28	
	Meherpore ...	1·52	
	Chuadanga ...	0·73	
	Ranaghat ...	4·17	
8	Khoolna „ 6, '90	0·17	Weather—very hot at head-quarters, rainy in Satkhira. Floods in the northern part of the district, and crops on low lands submerged and destroyed. *Aus* is being harvested; outturn will be about 10 annas. Transplantation of *amun* going on. Prices of food-grains rising.
	Bagirhat ...	1·08	
	Satkhira ...	4·79	
9	Jessore „ 6, '90	0·16	Weather—hot with occasional light showers. Flood reported to be falling in Magura and Jhenidah; rising in Bongong. Narail report not received. Ten annas of *aus* crop and a large portion of jute crop said to have been destroyed in Bongong and Jhenidah. Fodder very scarce in Bongong.
	Jhenidah ...	3·86	
	Magura ...	1·04	
	Bongong ...	1·90	
10	Moorshedabad „ 6, '90	1·33	Weather—hot. River falling gradually. *Aus* is still being harvested. Transplantation of *amun* going on. Distress in affected areas being relieved.
RAJSHAHYE DIVN. 11	Dinagepur „ 6, '90	1·14	Weather—warmer. Prospects of crops continue to be favourable. Price of rice unchanged.
	Thakurgaon ...	2·74	
12	Rajshahye „ 6, '90	2·82	Weather—hot and cloudy with rain at intervals. In thanas Tanore, Charghat, Baraigram, Lalpur, and Panchupore *aus* about 2 to 3 annas, jute and a little *amun* paddy submerged. In the remaining thanas no damage done. Prospects of winter paddy and sugarcane are as yet good. Flood receding.
	Nattore ...	1·00	
	Nowgong ...	1·82	
13	Rungpur „ 6, '90	2·77	Weather—cloudy with frequent heavy showers. A good deal of damage reported from the Brahmaputra churs owing to a sudden rise of that river. Otherwise prospects are excellent all round.
	Nilphamari ...	5·37	
	Kurigram ...	3·46	
	Gaibanda ...	4·29	
14	Bogra „ 6, '90	5·75	Weather—cloudy; south-east wind. *Aus* and jute are still being reaped. Transplantation of *amun* still going on. Prospects of crops good. Common rice selling at 18 seers per rupee.
	Sherpur ...	7·67	
	Nowabgunge ...	6·14	
15	Pubna „ 6, '90	0·55	Weather—hot and cloudy. Jute is being cut. Outturn of *aus* expected to be 12 annas. Prospects of *amun* continue good except on low lands. Prices stationary.
16	Darjeeling „ 6, '90	4·69	Weather—rainy with occasional breaks. Constant showers of rain are doing much good to the winter rice at Terai. *Bhutta, chota marua*, and potatoes are being harvested. *Bhaddi* and *bara marua* progressing well.
17	Julpigoree „ 6, '90	6·70	Weather—rainy and cloudy. Transplantation of *haimanti* paddy not yet finished. Harvesting of jute and *aus* paddy going on. Price of rice unchanged.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
DACCA DIVN. 18	Dacca Sept. 6, '90	1·06	Weather—seasonably warm and mostly cloudy. *Aus* paddy and jute being harvested. Some damage done to these crops owing to high flood. *Amun* paddy thriving. Fodder available, but not in abundance. Common rice sells at from 13 to 15 seers per rupee.
19	Furreedpur „ 6, '90	0·03	Weather—hot and close. The river has risen more than a foot and-a-half above the last year's highest flood-level. Only about 8 annas of the *aus* crop could be reaped, and the *amun* has been damaged to the extent of about 2 annas. If the flood continues to be at its present level for some time more, the damage will be considerable. Price of rice stationary.
20	Backergunge „ 6, '90	0·84	Weather—hot. Outturn of *aus* crop estimated at 12 annas. *Amun* seedlings in many places damaged by high water, and transplantation not yet finished. Common rice selling at about 13 seers per rupee.
21	Mymensingh „ 6, '90	2·94	Weather—cloudy and hot with occasional rainfall. Harvesting of *aus* and jute still continues. Transplantation of *amun* not yet over. Standing crops promising and favourable. Common rice sells at 13½ seers per rupee.
CHITTAGONG DIVN. 22	Chittagong „ 6, '90	7·28	Weather—seasonable. About eight annas of *aus* cut. *Amun* transplanted to about ten annas of land by this time. Prospects favourable. Prices steady.
23	Noakholly ...	.....	Report not received.
24	Tipperah „ 6, '90	1·18	Weather—cool and wet at beginning of week, hot and dry at its close. Jute and *aus* rice being cut. River water unusually high. Price of rice has risen about 3 annas a maund in Chandpore.
25	Chittagong Hill Tracts. ...	.....	Report not received.
	Hill Tipperah „ 5, '90	1·01	Weather—hot and sultry. Transplanting of *amun* finished. Prospects of crops generally fair. Prices almost stationary.
BEHAR.			
PATNA DIVN. 26	Patna „ 6, '90	Nil	Weather—very hot. Transplantation of paddy nearly finished. *Bhadoi* crops are being harvested; outturn reported to be poor. Sugarcane doing well. Prices of food-grains generally stationary.
	Barh ...	0·30	
	Behar ...	1·61	
	Dinapore ...	0·95	
27	Gya „ 6, '90	Nil	Weather—clear. *Bhadoi* crops are being harvested. Paddy and sugarcane doing well. Prices of food-grains almost stationary.
28	Shahabad „ 6, '90	0·02	Weather—hot. *Bhadoi* is being harvested in Sasseram and Bhabuah with an outturn of about four annas. Paddy prospects good. Prices stationary.
	Buxar ...	1·20	
	Bhabuah ...	0·65	
	Sasseram ...	Nil	
29	Durbhunga „ 6, '90	0·18	Weather—hot and close. Harvesting of *marua* and *makai* in progress; outturn expected to be from 8 to 12 annas on an average. Bagmati has again risen, and crops on low-lying lands submerged. Rice crop elsewhere doing well. Prices rising.
	Somastipur ...	1·74	
30	Muzufferpur „ 6, '90	Nil	The week has been dry, and no sign of rain at the time of report. Bagmati has risen and flooded a large area of country. Extent of damage cannot at present be ascertained. *Makai* is being being gathered. Prices stationary.
31	Sarun „ 6, '90	Nil	Weather—fine and clear. In Sewan and Gopalgunge the *bhadoi* will be a 3-anna crop and the rice a 12-anna crop; elsewhere *nil*. Prospects of indigo khuntis very bad.
32	Chumparun „ 6, '90	Nil	Weather—fine and hot: the season is apparently changing. *Makai* ripening. *Bhadoi* rice and *kodo* being reaped. Winter rice coming on well. Prices almost stationary.
BHAGULPORE DIVN. 33	Monghyr „ 6, '90	0·02	Weather—hot and bright. Prospects of winter rice continue favourable. Harvesting of *bhadoi* finished. Average outturn about 5 annas.
	Begusarai ...	2·25	
	Jamui ...	1·23	
34	Bhagulpore „ 6, '90	Nil	Weather—clear. No rain except slight falls in northern parts and Banka. *Bhadoi* is being harvested; estimated outturn 12 annas. Prospects of winter rice generally good.
	Banka ..	0·51	
	Mudhepura ...	0·8	
	Soopool ...	1·9	
35	Purneah „ 6, '90	0·54	Weather—fine with passing showers. A break in the rains has favoured the *bhadoi* harvest. Over three-fourths of the early rice has been cut with an outturn of 14 annas. Winter rice promising well except in a few villages in the Arrareah subdivision and in the Bahadurgunge and Balrampur thanas. Damage by floods less than expected. Outturn of jute crop 14 annas.
	Kishengunge ...	6·37	
	Arrareah ...	2·36	
36	Maldah „ 6, '90	0·64	Weather—very hot. Harvesting of *bhadoi* paddy over. Jute is being cut; a 12-anna crop expected. Winter rice plants thriving. *Kalai* is being sown in certain places within the jurisdiction of Manickchak outpost. Prices of common rice continue to be from 12 to 17 seers per rupee.
	Chanchal ...	1·35	
	Shibgunge ...	0·16	
	Gajole ...	2·41	
37	Santhal Pergha. „ 6, '90	0·12	Weather—generally fine. Paddy benefited by the recent break, but more rain wanted in Deoghur. *Makai* has turned out a poor crop.
	Deoghur ...	0·7	
	Godda ...	0·13	
	Jamtara ...	2·42	
	Pakour ...	0·20	
	Rajmeha ...	0·57	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Sept. 6, '90	1·36	Weather—hot. Harvesting of *satika* paddy going on. *Sarad* paddy crop suffering from want of rain in the Jajpur subdivision as well as in the Ershama and Kishennagar outposts of the Sudder subdivision. Prospects elsewhere good.
		Pooree „ 4, '90	3·45	Weather—seasonable. Weeding of *sarad* crop going on. *Beali* is being harvested. The subdivisional officer reports that diseases called *kahalla* and *haldi goondi* have appeared in the *sarad* crop. Price of common rice ranges from 18 seers 6 chittacks to 21 seers per rupee.
		Khoorda ...	0·32	
	39	Banpur ...	2·07	
	40	Balasore „ 6, '90	0·29	Weather—hot and dry. Fairly good rain has fallen at Bhuddruck, but most parts of the Sudder subdivision are suffering greatly from drought. Prices rising.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Sept. 6, '90	Nil	Weather—fine and bright and very warm. Rice crop doing well, but more rain is now wanted. *Gundli, marua, goradhan,* and Indian-corn are being harvested: all below average. Prices about stationary.
	42	Lohardugga „ 6, '90	Nil	Weather—hot and cloudy. Reaping of *gundli* going on. Prospect of *bhadoi* good. Rain wanted for winter rice. No material change in prices of food-grains.
		Palamow (up to 1st Sept.)	3·10	
	43	Singbhoom Sept. 6, '90	1·34	Much more rain wanted, but there seems to be but little hope of any at present. No further damage reported to the rice crop, but unless good rain falls within the next week, much damage will be done. Price of common rice shews a tendency to rise.
	44	Manbhoom „ 6, '90	0·27	Weather—very hot. Break in the rains doing great harm to winter rice crop. Rain urgently wanted. Common rice selling at from 16 to 22 seers per rupee.
		Govindpore ...	0·24	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 9th September, 1890.

P. NOLAN.
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM (*Sorghum Vulgare.*		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch.
1	Burdwan .	14 8	14 8	12 8	...	...	...	12 0	12 0	11 4	15 15	15 9	13 14	.	...	...
2	Bankoora .	15 4	15 8	13 4	20 0	20 0	17 0	15 0	16 0	14 8	18 0	19 0	17 8	..	..	
3	Beerbhoom ..	17 0	16 8	16 0	...	...	...	13 8	13 8	12 12	16 8	16 8	14 4	...	...	...
4	Midnapore ..	11 0	11 0	13 6	...	...	...	13 0	13 0	12 0	16 0	15 8	16 0	...	...	...
5	Hooghly ...	13 0	13 0	13 0	...	...	..	8 0	8 0	8 0	13 0	13 0	12 0		...	...
	Howrah ...	...	...	...	...	...	...	10 0	9 0	10 0	13 4	13 4	12 8	.	...	...
	Central Districts.															
	Calcutta	13 9	13 8	13 5	17 4	17 8	16 10	8 15	9 2	8 13	13 1	13 8	13 5	17 6	18 7	15
6	24-Pergunnahs	14 8	15 0	15 3	18 12	18 0	16 8	8 0	8 0	7 0	14 0	13 4	13 0	...	...	...
7	Nuddea .	15 10	15 13	14 0	17 12	20 0	17 12	11 6	11 6	10 10½	13 0	13 0	13 9	...	.	...
8	Khoolna ...	...	...	...	...		...	10 8	11 3	10 12	12 8	13 1	12 12	...	..	..
9	Jessore .	13 4	13 4	12 6	.	...	...	11 0	11 0	11 0	12 0	14 0	12 0	...	...	...
10	Moorshedabad	16 0	16 12	14 0	..		..	10 0	10 0	10 0	15 0	14 8	13 0	...	...	...
11	Dinagepore	15 0	13 12	13 8	18 0	21 5	23 0	12 0	12 0	12 0	15 8	15 8	15 8	...	.	...
12	Rajshahye .	15 0	15 0	15 0	22 8	22 8	18 12	12 0	12 0	10 8	13 8	14 4	12 12	...	..	...
13	Rungpore .	13 5	13 5	13 5	.	.	...	9 6	9 6	9 7	13 5	13 5	10 5	...	...	...
14	Bogra ...	15 0	15 12	13 2	...	...	...	12 0	12 0	10 8	15 0	15 12	12 12	...	...	...
15	Pubna .	18 12	18 0	16 8	...			7 0	7 2	7 5	15 6	15 6	13 8	.	..	...
16	Darjeeling ..	8 0	8 0	10 0	10 0	10 0	10 0	5 0	5 0	5 0	11 0	11 0	11 0	..	...	...
17	Julpigoree .	14 0	13 0	11 0	16 0	16 0	16 0	8 0	8 0	8 0	14 0	16 0	13 0	..	...	...
	Eastern Districts.															
18	Dacca ...	12 0	12 0	13 0	13 0	13 0	26 0	12 0	12 0	12 0	14 0	14 0	12 12	...	...	...
19	Furreedpore ...	15 0	15 0	15 0	20 0	20 0	16 0	10 0	10 0	9 0	14 0	14 0	11 0.	...	...	...
20	Backergunge ...	...	...	...	...	...	...	11 10	11 14	11 4	13 4	13 5	12 8	...	...	...
21	Mymensingh ...	11 8	11 8	9 12	...	...	...	11 0	11 0	11 8	13 8	13 8	12 0	...	...	...

A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Ranegunge 10 seers.
B At Rampore Haut retail price of salt 9 seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 8 seers, Tumlook 8 seers, and Ghatal 11 seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 11 seers and Johanabad 10 seers 13 chittacks.
E In subdivisions retail prices of salt per rupee are : Barasat 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 1 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are : —Midnapore 10 seers, Kooshtea 10 seers, Chooadanga 10 seers, and Ranagh 9 seers 2 chittacks.
G In subdivision retail prices of salt per rupee are :—Satkhira 10 seers and Bagirhat 8 seers.
H In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.
I In subdivisions retail prices of salt per rupee are :—Lalbagh 9 seers, Jungipore 10 seers, and Kandi 11 seers.

Head-quarter Station Bazars of the Districts of Bengal on the 31st August, 1890.

S OF 80 TOLAHS.

RA OR CUMBU. (*Penicillaria spicatum typhoideum.*)		MARUA OR RAGI. (*Eleusine Coracana.*)		
Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	..
...	...	...	...	..
...	...	. .	...	.
...	.	...	...	...
.	...	...	...	...
...	...	...	...	...
12 7	11 13	...	...	.
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...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	13 0	13 0	12 0
...	...	...	...	...

	FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS.
of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
										BENGAL.
										Western Districts.
lb	S. Ch.	S Ch	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. a. p.	Rs. a. p	Rs. a. p	
2	100 0	100 0	100 0	A t 10-14-1½	t 10-14-1½	t 10-8-3	3 8 6	3 8 9	3 11 0	Burdwan.
8	40 0	240 0	240 0	10 4	10 4	10 0	3 15 0	3 15 0	3 15 0	Bankoora.
8	160 0	160 0	160 0	B 10 8	10 8	10 8	3 10 0	3 10 0	3 10 0	Beerbhoom.
0	120 0	120 0	160 0	C 10 8	10 8	10 6	3 13 0	3 13 0	3 13 0	Midnapore.
0	120	120 0	120 0	D 9 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.
8	100 0	100 0	100 0	10 8	10 0	10 8	3 9 0	3 11 6	3 10 0	Howrah.
										Central Districts.
.0	92 8	92 8	100 0	10 7	10 7	10 4	3 9 0	3 9 3	3 9 6	Calcutta.
0	100 0	100 0	100 0	E 10 8	10 4	10 8	3 5 6	3 7 0	3 9 6	24-Pergunnahs.
0	...	...	...	F 9 13	9 13	9 2	3 12 0	3 13 0	3 14 0	Nuddea.
	140	140 0	120 0	G 8 0	8 8	9 0	4 4 0	4 2 0	4 0 0	Khoolna.
0	160 0	160 0	160 0	H 9 1	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.
0	200 0	120 0	200 0	I 11 4	11 4	10 0	3 [illegible] 0	3 8 0	3 10 3	Moorshedabad.
0	160 0	160 0	160 0	J 10 0	10 0	10 0	4 0 0	4 0 0	3 15 0	Dinagepore.
0	240 0	24 0	240 0	K 9 9	9 0	9 9	4 0 0	4 2 8	4 0 0	Rajshahye
7	100 0	100 0	120 0	L 9 6	9 6	9 7	4 4 0	4 4 0	4 4 0	Rungpore.
	90 0	90 0	68 9	9 0	9 0	9 0	4 2 8	4 2 8	3 14 8	Bogra.
4	2 [illegible] 0	2 [illegible] 0	[illegible] 0	M k 8-11-2	k 8-11-2	k 9-2-2	3 15 0	3 15 0	4 0 0	Pubna.
0	120 0	120 0	120 0	N 6 8	6 8	7 0	5 12 0	6 0 0	5 0 0	Darjeeling
0	2 [illegible] 0	200 0	128 0	O 9 0	9 0	9 0	4 4 0	4 4 0	4 2 0	Julpigoree.
										Eastern Districts.
0	90 0	90 0	160 0	P 9 8	9 8	10 0	4 2 0	4 2 0	3 15 0	Dacca.
0	120 0	120 0	120 0	10 0	10 0	9 0	3 14 0	3 14 0	4 4 0	Furreedpore.
8	100 0	100 0	120 0	Q 10 10	10 0	10 0	3 12 0	3 14 0	3 14 0	Backergunge.
0	...	...	..	R 9 8	9 8	9 8	4 0 0	4 2 0	4 0 0	Mymensingh.

8 seers per rupee.
t per rupee are:—Nattore 9 seers and Nowgong 9 seers 9 chittacks.
t per rupee are:—Nilphamari 9 seers, Gaibanda 8 seers, and Kurigram 8 seers.
10½ seers per rupee.
seers per rupee.
tta) retail price of salt 8 seers per rupee.
t per rupee are:—Manickgunge 9 seers, Moonsheegunge 8 seers 14 chittacks, and Netro-

lt per rupee are:—Patuakhali 9 seers, Perosepore 9 seers, and Bhola 8 seers.
t per rupee are:—Kishoregunge 8 seers, Tangail 10 seers, Jamalpore 10 seers, Sherpore 8 seers,

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	10 0	...	...	...	11 0	11 0	9 0	14 12	14 12	13 0	..	...	..
23	Noakholly ...	...	...	...	..	...	...	11 0	11 0	11 0	12 0	12 0	12 0	...	...	...
24	Tipperah ...	11 7	14 8 5/11	12 0	.	.	.	8 6¾	8 14	13 0	12 5	13 5	14 0		..	...
25	Chittagong Hill Tracts.	..	...	...	...	...	...	11 6½	11 6½	9 11	12 5	12 5	10 0	...	...	...
	Hill Tipperah	6 0	6 8	6 0	..	..	..	9 0	8 0	8 0	14 0	14 0	13 0	..	...	..
	BEHAR.															
26	Patna ...	16 12 / 15 12	Red. 16 12 / White. 15 12	... / 16 8	19 8	21 8	19 0	10 0	10 8	10 0	15 5	15 12	13 8	19 8	22 0	19 0
27	Gya ...	15 8	15 0	14 8	20 0	20 0	20 0	11 0	11 0	9 8	15 0	15 0	12 0	...	...	...
28	Shahabad ...	16 0	16 0	15 0	20 0	21 0	17 0	8 0	8 0	9 0	15 0	15 0	12 8	...	...	20 0
29	Durbhunga ...	15 6	16 8	13 12	17 9	19 12	17 2	11 0	11 0	9 2	15 4	16 8	12 0	...	...	17 2
30	Muzufferpore ...	17 0	17 0	14 0	20 0	20 0	16 8	9 0	11 0	9 0	15 0	14 0	12 0	...	...	...
31	Sarun ...	15 12	15 8	15 0	18 0	19 0	18 0	8 4	8 8	8 4	12 14	13 0	11 0	...	...	...
32	Chumparun ...	17 0	17 0	13 0	22 0	22 0	16 0	9 0	8 0	7 0	17 0	16 0	12 0	.	...	...
33	Monghyr ...	17 13	17 13	15 12	21 0	21 0	17 13½	11 8	18 8	10 8	14 11	14 11	12 1	...	...	...
34	Bhagulpore ...	17 11	17 11	16 6	21 7	22 11	17 10	Old. 10 1 / New. 12 10	Old. 10 1 / New. 12 10	10 11	13 7 / 15 2	Old. 13 14 / New. 16 6	12 10 / ...	...	.	...
35	Purneah ...	18 0	18 0	15 0	...	...		15 0	15 0	10 0	18 0	17 0	11 0	..	.	...
36	Maldah ...	18 0	18 0	16 0	...	...	...	12 0	9 0	10 0	14 0	15 8	13 0	...	..	...
37	Sonthal Perghs.	13 0	13 0	12 8	...	...	...	13 0	13 0	12 0	16 0	17 0	15 0	...	.	...
	ORISSA															
38	Cuttack ...	15 12	15 12	11 13	..	.	...	10 8	10 8	10 8	18 6	18 6	15 12	...	..	...
39	Pooree ...	11 8	10 8	10 8	...	...	...	13 6	13 12	11 13	21 0	18 6	14 7	..	..	...
40	Balasore ...	15 0	15 0	14 0	18 0	18 0	18 0	12 0	12 0	13 0	17 0	18 0	17 0	.	..	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	14 0	14 0	11 8	18 0	18 0	...	9 0	9 0	8 0	16 0	16 0	15 0	...	...	...
42	Lohardugga ...	15 0 / 9 0	Red. 13 4 / White. ...	11 0	...	16 0	...	14 8	14 8	12 0	Ordinary. 16 12 / Coarse. 19 0	18 0 / 20 0	15 0 / ...	...	...	...
43	Singbhoom ...	12 0	12 0	10 0	20 0	20 0	20 0	16 0	16 0	16 0	20 0	20 0	20 0	..	...	...
44	Manbhoom ...	14 8	13 5	12 0	...	...	...	13 0	12 0	12 0	19 0	18 0	18 0	...	...	...

S At Fonny Hât retail price of salt 8½ seers per rupee.
T In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Sasseram 10½ seers, and Bhabuah 9½ seers.
U At Samastipore retail price of salt 10 seers per rupee.
V At Hajipore retail price of salt 9½ seers per rupee.
W At Bettiah retail price of salt 9½ seers per rupee.
X In subdivisions retail prices of salt per rupee are :—Begusarai 9½ seers and Jamui 9 seers.

CALCUTTA,
The 9th September, 1890.

…ricts of Bengal on the 31*st August*, 1890—(concluded).

F 80 TOLAHS.

…OR CUMBU. (…tum typhoideum.)		MARUA OR RAGI. (*Eleusine Coracana.*)		
…next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
Ch. S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
… …	… …	… …	… …	… …
… …	… …	… …	… …	… …
… …	… …	… …	… …	… …
… …	… …	… …	… …	… …
… …	… …	… …	… …	… …
… …	… …	25 0	20 0	…
… …	… …	… …	… …	…
… …	… …	… …	… …	…
… 18 4	27 8	25 4	20 9	
… …	… …	… …	… …	…
… …	… …	20 0	21 0	20 0
… …	… …	… …	… …	…
… …	… …	… …	… …	…
… …	… …	… …	… …	…
… …	… …	… …	… …	…
… …	… …	… …	… …	…
… …	… …	… …	… …	…
… …	… …	… …	… …	…
… …	… …	29 8	29 0	28 0
… …	… …	26 0	40 0	35 0
… …	… …	… …	… …	…
… …	… …	… …	… …	…

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…next preceding return.	FIREWOOD. Present return.	FIREWOOD. Next preceding return.	FIREWOOD. Corresponding return of last year.	SALT. Present return.	SALT. Next preceding return.	SALT. Corresponding return of last year.	WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT. Present return.	SALT. Next preceding return.	SALT. Corresponding return of last year.	DISTRICTS
	Ch. S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
							Eastern Districts—concluded.			
	110 0	110 0	100 0	10 0	10 0	10 0	3 14 0	3 14 0	3 11 0	Chittagong.
	…	…	…	S 9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
	…	…	…	9 6½	9 6½	9 0	4 3 0	4 4 0	4 4 0	Tipperah.
	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 12 0	Chittagong Hill Tracts.
	…	…	…	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
							BEHAR.			
	140 0	120 0	130 0	10 0	10 0	10 0	3 10 0	3 10 6	3 13 0	Patna.
	200 0	200 0	200 0	9 0	9 0	9 2	4 0 0	4 1 0	4 2 0	Gya.
	120 0	120 0	120 0	T 10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Shahabad.
	160 0	160 0	160 0	U 11 0	10 0	11 8	3 8 0	3 8 0	3 6 0	Durbhunga.
	160 0	160 0	160 0	V 10 0	10 0	10 0	4 0 0	4 0 0	3 12 0	Mozufferpore.
	120 0	120 0	160 0	10 4	10 0	10 0	3 14 0	4 0 0	3 14 0	Sarun.
	160 0	160 0	160 0	W 10 0	10 0	9 8	3 14 0	3 14 0	4 0 0	Chumparun.
	168 0	147 0	126 0	X 10 3	10 3	9 15½	3 11 3	3 11 0	3 14 6	Monghyr.
	125 3	125 8	164 0	10 1	10 1	10 1	3 12 10	3 12 10	4 0 0	Bhagulpore.
	130 0	130 0	…	Y 9 8	9 0	9 8	4 7 0	4 7 0	4 7 0	Purneah.
	160 0	120 0	140 0	9 8	9 8	9 8	4 2 0	4 0 0	4 0 0	Maldah.
	200 0	200 0	200 0	9 8	9 0	9 4	3 14 0	3 14 0	4 2 0	Sonthal Perghs.
							ORISSA.			
	80 0	80 0	80 0	10 0	9 0	11 0	4 0 0	4 6 0	3 12 0	Cuttack.
	80 0	80 0	80 0	Z 9 13	10 0	10 8	3 12 0	3 10 0	3 12 0	Pooree.
	160 0	160 0	160 0	Z1 10 0	10 0	10 0	3 14 0	3 14 0	3 14 0	Balasore.
							CHOTA NAGPORE.			
							South-West Frontier Agency.			
	240 0	240 0	320 0	8 8	8 0	8 0	4 4 0	4 4 0	4 8 0	Hazaribagh.
	120 0	120	180 0	Z2 9 0	9 0	7 8	4 3 0	4 6 0	5 0 0	Lohardugga.
	240 0	300	200 0	8 0	8 0	7 0	4 12 0	4 12 0	5 8 0	Singbhoom.
	200 0	200 0	200 0	Z3 9 14	9 2	9 0	3 12 0	4 0 0	4 6 0	Manbhoom.

…lt per rupee are:—Kishengunge 8 seers and Arrareah (at Ranigunge) 10 seers.
…ice of salt 8 seers per rupee.
…9 seers per rupee.
…nigunge) retail price of salt 8·15 seers per rupee.
…t 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Sal

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A P	R. A. P.	R A P	R A P	R A P.	R. A P.	R A. P	R A P	R A P	R A. P.	R. A P	R. A. P.
1	Calcutta ..	2 10 9	2 11 0	2 12 0	2 1 2	2 0 7	2 3 0	4 3 6	4 1 10	4 4 9	2 12 7	2 11 4	2 12 3
2	Serajgunge ...	2 3 0	2 4 0	2 2 0	...	...	...	4 12 0	4 12 0	4 8 0	2 12 0	2 10 0	2 12 0
3	Dacca ...	3 4 0	3 4 0	3 0 0	3 0 0	3 0 0	1 8 0	3 4 0	3 4 0	3 4 0	2 13 0	2 13 0	3 0 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 0 0	3 4 0	2 12 0	2 12 0	3 0 0
5	Chittagong ...	3 8 0	3 8 0	3 12 0	...	...	...	3 8 0	3 8 0	4 4 0	2 12 0	2 12 0	3 0 0
6	Patna ...	2 5 6 (Red.) / 2 8 0 (White.)	2 5 6 / 2 8 0	... / 2 6 0	2 0 0	1 13 0	2 0 0	3 15 0	3 12 0	3 14 0	2 9 6	2 8 0	2 14 6
7	Balasore ...	2 8 0	2 8 0	2 10 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 0 0	2 5 0	2 0 0	2 4 0
8	Pooree ...	.	..	...	...	.	.	...	...	...	1 14 3	2 2 9	2 6 0
9	Cuttack ...	2 5 0	2 5 0	3 4 0	...		...	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	2 5 0

CALCUTTA,
The 9th September, 1890.

he undermentioned Marts of Bengal on the 31st August, 1890.

PRICES PER MAUND

CHOLUM. (*Vulgare.*)		BAJRA OR CUMBU. (*Pennisetum typhoideum.*)		
Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
14 8	2 6 0	3 5 0	2 15 4	3 2 0
...	...	..	...	...
...	...	..	...	...
.	...	...	...	...
...	...	...	...	...
12 0	2 0 0	...	. .	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...

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IZE.	ARHAR OR THUR. CAJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
0 0	2 2 8	2 3 4	2 0 8	0 5 9	0 5 9	0 5 6	3 9 0	3 9 3	3 9 6	Calcutta.
...	...	...	...	...	...	...	3 11 0	3 11 0	3 14 0	Serajgunge.
...	3 8 0	3 8 0	2 6 0	0 6 0	0 6 0	0 4 0	4 2 0	4 2 0	3 15 0	Dacca.
...	3 8 0	3 8 0	3 12 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Naraingunge.
....	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 11 0	Chittagong.
10 0	1 14 6	1 12	1 13 0	0 6 0	0 5 6	0 5 0	3 10 0	3 10 6	3 13 0	Patna.
...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	3 14 0	Balasore.
...	...	...	...	...	...	...	3 12 0	3 10 0	3 12 0	Pooree.
...	1 11 0	1 10 0	2 2 0	0 8 0	0 8 0	0 8 0	4 0 0	4 6 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF MARTS.	STOCK IN HAND AS COMPILED ON—												
	1st week of Sept. 1889	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890	1st week of July 1890.	1st week of August 1890.	1st week of Sept. 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Baliaghatta	6,62,000	5,66,000	4,54,000	2,96,500	3,00,000	5,48,000	9,31,100	15,22,500	10,94,000	9,85,500	7,54,000	6,42,000	5,41,000
Coltadanga	74,400	71,900	67,400	55,400	63,400	83,900	1,02,500	1,12,500	86,600	84,700	74,900	67,300	73,300
Chitpore, Golabaree, Coomertooly, Hatkhola, and Culpy Ghát.	5,76,300	6,74,100	6,33,300	5,86,000	6,00,400	5,98,900	5,83,800	5,91,600	5,37,800	4,79,200	4,96,100	5,10,500	6,07,500
Pathuriaghatta, Posta, and Jorabagan.	4,000	5,000	8,000	3,000	4,000	5,000	4,000	3,000	4,000	3,500	4,000	3,000	4,000
Tallygunge, Chitlah, Kidderpore, and Moochigunge.	72,500	64,550	65,200	68,100	82,750	98,100	1,21,500	1,32,550	1,32,900	1,19,450	1,04,700	96,000	94,200
21 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 2,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Shuddreesur, and Chandernagore.	14,265	14,383	13,410	14,080	25,425	19,606	33,469	31,225	19,369	22,762	45,879	55,887	45,481
Total ...	18,93,465	18,25,932	17,3 ,310	15,13,080	15,63,975	18,43,506	22,66,369	28,77,375	23,61,609	21,85,112	19,69,579	18,65,187	18,55,481
On Railway premises on both sides of the river.	9,606 (on 3rd Sept. 1889.)	8,208 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd Dec. 1889.)	28,007 (on 3rd Jan. 1890.)	26,935 (on 3rd Feb. 1890.)	47,988 (on 3rd Mar. 1890.)	24,996 (on 3rd Apl. 1890.)	24,633 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,553 (on 3rd July 1890.)	2,371 (on 3rd August 1890.)	13,834 (on 3rd Sept. 1890.)
On boats unloaded ... By Port Commissioners' returns.	25,33 (1st to 3rd Sept. 1889.)	17,852 (5th to 7th Oct. 1889.)	21,324 (1st to 3rd Nov. 1889.)	20,65 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb. 1890.)	56,599 (1st to 3rd Mar. 1890.)	37,745 (1st to 3rd Apl. 1890.)	30,197 (1st to 3rd May 1890.)	24,756 (1st to 3rd June 1890.)	23,351 (1st to 3rd July 1890.)	54,778 (1st to 3rd August 1890.)	27,167 (1st to 3rd Sept. 1890.)
By Canal returns	19,881 (1st to 3rd Sept. 1889.)	45,922 (5th to 7th Oct. 1889.)	14,718 (1st to 3rd Nov. 1889.)	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (3nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	58,619 (1st to 3rd Apl. 1890.)	23,975 (1st to 3rd May 1890.)	23,957 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)	18,546 (1st to 3rd August 1890.)	32,466 (1st to 3rd Sept. 1890.)
Grand total of Stocks ...	19,48,289	18,97,914	17,61,363	15,49,242	17,90,438	21,81,281	25,05,503	29,98,735	24,43,474	22,45,752	20,30,831	19,40,892	19,28,998
Probable stock available for exportation by sea.	9 lakhs	8½ lakhs	7½ lakhs	5 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs	14 lakhs	12 lakhs	9½ lakhs	9 lakhs	8½ lakhs

STATISTICAL DEPARTMENT,
The 8th September, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of August 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29·627		
The average pressure of August from 24 years' registers ...	29·598		
The highest pressure in the month	29·752	26th	10
The lowest pressure in the month	29·463	10th	16
The range of pressure	0·289		
	Hours.		
The total number of hours of bright sunshine during the month	122·3		
The maximum possible number of hours of sunshine ...	398·4		
	°		
The mean temperature of the month	82·5		
The average temperature of August from 24 years' registers	83·1		
The highest temperature in the month	89 8	4th and 18th.	
The lowest temperature in the month	74·6	22nd.	
The range of temperature during the month	15·2		
The mean daily range of temperature	9·8		
The greatest range of temperature in one day	14·5	5th.	
	Per cent.		
The mean humidity of the month	87		
The average humidity of August from 24 years' registers ...	86		
	Inches.		
The mean vapour pressure of the month	0·964		
The average vapour pressure of August from 9 years' registers	1·002		
The mean cloud proportion of the month	7·41		
The average cloud proportion of August from 13 years' registers	8·09		
The total rainfall of the month	9·04		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	8 85		
The average fall of August from 48 years' registers ...	13·94		
The greatest fall in 24 hours	1·74	5th.	
	Days.		
The number of rainy days in the month	23		
The average number of rainy days in August from 24 years' registers	25		
	°		
The mean maximum equilibrium temperature of solar radiation during the month	144·3		
The mean difference of sun and air temperatures	57·5		
The greatest sun temperature	155·7	4th.	
The greatest excess of sun over air temperature	67·9	13th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	75·7		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	1·8		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	3·3	17th.	
	Miles		
The mean movement of the wind per day	67·6		
The greatest movement of the wind in one day	142·0	28th.	
The greatest movement of the wind in one hour	15 0	28th noon to 1 P.M.	

The number of hours with winds from each of the 8 points—

N. 2, N.E. 9, E. 50, S.E. 134, S. 241, S.W. 134, W. 16, N.W. 1, Calm 157.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 8 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0·6 higher; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 8th September 1890.

Meteorological Report of the Province

Meteorological Division.	District.	Representative stations.	Station Observations.														
			Air Pressure.					Temperature.					Humidity.		Cloud.		
			Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 3 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.	
Orissa.	Pooree	Pooree ...	29·785	29·575	29·672	9·684	—	90·7	76·6	88·0	70·0	83·5	—	86	—	7·5	—	16
		Gopalpore ...	29·737	29·562	29·659	29 681	+·042	90·2	76·8	86·6	78·5	83·1	—0·1	85	—	8·1		4
		False Point ...	29·733	29·560	29·651	29·683	+·023	89·5	75·1	86 3	77·5	81·9	—0·7	86	—2	8·0	—	11
	Cuttack	Cuttack ..	29·685	29·517	29 609	29·691	+·036	91·9	75·8	88·9	78·0	83·5	—0·3	80	—2	8 0	+0·6	10
	Balasore	Balasore ...	29·686	29·513	29·621	29·680	+·034	90·4	74·8	87 1	77·3	82·2	0	87	—	3·6	—	8
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs	Saugor Island ...	29·739	29·556	29·656	29·682	+ 030	91·2	77 0	87·5	79·5	83·5	+0·1	89	—3	9·0	+0·7	9
	Midnapore	Midnapore ...	29·593	29·452	29·527	29·677	+·020	93 3	76·1	89·4	77·6	83·5	+ 0·5	83	—	8·7	—	5
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta ...	29·745	29·581	29·661	29·683	+·035	90·0	75 7	86 8	77·4	82·1	— 0 5	88	—1	7·6	—1·2	9
	Burdwan	Burdwan ...	29·663*	29·486*	29·583*	29·683*	+·035	92·6	77·4	89·3	79·2	84·3	+0·3	86	—1	8·7	+0·1	7
	Bankoora	Bankoora ...	29·424	29·267	29·350	29·650	+·023	92·1	75·1	88 0	77·8	83·4	+0·8	89	—	7·4	—	4
	West Burdwan ... ... Beerbhoom	Ranigunge ..	29·414	29·232	29·334	29·669	+·031	92·5	75 4	88·0	77·8	82·9	—0·2	90	—	7·2	—	9
	Moorshedabad	Berhampore ..	29·693	29 534	29·605	29·672	+·019	90·6	76·3	87·3	78·4	82·9	—0·6	92	+4	9·3	+0·1	11
	Nuddea	Krishnagore ...	29 716	29·545	29·629	29·677	+·039	?	?	?	?	?	?	?	—	7·9	—	8
	Jessore and Khoolna ...	Jessore ...	29·751	29·559	29·655	29·689	+·026	91·2	76·4	88·2	78·8	83·5	· 0·2	91	+1	9·0	—0·2	12
East Bengal.	Chittagong	Chittagong ..	29·757	29·577	29·667	29·757	+·030	87·6	72·0	80·6	73·1	79 9	—0·7	89	—1	6·6	—1·3	20
	Chittagong Hill Tracts	Demagri ..	Observations not received.															
	Backergunge	Barrisal ...	29·761	29·603	29·687	29·699	+·035	90·3	75·8	85·8	77·8	81·8	+0·4	90	—	8 0†	—	7
	Noakholly	Noakholly ...	29·783	29·614	29·698	29·742	+·041	88·5	74·3	84·4	76·7	80·6	—0·5	90	—	5·5	—	21
	Furreedpore	Furreedpore ...	29·761	29·594	29·673	29 713	+·030	88·5	76·9	85·4	79·4	82·4	—0·1	89	—	6·0	—	12
	Dacca	Dacca ..	29·775	29·585	29·680	29·703	+·025	90·1	75·7	86·9	77·9‡	82·4‡	—0·9	90	—1	9 2	+1·0	10
	Tipperah	Commillah ...	29·777	29·605	29 694	29·730	+·031	89·9	72·8	86·5	75·9	81·2	—0·4	89	—	5·9	—	13
	Mymensingh	Mymensingh ...	29 747	29·580	29·653	29·711	+·021	90·2	75 1	85·7	77·5	81·6	—0·9	92	—	7·9	—	12
North Bengal.	Bogra	Bogra ...	29·709	29·552	29 615	29·673	+·044	91·3	74·1	87·3	77·7	82·5	—0·5	90	—	7·3	—	19
	Pubna	Serajgunge ...	29·746	29·572	29·648	29 695	+·018	87·6	75·7	85·2	78·2	81·7	—1·2	92	—	8·5	—	8
	Rajshahye	Rampore Beauleah.	29 708	29·538	29·610	29·680	+·040	91·3	75·6	86·2	79 0	82·6	—0·1	88	—	8·8	—	7
	Maldah	Maldah ...	29·696	29·514	29·588	29·670	+·072	91·7	76·2	88·1	78·6‡	83·5‡	—0·9	88	—	5·5	—	18
	Dinagepore	Dinagepore ...	29·660	29·493	29·562	29·682	+·007	92·6	75·1	87·7	78·0	83·3	0	90	—	8·5	—	18
	Rungpore	Rungpore ..	29·682	29·516	29·577	29·703	+·033	92·8	73·7	88·1	77·5	82·8	—0·4	89	—	3·4	—	11
	Julpigoree and Cooch Behar.	Julpigoree ...	29·508	29·346	29·406	29·695	+·031	91·4	73·1	85·6	75·6	80·6	—1·5	96	—	3·6	—	30
	Darjeeling Hill Tracts...	Darjeeling ...	22·978	22·802	22·905	—	—·006	69 6	54·0	64·0	56·4	60·2	—1·3	97	+4	9·6	+0·7	30
North Behar.	Purneah and North Bhagulpore.	Purneah ...	29·635	29·482	29 543	29·670	+·022	91·2	73·4	87·4	77·2	82·3	—1·4	91	+3	7·9	+0 4	19
	Mozufferpore	Mozufferpore ...	29·529	29·379	29·466	29·646	—	91·3	74·2	87·1	78 8	83·0	—	89	—	6·2	—	14
	Durbhunga	Durbhunga ...	29·587	29·422	29·501	29·658	+·021	90·9	88·4	87·4	77·2	82 3	—1·6	88	+2	6·8	+0·9	15
	Chumparun	Motihari ...	29·523	29·389	29·447	29·675	+·041	93·2	73·8	88·1	77·7	82·9	—0·7	85	—	7·4	—	12
	Sarun	Chupra ...	29·535	29·379	29·450	29·644	+·018	91 3	73·6	87·2	79·4	83·3	—0·3	89	—	4·7	—	11
South Behar.	Shahabad	Dehree ...	29·391	29 2·8	29·295	29·651	+·017	90 3	74·0	86·6	77·7	82·2	—0·4	88	—	6·9	—	14
		Buxar ...	29·491	29 359	29·413	29 656	+ 029	90·9	75·3	86·5	77·3	81·9	—1·7	91	—	8·0	—	16
		Arran ...	29·545§	29 391§	29·460§	29·656§	+·039	93·4	74·1	87·0	77·9	82·9	—1·2	89	—	5·8	—	12
	Gya	Gya ...	29·360	29·184	29·276	29·659	+·026	92·4	73·8	87·5	78·2	82·8	—1·5	87	+5	7·2	—1·7	20
	Patna	Bankipore ...	29·568	29·386	29·469	29·653	+·014	92·4	72·7	87·4	78·4	82 9	—1·6	88	+3	9·2	+1·0	17
	South Bhagulpore and Monghyr.	Bhagulpore ...	29·582	29·396	29·488	29·650	+·022	90·2	73·0	80·7	78·0	82·4	—1·3	91	—	8·4	—	17
	Sonthal Pergunnahs ...	Naya Doomka...	29·358	29·077	29·173	29·671	+·033	90·1	72·8	86·5	76·7	81·6	—0·7	85	—	4·1	—	19
Chutia Nagpur.	Hazaribagh	Hazaribagh ...	27·742	27·569	27·667	29·675	+·023	86·9	68·7	82·5	72·2	77·4	—0·9	90	+4	9·7	+0·3	10
	Lohardugga ... ... Manbhoom	Ranchee ...	27·623	27·453	27·548	29·672	+·024	86·5	68·9	82·6	71·0	76·8	—0·5	86	—	9·3	—	8
	Singbhoom	Chyebassa ...	28·983	28·790	28·883	29·648	+·018	92·4	71·7	88·1	76·0	82·1	—0·1	86	—	7·3	—	8
Assam	Assam	Sibsagar ...	29·688	29·543	29·601	29·739	+·018	94 0	74·5	87·6	77·2	82·4	—1·5	94	+2	9·6	+0·6	19
		Dhubri ...	29 664	29·530	29 586	29·702	+·020	90·3	74·3	84·3	77·3	80·7	—1·5	92	—1	9·3	+1·9	14
		Silchar ...	29·721	29·561	29·639	29·745	+·023	93·0	74·3	87·5	76·4	82·0	—0·9	91	+0	9·6	+1·2	20

* Mean of 25 day
† " 26 "
‡ " 29 "

gal for the month of August 1890.

DISTRICT OBSERVATIONS.

RAINFALL.												
Of month.					Since 15th May 1890.					Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
trict.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.			
	11·88	—1·93	18·8	19·1	38·11	34·00	+4·11	58·9	51·7	Pooree ... Gopalpore ... False Point ...	Pooree	Orissa.
7·06	11·02	—3·06	16·0	18·1	35·04	34·84	+0·20	55·6	52 2	Cuttack ...	Cuttack	
7·04	11·41	—3·47	14·5	17·7	32·13	35·99	— 3·26	52·2	51·6	Balasore ..	Balasore	
9·72	14·31	—4·59	18·3	20·1	33·96	41·83	—7·87	60·0	58·4	Saugor Island ..	South-West Midnapore and South 24-Pergunnahs.	South-West Bengal.
5·49	13·93	—8·44	14·7	17·6	35·26	38·25	—2·99	58·3	51·6	Midnapore ...	Midnapore	
8·98	12·94	—3·96	16 5	21·6	37·29	37·87	—0·58	60·0	63·7	Calcutta ...	24-Pergunnahs, Howrah, and Hooghly.	
6·62	12·10	—5·48	16 3	18·4	44·18	34·18	+10·00	60·0	54·1	Burdwan ...	Burdwan	
4·85	14·30	—9·51	13 3	20·0	37 69	39 84	—2·15	56·6	58·3	Bankoora ...	Bankoora	
10·25	13·10	—2 85	18·3	20·3	45·24	38·11	+7·13	64·2	59·8	Ranigunge ...	West Burdwan and Beerbhoom.	
10·95	11·88	—0 93	17·8	18·6	42·94	35·04	+7·90	59 4	55·8	Berhampore ...	Moorshedabad	
8·57	12·03	—3·46	19·0	18·2	36 16	35·50	+0 66	62 4	56·1	Krishnagore ..	Nuddea	
9·34	11·98	—2 64	18·8	18·8	40·28	38·86	+1·42	67·0	61 1	Jessore ...	Jessore and Khoolna ...	
24·42	23·45	+0 97	24 5	23·5	103·40	89·42	+12·98	77·0	76·5	Chittagong ...	Chittagong	East Bengal.
	17·00		24·5	24·6		58·06		76·5	77·1	Demagri ...	Chittagong Hill Tracts	
12·37	15 61	—3·24	23·0	23·6	54·19	56·68	—2·49	76 8	75·4	Barrisal ...	Backergunge	
24·44	24·67	—0·23	26·0	24·6	78 03	80 03	—2·00	82 0	75 7	Noakholly ..	Noakholly	
10·04	12·06	—2·02	15·3	19·5	33·79	40·85	—7·06	66·3	63·0	Furreedpore ...	Furreedpore	
12·55	13·08	—0·53	22·3	21·3	49·40	44·45	+4·95	76·0	66·5	Dacca ...	Dacca	
10·75	15·97	—5·22	19·8	21 8	48·20	56 49	—2·29	69·1	69·0	Commillah ...	Tipperah	
12·88	13·84	—0·96	19·4	20·2	47·26	40 65	+7·61	70·2	64·8	Mymensingh ...	Mymensingh	
14·06	11·63	+2·43	22·3	17·8	48·25	41·75	+6·50	70 1	56 6	Bogra ...	Bogra	North Bengal.
9·10	12·00	—2·90	24·5	17·5	36 37	37·52	—1·15	73·0	57·6	Serajgunge ...	Pubna	
8·09	11·08	—3·08	22 3	18·1	49·84	37·03	+12·81	69·9	54·7	Rampore Beauleah.	Rajshahye	
16·59	12·02	+4·57	23·5	20·4	41·56	38·66	+2·90	70 0	60·6	Maldah ..	Maldah	
16·10	11·54	+4·56	18·0	19·7	52·91	41·28	+11·63	61·2	58·1	Dinagepore ...	Dinagepore	
15·11	12·07	+3·04	10·0	16·4	62·09	54 76	+ 7·33	70·8	55 8	Rungpore ...	Rungpore	
36·43	22·45	+13·98	22 6	20·8	114·86	83·20	+31·66	86·0	72·4	Julpigoree ...	Julpigoree and Cooch Behar.	
31·71	26·98	+4·73	27·3	24·7	128·75	94 88	+35·87	97·1	82 5	Darjeeling ...	Darjeeling Hill Tracts.	
18·87	13·08	+5·19	19·8	[illegible]·9	60·35	41·99	+18 36	63·8	51·2	Purneah ...	Purneah and North Bhagulpore.	North Behar.
12·82	10·08	+2·74	20·7	15·3	43·16	30·28	+12·88	59·0	41·0	Mozufferpore ..	Mozufferpore	
14·88	10·75	+4·13	20·5	15·4	49·91	31·73	+18 18	60·2	41·6	Durbhunga ...	Durbhunga	
13·02	11·94	+1 98	16 0	14·4	53·67	33·05	+25·62	54 0	39·5	Motihari ...	Chumparun	
14·46	10·29	+4·17	16·7	14·7	45·94	30·01	+13·93	52·1	41·0	Chupra ...	Saran	
13·43	11·47	+1·90	22·4	15·6	40·78	28·69	+12·09	59·0	43·0	Dehree ... buxar ... Arrah ...	Shahabad	South Behar.
20·10	11·73	+8·37	22·8	14·8	51·66	30·95	+20·71	58 9	41·0	Gya ...	Gya	
14·04	10·48	+3·56	20·3	14·9	39·20	30·12	+9·08	54·7	43·0	Bankipore ...	Patna	
12·23	11·06	+1·17	19·6	16·5	43·93	31·23	+12·70	59·4	47·5	Bhagulpore ...	South Bhagulpore and Monghyr.	
12·45	11·91	+0·54	20·7	18·4	45·87	36·14	+9·73	65·2	54·6	Naya Doomka...	Sonthal Pergunnahs ...	
9·70	13·72	—4·02	18·8	20·5	39·95	36·80	+3·15	61·0	57 4	Hazaribagh ...	Hazaribagh	Chota Nagpur.
14·27	13·31	+0·96	20·7	21·6	38·99	35 35	+3·68	60·3	59·3	Ranchee ...	Lohardugga	
7 60	13·20	—5·60	19·5	20·6	32·23	35·01	—2·78	64·0	60 0		Manbhoom	
5·48	15·83	—10·35	20·0	22·1	25·03	38·97	—13·94	61·0	64·5	Chyebassa ...	Singhbhoom	
										Sibsagar... ... Dhubri ... ... Silchar	Assam ...	Assam.

Table of Rainfall recorded at Stati

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
ORISSA ..	Pooree ...	Pooree ...	0·21	...	...	0·04	..	0·42	1·68	0 11	0·18	2·13	0·78	0·09	...	...	...	.	0·05	0·05	...
		Khurdah ...		...	...	0·01	0·30	0·28	0·71	.	0·09	0·06	0·32	0·31	0·13	...	...	0·19	...	0·20	...
		Banpur ...	0·22	...	0·09	0·35	0·46	0·40	0·02	0·16	2·00	0·94	0·08	..	0·05	0·04	..	...	...	0·32	0·47
		False Point ...	0·20	...	...	0·12	.		0·14	0·30	...	0·09	0.33	0·91	0·07	0·19	0·06	...	...	...	...
		Gop ...		...	...	...	0·30		...	...	...				...	...	...	...	...	...	...
		Satpara ...	0·50	...	...	...	0·20	...	0·80	...	...	2·15	0·45	0·48	...	0·10	...	...	...	...	...
		Pipli ...																			
	Cuttack ...	Jaratsingpore	1·40	...	...	0·80	0·15	0·20	...	...	0·53	1·50	.	0·20	0·03	...	...	...	...	...	0·97
		Banki ...	...	...	...	...	0·18	...	0·55	...	0·75	..	2·57	0·55	0·10	...	0·11	...	...	0·05	0·06
		Cuttack ...	.	0·13	...	...	0·70	0·10	0·96	.	1 35	1·24	0·49	0·90	0·20	0·74	0·50	..	...	..	..
		Kendrapara ...	1·47	0·32	...	...	...	0·09	0·20	0·01	..	0·14	0·47	0·67	0·34	0 03	..	0·04	...	...	0·01
		Jajpore ...	..	...	...	...	...	.	0·43	...	0·35	1·20	0 87	1 38	0·04	0·18	...	...	...	0·25	...
		Dharmsalla ...	0·10	...	...	...	...	0·70	0 30	0·80	0·70	0·62	1·15	.	0 25	...	...	...	...	...	...
		Salipore ...	...	...	...	0·42	...	0·22	...	0·12	0·43	0·13	0·50	0 28	0·45	...	...	...	...	...	...
	Balasore ...	Chandbali ...	0·10	...	...	0·05	...	0·93	0·40	0·23	..	...	2·15	0·78	0·15	0·14	...	...	..	...	...
		Bhuddruck ...	...	...	...	...	...	...	.	1·12	0·30	...	0·81	1·45	..	...	0·11	...	0·06	...	...
		Sorah ...	...	...	...	. .	..	1·00	0 70	0·50	.	3·04	2·02			...	...	...	1·40	...	...
		Balasore ...	...	...	...	0·03	.	0·31	1·20	1·11	1·18	0·12	0·37	1·30	0·24	0·04	...	...	0 09	...	...
		Jellasore ...	0·10	...	0·43	...	0·37	..	0·10	1·50	2·10	1·50	0·10	1·10	.	0·30	.	0·10		...	...
		Baripodah ...	2·40	...	...	...	0·21	0·41	0·08	0·43	0·73	0·10	...	0·66	0·43	...	0·27	...	0·05	...	0·42
BOUTH WEST BENGAL.	Midnapore ...	Contai ..	0·22	...	...	...	0·01	1·09	0·46	0·49	0·06	0·04	0·09	1·20	0·12	...	0·05	...	.	..	...
		Saugor Island	0·60	...	...	0·03	...	0·79	0·21	0·81	0·21	...	1·61	0·67	0·07	...	0·04	...	...	0·02	...
		Tumlook ...	. .	...	...	...	..	0·90	...	0·70	.	.	1·10	0·30	..	..	...	...	...	...	...
		Midnapore ...	0·09	0·10	0·14	...	0·06	...	0·44		0·51	0·17	0·17	0·30	0·78	0·08	...	...	...	...	...
		Ghatal ..	.	0 20	...	...	..	0·16	0·20	0·07	0·08	...	0·08	0·16	0·06	..	0·15	...	...	...	...
		Kukrahaty ...	0·29	..	...	...	0·17	0·14	0 12	0·85	...	...	0·91	1·46	0·89	0·07	0·16	...	...	..	0·11
		Garbeta ...	...	...	...	...	...	...	0·48	0·13	...	...	1·57	0·18	...	0·17	...	...	...	0·22	...
	24-Pergunnahs	Diamond Harbour.	1·22	...	...	...	0·15	0·60	0·10	1·02	...	.	1·42	1·66	0·44	...	...	...	...	...	1·12
		Canning Town	0 33	..	...	..	...	0·56	0·70	0·20	0·05	0·31	0·43	7·32	1·60	.	0·31	...	...	...	...
		Alipore Jail ...	0·14	0 01	...	..	0·02	1·79	0·80	0·49	...		0·45	1·06	0·72	0·04	...	...	...	...	...
		Barrackpore...	.	...	...	0·08	.	1·13	0·30	1·35	...	0·22	0·34	0·70	0·07	0·05	.	..	...	...	...
		Dum-Dum ...	0·28		...	..	..	2 15	0·34	0·42	...	...	1·01	0·98	0·44	0·09	0·57	0·09	...	...	0·08
		Barasat ...	0·50	0·07	...	0 82	...	1·95	0·10	0·29	0·10	...	0 78	0·72	0·46	0·14	.	...	...	...	...
		Bussorhat ..	...	0·26	...		..	0·40	...	0·54	0·50	...	0·36	0·98	1·75	..	2·68	...	..	...	0·09
	Howrah ...	Howrah ...	...	0·01	..	...	0·11	1·78	0·17	0·40	...	...	0·50	1·70	1·25	0·12	0·03	...	.	0·01	...
		Mohureka ...	...	...	0·02	...	...	0·77	0 04	1·82	.	..	0·20	0·52	1·93	...	0·02	...	.	..	...
		(*Oolooberiah*).																			
	Hooghly ...	Serampore ...	...	0·01	0·77	29·37	...	1·36	0·34	1·35		0·05	0 64	0·35	0·20	0·05	0·15	...	...	...	...
		Hooghly ..	0·38	.	...	...	...	1 86	0·05	1·25		0 03	0·26	0 94	0·20	...	0·06	..	...	...	...
		Jehanabad ...	...	0·22	...	...	...	2·84	0·35	0·34	1·18	...	0·85	1·70	0·11	...	...	0·02	...	...	...
	Burdwan ...	Culna ..		0·14	.	0·0.	0 ..	0·84	.	0·90	0·09	.	0·48	0·60	0·11	0·23	0·18	...	...	...	...
		Burdwan ...	0·19	0·36	0·07	...		0·02	2·90	0·09	0 21	0·03	1·31	0·12	0·36	0·04	0·19	...	...	...	...
		Cutwa ...	0·01	.	...	...	0·76	0 30	0 15	0·06	0·39	..	1·18	1·11	.	0·10	0·57	...	...	...	...
		Ranegunge ..	0·14	0·19	...	...	...	0·98	·17	0·71	0·05	0·71	0·93	2·61	0·02	0·08	0 08	0·02	...	...	1 14
		Mankur ...	0·58	0·06	...	...	...	0 52	0·21	0·34	0·06	...	0·45	2·25	0·44	...	0·27	0·12	...	...	0·10
	Bankoora ...	Bankoora ...	...	0·04	...	...	...	...	0·31	0·15	0·01	.	0·87	0·31	0·01	0·04	0·01	...	...	..	..
		Bishenpore ...	..	...	...		...	...	0·59	..	0·35	0·00	0·47	0·25	0·20	0·12	...	...	...	0·19	.
		Maliara ...	0 09	...	...	..	0·15	0 11	0·13	0·02	0·86	0·85	1·63	0·06	0·07	...	...	...	...	...	0·03
		Khatra ...	0·05	...	.	0·16	...	0·18	0·91	0·31	...	..	0·41	0·20	.	...	...	...	..	...	...
		Indas ..	...	...	...	...	...	...	.	1·14	...	..	0·87	0·09	1·17	...	...	...	...	...	...
		Kotalpore ...	...	...	...	...	...	...	1·14	..	0·08	.	1·52	...	...	...	0·40	...	..	...	...
		Anda ...	...	...	...	...	...		0·30	...	...	0·54	..	0·25	...	0·30	...	...	...	...	0·33
		Gangajalghati	...	...	...	...	...	1·06	0·57	0 23	...	0·05	0·23	1·19	...	.	...	...	...	...	...
		Raipore ...	0·22	...	..	...	...	0·29	1·72	0 28	.	..	1·27	0·15	.	0·22	...	...	...	...	...
		Sonamukhi ...	..	...	..	...	...	...	0·37	0 47	0·19	...	...	1·05	1·35	...	...	...	...	0·30	...
	Beerbhoom ...	Bh. Soory ...	0·12	0·02	...	...	...		0·37	0·50	...	..	0 31	0·59	0·05	0·25	0 01	0·61	..	...	...
		Hetampore .	0·08		...	...	...	0·50	0 21	..	..	0·60	0·54	1·10	..	0·10	...	...		0·17	0·54
		Rampore Haut	0·22	1·02	...		...	2·25	0·10	1·06	...	0·82	2·00	1·05	..	0·51	...	..	0·35		2·10
		Bolpur ...	0·96	...	...	0·09	.	...	0·62	0·06	...	...	1·21	1·95	0·27	0·05	0·36	0·22	.	...	0·53
		Murarai ...	...	0 18	...	...	0·30	...	1·50	0·90	...	...	1·30	...	...	...	...	0·25	1·25	0 30	...
	Nuddea ..	Ranaghat ...	0·02	.	0·07	...	..	1·26	0·25	0 12	.	0·32	0·21	0·30	0·22	..	0·12	0·08	...	...	...
		Kishnaghur ...	0·27	0·08	0·03	...	0·03	2·18	0·12	1·36	0·03	...	0·2	0·41	1·05	0·35	0·45	...	...	...	...
		Chooadanga ..	0·43	0·35	...	...	...	0·21	0·07	1 05	...	...	0·23	1·08	1·00	...	0·05	0·07	0·15	0·15	0·07
		Meherpore ...	0·30	0·15	...	0·17	...	1·65	0·25	0·70	...	...	0·25	1·65	0·30	...	0·70	0·70	...	...	...
		Kooshtea ...	0·50	0·10	...	...	...	0·38	0·51	0·08	0·05	0·03	0·20	1·85	0·20	...	...	0·60	0·70	...	...
	Khoolna ..	Satkhira ...	0·14	0·42	0·15	0·14	...	0 57	0·42	0·28	0·24	0 02	0·35	1·11	0·62	1·01	...	0·26	...	...	0·02
		Bagirhat ...	0·35	..	...	...	...	1·62	0·23	..	...	...	0·60	0·90	0·12	...	.	0·50	...	...	0·25
		Khoolna ...	...	0·56	0·04	...	...	1·35	0·61	.	..	...	0·03	0·41	0·43	...	0·35	0·08	...	...	0·29
		Nakipur ...	0·58	...	...	...	...	0·16	0·50	0·18	...	0·48		2·15	0 28	...	...	...	0·01	...	1·15
		Rampal ...	0·04	...	...	...	...	0·85	0·64	0·06	...	...	0·27	1·12	0·28	1·05	0·09	...	...	...	...
	Jessore ...	Narail ...	0·08	0·35	0·17	...	...	0·69	0·30	0·05	...	...	0·07	4·11	0·26	...	0·11	0·82	...	0·04	...
		Jessore ...	0·52	0·42	..	0·15	.	0·60	0·42	0·27	0·04	0·16	0·6.	4·62	0·53	0·70	0·29	0·12	...	...	...
		Jhenidah ...	0·12		0·12	0 16	...	0·41	0·39	0·10	0·18	0·16	0·09	1·48	0·27	...	0·19	...	...	0·25	0·06
		Magoorah ..	0·29	0·03		0·75	...	0·45	0·57	0 77	...	..	1·06	2·73	0 15	...	0·33	0·14	...	0·05	...
		Bongong ...	0·35	...	...	...	...	0·22	0 46	0·50	...	..	0·32	0·95	..	...	0·60	...	...	0·20	...
	Moorshedabad	Kandi ...	0·10	0·70	...	0·21	...	0·91	0·45	0·21	...	0·22	1·91	1·25	0·65	...	...	...	...	...	...
		Berhampore...	0·40	0·04	...	...	...	1·38	0·09	0·05	...	.	0·20	2·65	0·39	...	...	...	0·08	...	0·23
		Lalbagh ...	0·34	..	...	...	...	2 21	0·34	0·05	...	0·16	0·12	1·20	0·25	...	...	...	0·12	...	2·13
		Azimgunge ...	0·85	..	..	...	0·21	1·30	0 10	..	...	...	0·37	1·40	0·08	...	...	...	0·25	...	0·06
		Jungipore ...	0·60	2·00	0·06	...	...	2·41	0·05	0·15	...	...	0·58	0·13	0·35	0·70	.	0·12	0·41	...	0·16
		Lalgola ..	...	0·25	0·25	...		1·15	0·30	0·15	...	...	0 55	0·75	0·75	...	0·15	...	0·40	...	1·10
		Jiagunge ...	0·38	..	..	...	...	1 37	0·05	...											
		Akhriganj ...	0·06	0·04	...	...	...	2·47	0·17	...	0·46	0·08	0·51	1·45	0·47	...	0 34	...	...	0·30	...
		Patkabari ...	...	...	0·60	...	0·20	...	...	...	...	...	2·50	1·50	...	0·40	...	...	...	...	...
East Bengal	Chittagong ...	Cox's Bazar ...	0·10	...	...	..	0·20	0·10	0·10	0 98	0·03	0 40	2·30	2·09	0·20	...	0·05	0·24	0·15	2·45	2·58
		Chittagong ..	0·10	...	...	0·08	4·08	0·18	0·72	0·30	0 07	0·77	1·03	0·79	..	0·09	0·51	0·39	...	0·06	...
		Kutubdea ...	0·10	0·03	...	...	1·34	0·21	0·13	0·60	0·07	0·26	1·71	1·30	0·25	0·03	0·26	0·21	0·79	0·55	0·22
		Sabanya ...	...	...	...	0·19	2 85	0·31	0·51	1·52	0·30	1·10	0·80	1·50	0·25	0·07	0·56	0·53	...	0·49	0·06
	Chittagong Hill Tracts.	Ratgamati ...	0·45	...	1·15	4·05	0·20	0·65	0·34	0 10	1·11	0·09	0·14	...	0 13	0·40	0·12	0·24	0·11	..	...
		Bama ...	...	...	1·75	0·35	1·75	1·20	0·25	0·10	0·65	...	0·75	...	...	1·15	0·14	0·21	0·20	0·17	...

;al in August 1890.

23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st August 1890.	Average rainfall from 1st January up to 31st August.	Station.	District.	Meteorological division.
0·60	..			0·21	0·06	1·15	1·50	...	18	18·6	13·55	10·93	3·30	40·89	33·85	Pooree ...	Pooree ...	Orissa.
...	..	...	0·51	0·23	0·06	0·26	...	...	17	21·8	3·80	12·56	0·71	47·95	40·02	Khurdah.		
...	0·20	0·46	2·07	.	.	1·06	...	.	20	16·3	11·47	12·05	2·07	37·69	31·70	Banpur		
1·48	0·09	...	..	0·17	0·41	0·02	..	0·41	20	19·8	11·01	13·60	2 18	36·75	45·11	Pelar Point.		
...		...	0·20	...	4·52	...	..	...	52	?	8·36	?			?	*Gon.*		
...	...	0·18	...	...	...	..	0·46	...	11	?	5·91	?	2·15		?	*Satpara.*		
										?		?			?	*Pipli.*		
...	...	...	0·82	0·42	0·10	0·02	.	0·20	16	14·1	10·05	11·37	1·71	38·06	35·14	Jagatsingpore	Cuttack.	
0·20	...	...	1·50	3·09	.	...	0·54	...	14	22 7	11·13	10·15	3 09	44·62	37·32	Banki.		
0·65	...	...	...	1·20	0·60	1·80	0 90		19	22·7	14·03	11·04	1·80	53·65	41·98	Cuttack.		
0·17	...	...	1·31	..	0·03	1·71	0·27	0·02	21	16·7	9·12	13·24	1·88	29·41	40·59	Kendrapara.		
...	..	...	...	...		0·67	..	..	10	14·2	5·49	11·74	1·38	33·04	43·48	Jajpore.		
...	...	...	...	...	1·15	...	...	.	11	?	0·42	?	1·15	38·04		*Dharmsala.*		
...	...	0·15	0·10	...	0·11	0·19	...	...	13	?	5·00	?	1·90	33·60	?	*Salipore.*		
0·20	...	...	...	...	...	0·61	.	0·17	15	16·3	6·32	11·90	2·15	31·24	39·56	Chandbali	Balasore.	
0·18	..	..	...	...	...	0·40	0·08	1·20	11	16·3	5·89	11·22	1·45	36·11	42·4	Bhuddruck.		
...	...	...	0·25	.	0·22	0·6	...	...	10	17·3	9·39	11·45	3·04	37·93	39·53	Soroh.		
0·01	...	..	...	0 03	...	0·01	0·9	...	17	19 9	7 86	12 78	1·49	38 85	46·21	Balasore.		
0·10	..	..	...	..	..	0·12	0·10	...	15	15·7	8·16	11 35	2·10	37·32	41·94	Jellasore.		
1·38	0·10	0·14	0·10	0·60	0·98	0·25	..	...	19	20·4	9·74	12·23	2·4	38·90	44·56	Barripodah.		
1·04	...	...	0·09	.	0·28	..	0·11	...	18	16 9	6·74	14·22	1·30	33·14	47·74	Contai	Midnapore ...	South-West Bengal.
0·14	...	...	0·36	0·09	0·07	0·63	0·18	...	19	20 3	9 88	16·01	1·61	34 36	51·49	Sangor Island		
...	...	...	0·81	0·10	0·10	1·60	0·20	0·40	12	14·2	6·50	14·53	1·60	40·00	45·48	Tumlook.		
...	...			...			0·34	2·04	15	19·9	5·72	12·52	2 04	36·64	45·87	Midnapore.		
...	...	0·09	0·52	.	0·04	1·55	0 18	0·42	17	19·8	4 2.	16·05	1·55	35·09	49·44	Ghatal.		
1·57		0·05	...	0·38	...	0·13	0·12	0·40	19	?	8·12	?	1 57	27 90	?	*Kukrahaty.*		
...	0·16	...	.	...	...	...	...	0 20	8	?	3·11	13·25	1 57	38·82	43 87	*Garbeta.*		
0·07	..	0·30	...	0·52	0·09	0·08	0·22	1·00	18	23·1	12·53	13·00	2·22	40·40	49·95	Diamond Harbour.	24-Pergunnahs.	
0·48	...	.	...	0·34	...	0·5	2·90	..	16	?	16·02	?	7 32	46·57	?	*Canning Town.*		
1·07	.	...	...	0·90	...	0·15	1·05	1·21	18	24·1	10·14	14·22	1·79	42 72	48·35	Alipore Jail.		
.	...	0·05	...	...	. .	0·30	2 88	...	15	16·2	8·31	12·57	2 88	36 27	44 37	Barrackpore.		
0·52	...	0·37	...	...	. .	0·36	0·58	...	18	21·3	8 62	16·50	2·15	34 32	41·34	Dum-Dum.		
0·10	..	...	...	..		0·28	2·10	..	17	20·8	9·47	12·5	2·19	34·22	44·77	Baraset.		
0·30	...	...	..	...	0·68	0·87	0·19	...	15	19 1	10·76	13·25	2 68	[illegible]	48·92	Bunsorhat.		
0·42	0·03	0·37	...	0·80	.	0·07	0·7	0·45	20	24·4	9·27	15·34	1·78	36·21	47·45	Howrah	Howrah.	
0·13	...	0·28	...	..	0·25	0·28	0·90	0·05	15	22 5	7 36	14·90	1·93	35·20	47·65	Mohesreka (*Ootooberiah*)		
...	...	0·02	...	0·10	...	0·28	3·54	...	18	23 6	9·41	12·96	3·54	38·10	45·02	Serampore ...	Hooghly.	
..	..	0·63	..	.		0·16	0 09	...	14	20·8	7 5.	15 00	1·86	35 25	47 56	Hooghly.		
...	...	0·60	0·26	0·02	0·35	0·04	.	..	15	20·2	8·98	16·35	2·84	47·01	45·31	Jehanabad.		
...	...	...	...	0·07		0·11	1·97	0·37	15	4·6	6·63	12 06	1·97	42 64	41·78	Culna ..	Burdwan.	
0·09	...	0·01	...	...	0·45	0·02	0·57	...	19	22·5	7·16	12·58	2·99	52·85	43·79	Burdwan		
	..	...	...	...	0·32	0·34	0 36	.	15	18 2	6·00	12·69	1·18	45 74	43·14	Cutwa.		
1·24	0·08	...	0·04	...	...	...	0·22	0·11	22	20·4	9·74	13 94	2 61	45 32	42·95	Ranceegunge.		
0·91	0·41	.	...	0·10	...	...	0·06	...	18	?	7·41	?	2·35	41 42	?	*Mankur.*		
0·43	0·11	...	...	0·21	...	0·88	...	...	15	22·2	4·21	12·36	0·87	43·37	42 71	Bankoora	Bankoora.	
0·78	0·06	...	...	...	. .	.	...	...	11	10 0	3·52	14 0.	0·78	38·35	45·60	Bishenpore.		
0·82	.	..	...	...	...	...	...	...	15	18·4	7·37	15·2.	1·86	4. 01	43 09	Maliara.		
0·72			...	...	...	0·20	...	0·25	12	20 5	4·27	15·27	0·91	27 98	40·28	Khatra.		
...	0·05	0·71	...	0·16	...	0·96	...	0·73	11	?	6·48	?	1 17	49·32	?	Indas.		
...	.	1·43	...	0·52	...	0·61	...	0·55	8	?	6·88	?	1·52	57·22	?	Kotaipore.		
...	0 10	...	...	...	...	...	...	.	7	?	2·57	?	0·75	35·65	?	Anda.		
..	0·52	..	...	...	...	...	...	0·22	11	?	7·27	?	1 19	51·04	?	Gangajalghati.		
0·48	0 64	..	0·45	...	0·08	0·42	...	0·12	13	?	6·29	15·70	1·72	39·48	43 98	*Kaipore.*		
1·36	0·54	0·15	0·51	...	...	...	...	...	11	?	6·44	?	1·36	40·88	?	*Sonamukhi.*		
2·79	0·77	0·94	..	...	.	0·01	...	0·02	18	23·2	8·64	13 17	2·78	48 87	45·20	Bh. Soory	Beerbhoom.	
0·11	...	...	...	...	0 20		...	...	14	17·5	6·35	13·43	1·10	42·08	44·73	Hetampore.		
2·10	0·65	...	0·15	...		0·06	...	0 67	19	19·9	16 28	13·53	2 25	53 41	41·10	Rampore Haut.		
1·38	...				0·29		...	...	16	?	8 66	.	1 95	44·51	?	*Bolpur*		
1·64	...	1·20	0·45	...	...	0·10	...	...	14	?	10·62	?	1·64	45 98	?	*Murarai.*		
			0·08															
0·20	...	...	...	...	...	1·06	1·20	0 87	18	17·0	7·62	18·00	1·26	39·09	44·06	Ranaghat ...	Nuddea.	
0·25	...	0·18	...	0·61	...	0·56	0·37	..	20	19·6	9·11	11·29	2·18	43 36	42 73	Krishnaghar.		
..	...	0·15	...	0·12	...	0·68	0·05	...	20	1. 4	8·23	12·50	1 98	34·66	40 03	Chooadanga.		
0·14	0·56	0·40	0·05	...	...	0·20	0·25	1·07	16	17 5	8·98	12·60	1·15	33·30	41·47	Meherpore.		
		0·96		...	...	0·64	0·76	0·66	21	19 5	8·89	14·90	1·85	41·27	46·27	Koushtea.		
0·12	0·01	...	...	0·21	0·03	1·02	2·44	...	24	20·0	11·42	12·38	2·44	50·11	50·59	Satkhira	Khoolna.	
...	...	0·17	...	...	0·35	0·10	...	1·08	14	17·2	8·61	12·86	1·64	54·91	56 25	Bagirhat.		
...	...	0·40	...	0·07	...	0·86	0·75	...	17	19 7	7·27	12·24	1·35	45·15	50·44	Khoolna.		
...	0·25	...	...	1·65	1·40	1·15	...	...	16	r	15·05	?	3·75	55 02	?	Nakipur.		
1·02	0·21	0·06	...	...	...	...	...	...	14	?	9·51	?	2 29	48 90	?	*Kumpul.*		
0·03	...	...	...	...	...	0·72	...	0·16	18	18·8	8·45	10·53	4·11	46·07	44·00	Narail ..	Jessore.	
0·03	0·02	0·40	0·09	0·56	0·02	1·20	0·39	...	24	22·8	12·69	11·76	4·62	54·23	51·93	Jessore.		
...	...	0·40	...	...	...	...	3·41	...	18	15 6	8·54	12·55	3 41	46·01	48·51	Jhenidah.		
0·07	...	0·27	1·09	0·30	0·10	0·70	0·32	...	22	18 5	11·23	9·97	2·73	42·72	47·56	Magoorah.		
...	...	...	...	1·30	...	...	0·45	...	13	15·0	6·59	12·97	1·30	34·27	40·39	Bongong.		
1·80	...	0·22	...	...	...	0·22	..	3·12	16	18·1	13·27	11·75	3·12	49·81	42·03	Kandi ...	Moorshedabad.	
1·70	0·14	...	0·07	...	0·31	...	0·32	1·03	19	19·3	11 29	10·91	2 65	45·07	40·11	Berhampore.		
1·02	0·03	0·05	...	0·16	...	...	0·38	0·75	19	18·8	10·80	12·71	2·21	47·08	40·35	Lalbagh.		
...	...	1·10	...	0·34	...	0·10	...	1·30	15	20·7	9·33	12·68	1·40	42·88	40·52	Azimgunge.		
0·95	...	0·36	...	..	0·12	0·20	...	0·16	21	17·5	10·71	11·79	2·43	38·22	39·11	Jungipore.		
...	...	0·45	...	0·75	...	...	...	0·72	17	17·1	10·21	11·47	1·15	49·66	40·64	Lalgola.		
0·51	0·13	0·89	...	...	...	...	...	...	14	?	7 79	?	2·47		?	Jalgunge.		
										?		?			?	*Azeeganj.*		
																Patsavari.		
1·45	0·50	3·59	...	0·63	1·60	0·20	2·32	0·22	26	23·3	26·45	28·06	3·50	119·49	118·45	Cox's Bazar ..	Chittagong .	East Bengal.
4·90	1·14	0·31	...	. .	0·05	...	5·05	0·04	23	23·7	22·39	21·19	5·05	100·09	83·70	Chittagong.		
4·50	1·25	1·35	...	0·52	1·08	0·90				?		?	4 50		?	*Kutubdia.*		
3·61	0·30	...	..	0·04	0·54	0·04	1·09	0·49	25	?	17·55	?	3·61	73 70	?	*Satkanya.*		
0·27	0·57	0·10	0·24	0·19	0·58	1·09	1·10	0·20	27	15·4	17·14	18·96	4·05	70·13	74 28	Rangamati ...	Chittagong Hill Tracts.	
1·20	0·30	...	...	1·30	1·30	0·20				23·8		17·09	1·75		65 50	Kassia.		

Table of Rainfall recorded at Ste

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	1
EAST BENGAL —*concld.*	Backergunge..	Patuakhally ...	0·77	...	...	...	...	0·45	1·05	0·19	0·21	0·75	0·94	0 65	0·60	...	..	0·25	0·70	...	...
		Perozepore ...	1·40	...	...	0·18		0·35	0·25	0·40	0·20	0·08	0·17	1·77	0·31	0·39	0·28	...	...	...	0·3
		Burrisal ...	0·30	0·20	...	...	0·25	0·49	0·73	0·53	0·17	0·18	0·47	1·08	0 27	0·30	...	..		...	0·2
		Bhola ...	0·22	0·05	0·06	...	1·15	0·08	0·07	0·70	0·12	0·40	0 30	1·16	0·22	..	..	0·50	0·63	...	2·0
		Gournaddi ...			...	...	0 88	0·52	0·07	0·08		0·22	0·48	0·45	0·08	0·18	0·57	...	...	...	0·4
		Bauphal ...	0 86	0·02	...	...	0·13	0·11	0 94	0·62	0·19	0 31	0·73	2·00	0·29	...	0·23	0·31	0·11	...	0·0
	Noakholly ...	Noakholly ...	0·22	0·05	0·16	0·03	0·85	0·29	0·10	0 80	0·79	0·27	0·93	2·35	0·05	...	0·22	2·32	0 34	0·12	0·3
		Fenny ...	0·40	...	...	...	5·65	...	0·23	1·00	0·45	..	0·37	0·30	...		1·00	3·40	1·00	3·20	0·1
		Harishpore ...	0·20	...	...	...	1·10	...	2·10	1·50	0·75	1·80	4 00	2·18	0·30	1·40	2 10	1·20	0·80	0·30	0·8
		Ramganj ...	...	...	...	...	0·60	0·19	...	0·40	...	0·10	1·30	0 70	...	...	...	1·15	0·03	...	1·5
	Furreedpore...	Madaripore ...	...	...	..	...	0·17	..	0·40	0·37	...	...	0·41	..	...	0·33	0·02	...	...	...	...
		Furreedpore...	...	...	...	...	0·20	0·19			0·08	0·32	0·57	0·27	0 03	1·25	...	...	..	0·73	0·2
		Goalundo ...	0·32	...	...	...	...	0 43	0·31	0·29	...	...	0·32	0·65	0·13	...	0·25	...	...	...	...
	Dacca ...	Munshigunge	0·17	...	...	...	...	2·70	0·45	0·15	0·42	...	0·80	0·21	...	0·16	...	0·23	...	0 04	1·0
		Dacca ..	0·37	0·42	...	...	...	2·56	0 51	1·35	0·18	0·10	0·19	0·40	0 04	0 02	..	0 02	...	0·07	0·1
		Narainguuge	0·10	0·72	...	...	...	3·53	0·63	0 34	0·35	..	0·54	0·22	..	0·14	0·32	...	...	...	1·1
		Manickgunge	0·16	0·07	...	...	...	0·74	0· 0	0 05		0 52	0·18	1·04	0·05	0·16	0·82	0·10	0·16	...	0·0
		Joydebpore ...	0·02	0·59	...	...	1·11	1·22	0·68	0·03	0·17	0 41	0·39	0·40	...	..	0·21	0·55	0·02	0·07	0·1
	Hill Tipperah	Agartola ...	...	0·15	...	.	0·50	0·08	1·07	..	0·50	...	0·35	...	0·28	0·50	0·85	0 17	...	0·30	...
	Tipperah ...	Comilla ...	0·06	0·03	0·38	0·04	0·26	1·65	0·15	0·03	0·02	...	0·43	...	.	...	0·36	1·64	1·10	..	0·2
		Chandpore ...	1·10	..	...		0 90	...	2·40	0·30	..	...		...		1·40	0·20	..		...	...
		Brahmunberia	0·43			0·42		0·20	0·18	0·08	0·20	...	0 04	0·10	0·10	..	0·70	1·30	.	0·03	...
		Ramchandra-pore.	0·04	1·42	0·06	0 05	1·02	1·91	...	0·10	0·42	...	0·75	0 10	...	..	0·44	1·02	0 74	...	0·4
		Nasirnagar .	..	...	...	0·20	Nil	0·50	0·40			...		...	...	..	...	...	...	.	...
		Daudkandi ...	0·75	..	...	...		0·42	0 54	0·30	..	...	0·22	0·12	..	..	...	0·75	...	...	...
		Kasba ..		0 27	..	..	0·02	...	...	...	..	...	0·25	.	...	0·24	0 05	..	0·04	...	...
		Laksham ..	0 90	..	...	0 73	...	...	...	...	..	...	..	...	...	0·65	0·25	1·50	..		1·0
	Mymensingh .	Kishoregunge	0·47	...	...	0·23	...	0·21	0·12	0·29	0·05	2·64			..	...	1·31	1·45	...	0·27	0·3
		Atia (*Tangail*	0 55		...	..	...	0·54	0·12				0·48	0·35	..	...	0·42	...	...	0·22	
		Mymensingh	0·56	0·73	...	...	...	0·08	0·70	0·63	0·04	0·22	0·07	0·22	0·34	0·09	0·08	0 28	0·04	...	1·3
		Jamalpore	1·04	0 68	...	...	...	..	0·14	0 16	0·54	0·20		0 09			14		1 88		
		Netrokona ..	0·14	2 40	0·32	...	...	2·50	0·12	1·18	0·12	0·08	...	0·12	0·03	0·10	2·78	1·01	0 06	0·46	0·4
		Subarnakhali	0·46	...	...	...	...	...	...			0·40	...	...	...	...		0·40	..	0·35	...
		Durgapore .	0·30	2·10	...	...	...	0·70		2·60		0·20	...	...	...	...	4·45	1·05	2·36	0·90	0·2
		Sherpore Town	0·58	0 69	...	...	...		0·81		0·30	0·11	...	...	...	...	0·22	0·2	1·12	.	
		Dewanganj ...	0·22	.	...	...	...	0·35	0·25	...	...	...	...	...	...	...	0·48	0·42	.	...	0·2
NORTH BENGAL	Pubna ...	Pubna ..	0·[illegible]	0·12	...	...	...	0·[illegible]	0·34	1	0·52	0·[illegible]	0·82	0·27	0·78	0·08	...	0·09	...	0·25	..	0·8
		Serajgunge ..	0·50		...	...	...	0·25	0 [illegible]	[illegible]	0·28	0·22	0 03	0·25	0·04	0 09	...	0·12	..	0·06	0 03	0·1
	Bogra ...	Sherpore ...	0·67	0·25	...	...	...	0·05	0·07	0·37	0·49		0·15	...	0·31	...	0·78	0·69		0·85	0·4
		Nowkhilla ..	0·95	0·82	...	...	...	...	0·27		0·84	0·13	0·18	0·14	0·04	...	0·34	1 20	0·14	..	0·2
		Bogra ...	1·32	0·18	0·03	1·03	0·19	0·03	0·10	0·50	0·36	0·04	0·45	0·08	0·08	...	0·12	0·03	1·12	0·02	0·0
		Panchbibi ..	2·40	2·12	0·32	...	...	0·09	...	0·10	...	...	0·61	0·30	...	...	..	...	1·0	..	...
	Rajshahye ...	Beauleah ..	0·05	0·15	0·30	...	...	1·26	0·13	0·12	0·16	0·02	0·18	0·42	0·08	0·01	...	..	0·01	0·11	0·8
		Nattore ..	2·52	0 07	...	...	..	0·26	0·20	0·35	0·13	0·08	0·[illegible]	0·22	..	0·03	.	...	0·4	0 13	
		Naogaon ...	0·68	0 09	...	...			0·30	0·09	0·03	...	0 50	0·15	...	...	0·23	...	0·28	0 4	
		Lalpore ...	0 05		...	...	0·33	..	0·30	0 14	1·42	0·12	0 81	0·23	0·30	...	0·15	...	...	...	0·2
		Manda ...	0·50	0·65	..	...	..	0·80	0·10	0·10	..	...	0 40	0·10	...	...	0·50	...	...	...	
	Maldah ...	Maldah ...	1·66	0·47	0·32	...	...	0 35	1·15	0·03	0·11	0 04	0·02	...	0·16	0·04	0·01	0·35	2 00	0·22	0·2
		Chanchal ..	1·23	2·9[illegible]	0·50	...	...	...	0·45	0·09	0·04	...	0·20	0·02	0·10	...	0·38	0·25	1 70	0·13	1·3
		Gajol ...	1 70	0·65	0·17	...	0·40	..	0 20	...	0·15			0·35		...	...	0·38	3 .5		1·0
		Sibganj ...	1·07	0·41	0·19	...	...	0·07	0·41	...	0·07	0·30	0·05	0·60	0·07	0·06	...	...	0·72	0·10	0·1
	Dinagepore ...	Mahadebpore	0·57	...	...	...	...	...	0·32	..	...	0·63	0·29	0·25	0·12	...	.	0·30	...	..	0·1
		Churamon ...	1·60	1·72	0·83	...	...	...	0·54	0·03	...	...	...	...	0·36	...	0·27	.	1·76	0·06	2·0
		Raigunge ...	2 00	4·90	1·07	...	...	...	0 45	0·12	0·55	...	...	...	...	...	0·51	0·44	2·00	0·80	4·2
		Dinagepore ...	0·64	4·20	0·04	0·45	...	...	...	...	0·38	.	..	0·07	0·07	...	0·11	..	3·64	0·36	1·5
		Balooghat .	1·45	1·66	0·42	...	...	...	0·31	0·02	...	...	0·74	0·16	0·07	...	0·06	...	2·52	..	0·3
		Thakurgaon...	0·45	4·05	1·03	...	...	...	0·43	...	..	...	0·86	...	...	...	..	1·10	0·81	1 90	1·1
	Rungpore ...	Bhawanigunge (*Gyabanda*).	2·32	1·61	...	...	...	...	0·34	0·42	.	...	...	0·16	...	...	...	0·10	0·50	...	0·1
		Rungpore ...	0·45	0·73	0·17	1·03	...	...	...	...	...	...	...	...	...	...	0·02	...	2·88	0·19	1·3
		Kurigram ...	1·05	1· 0	0·25	0·05	...	...	...	...	...	...	0·15	...	0·03	...	...	0·45	1 35	0·83	2·2
		Bagdogra (*Nilphamari*).	1·16	0·47	1·07	...	...	0·06	...	...	...	...	0·47	...	...	0·04	...	1·51	3·15	3·50	1·4
		Ulipore ...	2·46	1·58	1·42	...	...	...	...	...	...	...	...	...	...	...	...	...	3·12	...	2·2
	Julpigoree ...	Julpigoree ..	0·06	2·61	0·36	0·25	...	...	0·13	...	0·45	...	0·47	...	...	...	...	1·52	2·35	3·00	1·4
		Alipore Doar	0·60	0·92	0·08	0·27	...	0·07	1·18	0·27	...	...	0·12	...	...	...	0·03	5·90	2·10	1·91	3·2
		Falacotta ...	0·56	0 21	0·18	...	...	...	...	0·21	...	...	0·11	...	...	...	...	0·85	0·96	1·19	2·5
		Debiganj ...	0·28	3·83	...	...	...	...	0·30	0·10	...	...	...	...	...	...	0·32	1·30	2·53	1·94	3·3
		Bhogotpore (*Nagrakalla*).	0·89	0·23	0·02	0·10	...	...	0·57	0·63	0·95	...	1·70	0·19	...	...	1·00	2·89	3 53	0 93	1·4
	Cooch Behar...	Dinhatta ...	2·41	0·81	0·28	1·61	...	...	0·48	0·02	...	...	0·22	...	0·03	...	...	2·88	4·41	1·85	1·4
		Cooch Behar...	2·55	2·18	0·50	...	...	0·48	0 05	0·05	..	...	0·30	...	...	...	1·37	2·70	3·89	1·75	5·0
		Mickligunge...	1·02	3·00	...	...	...	...	1 28	...	0·25	...	0·12	...	0·42	...	...	1·11	2·53	1·68	3·6
		Matabhanga...	1·71	0·16	0·89	...	...	...	4·27	...	...	...	0·56	...	...	...	...	4·12	2·82	2·47	2·1
	Darjeeling Hill	Buxa ...	0 65	2·20	0·61	1·94	...	...	0·42	2·15	0·05	0·01	1·40	0·14	0·08	0·04	4·28	1·53	2·31	3·67	0·3
		Siliguri ...	1·00	2 44	0·28	0·48	...	...	0·10	0·18	0·26	...	...	...	...	...	0·05	0·45	1 00	2·32	2·2
		Darjeeling ...	2·74	3·11	1·88	0·36	0·03	...	1 01	0·71	0·17	0·01	1·88	0·79	0·07	0·04	0·09	0·08	0·31	0 97	2·2
		Kalimpong ...	0·47	1·89	0·74	0·28	...	...	0·91	0· 9	0·08	...	2·16	1·10	...	...	0·03	0·48	0·94	0·21	0·9
		Kurseong ...	0·40	3·40	0·88	2·70	...	...	2·00	0·52	0·10	...	0·33	0·50	0·44	0·05	1·24	2·10	1·12	0·40	2·0
NORTH BEHAR	Purneah ...	Kissengunge	0·48	1·80	2·70	0·29	...	...	2·07		0·05	...	0·20	0·12				1·90	0·43	1·32	0·7
		Arraeah ..	...	0 48	3·17	...	...	...	1·27	0·29	...	...	...	...	...	...	0·21	...	2·25	0·41	0·5
		Purneah ...	1·41	2·24	0·47	0·21	...	...	0·44	...	...	...	0·08	0·15	0·57	0·01	...	2·39	0·33	0·05	0·9
		Goadwara ...	...	5·30	0·66	0·07	...	...	...	..	...	...	...	...	...	...	...	...	...	3·70	...
		Baleramporo	3·15	6·60	1·60	...	...	1·10	...	...	...	...	0·20	0·07	...	...	...	6·40	3·70	1·39	1·2
		Matiari ...	0·35	0·90	0·14	0·15	...	0·08	0·50	...	0·20	...							2·90	5 49	...
		Kaliaganj ..	0·25	2·50	0·28	0·50	...	...	0·24	0·09	...	...	0·50	...	0·10	...	...	0·74	3·00	3·94	2·2
	North Bhagulpore.	Maddepore ...	0·45	1·42	...	...	...	0·75	0·25	...	...	0·36	...	...	...	0·35	0·18	1·75	0·60	...	1·0
		Seerool ...	0·12	0·18	1·12	0·14	...		0 28	...	...	...	0·37	...	0·08	...	...	4·4	0·26	1·48	1·7
		Protabganj ...	0·31	...	0·94	0·71	...	0·19	...	0·29	...	0·23	...	...	...	...	...	0·71	1·91	1·07	...

Bengal in August 1890—*continued.*

23	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st August 1890.	Average rainfall from 1st January up to 31st August.	District.	Station.	Meteorological division.
3·50	1·00	0·50	0·85	0·25	...	0·25	0·75	1·26	...	21	22·8	15·96	17·95	3·50	65·87	76·24	Patuakhally	Backergunge.	East Bengal—*concld.*
0·29	0·22	0·44	0·16	0·23	...	0·14	0·29	0·11	0·21	23	21·0	6·45	15·13	1·77	53·43	60·60	Perozepore.		
1·18	0·39	...	0·42	0·60	...	...	0·13	0·11	...	21	25·1	8·52	13·19	1·18	57·74	61·72	Burrisal.		
1·86	1·29	0·60	0·93	0·20	0·11	0·17	0·44	1·22	0·03	27	25·6	16·56	19·08	2 03	62·21	72·06	Bhola.		
0·30	...	0·70	0·20	...	...	0·22	0·75	0·74	...	19	?	6·40	?	0·75	42·07	?	*Gournaddi.*		
1·64	1·50	0·71	0·15	0·17	...	0·26	1·87				?		?	2·00		?	*Bauphal.*		
1·80	2·11	0·08	0·39	2·85	0·17	0·13	0·53	0·39	0·36	30	24·7	20·34	23·23	2·85	82·01	66·26	Noakholly ...	Noakholly.	
4·85	2·00	0·15	0·05	...	...	1·72	0·20	0·92	0·75	22	24·5	28·54	24·59	5·65	97·92	95·70	Fenny.		
5·90	1·90	2·80	...	...	...	4·00	3·50				?		?	5·90		?	*Harishpore.*		
1·86	0·65	0·10	...	...	0·20	...	0·50	0·10	...	17	?	11·85	?	1·86	65·48	?	*Ramganj.*		
0·11	...	...	1·50	0·45	...	...	3·60	0·21	...	12	19·1	7·62	12·20	3·60	41·04	54·73	Madaripore ...	Furreedpore.	
0·03	0·65	...	0·03	...	0·38	1·45	2·74	...	0·13	19	20·5	14·47	12·31	2·85	47·39	54·64	Furreedpore.		
1·92	...	0·24	...	...	0·15	..	0·06	2·45	...	15	18·1	8·04	11·54	2·45	43·90	49·81	Goalundo.		
0·95	0·10	...	...	0·45	0·33	...	2·05	0·24	0·23	20	20·2	12·00	14 72	2·70	59·57	66·71	Munshigunge.	Dacca.	
0·04	0·26	...	10·17	0·10	...	0·04	1·72	0·16	0·14	24	21·4	11·30	12·39	2·35	63·17	57·13	Dacca.		
0·21	0·18	...	0·06	1·95	0·11	...	2·32	0·13	...	20	23·0	14·43	12·47	3·53	65 65	60·01	Naraingunge.		
1·42	0·04	0·08	...	0·09	...	0·29	1·74	2·41	0·04	24	20·5	12·48	11·71	2·41	53 69	49 65	Manickgunge		
0·10	0·23	0·12	0·26	1·30	0·75	1·43	2·46	0·35	0·18	27	?	14·10	?	2·46	64·96	?	*Joydebpore.*		
0·12	0·20	0·15	...	0·15	0·22	...	0·57	0·47	0·25	21	19·9	7·91	13·77	1·05	63·92	62·70	Agartola ...	Hill Tipperah.	
0·81	0·75	0·16	0·35	0·80	0·23	0·20	1·60	0·32	0·64	26	24·1	12·73	16·77	1·65	61·85	74·47	Comilla ..	Tipperah.	
1·52	0·20	...	0·82	...	...	...	0·42	1·18	...	13	22·5	12·74	19·32	2·40	57·64	69·05	Chandpore.		
0·30	0·18	...	...	0·14	...	...	1·76	0·85	2·80	19	20·6	9·61	12·90	2·80	58·73	62·49	Brahmanberia.		
0·82	...	...	0·47	0·22	0·16	0·18	0·32				?		?	1·91		?	*Ramchandra-pore.*		
...	...	...	...	0·50	...	...	0·60	0·95	1·60	8	?	5·15	?	1·60	59·76	?	*Nasirnagar.*		
...	...	...	...	...	...	0·40	...	0·22	0·49	10	?	4·30	?	0 75	27·75	?	*Daudkandi.*		
0·04	...	...	...	...	...	...	0·27	0 50	0·20	12	?	2·18	?	0·50	59·76	?	*Kasba.*		
1·95	...	...	2·60	...	...	...	1·65	...	...	10	?	12·80	?	2·60	73·75	?	*Laksham.*		
0·21	...	0·17	0·55	...	...	0·47	0·90	4·35	...	19	19·8	14·85	13·12	4·35	67·62	63·20	Kishoregunge.	Mymensingh.	
0·07	...	0·51	...	...	...	...	2·85	1·21	...	12	16·7	8·19	11·96	2·85	53·16	49 32	Atia (*Tangail*).		
1·74	0·71	0 14	0·47	0·21	0·32	0·72	0·97	0·21	0·85	27	22·9	12·90	14·53	1·74	72·83	72·43	Mymensingh.		
...	...	...	0·45	0·47	...	...	0·53	1·31	0·29	15	19·3	10·21	13·71	1·94	68·41	56·76	Jamalpore.		
0·10	...	0·49	0·38	1·02	...	1·39	1·43	1·20	...	24	22·4	18·27	16·97	2·78	86·88	75·25	Netrokona.		
1·02	..	0·20	..	0·30	...	...	0·50	0·37	0·72	10	?	5·32	?	1·02		?	*Subornakhally.*		
0·18	0·50	0·50	0·60	...	2·30	0·58	1·20	1·35	1·00	21	?	26·61	?	4·45	109·97	?	*Durgapore*		
0 41	0·85	0·09	...	...	0·95	...	0·31	0 09	0·31	16	?	7·36	?	1·[illegible]	60·13	?	*Sherepore Town.*		
0·24	1·15	...	...	...	...	1·55	1·50	0·75	...	12	?	9·43	?	2·15	60·88	?	*Dewanganj.*		
0·35	0·19	0·03	0·89	0·66	0·07	...	0·65	0·63	0·42	24	20·4	9·48	12·07	0·89	37·83	48·13	Pubna ...	Pubna ...	North Bengal
0·42	0·25	0·50	0·20	0·07	0·13	0·27	0·60	0·92	0·03	25	14·[illegible]	8·72	11·22	1·53	51·14	40·67	Serajgunge.		
0·61	1·27	0·35	...	0·57	...	0·21	0·72	2·05	2 75	22	16·	14·72	12·29	2·75	53·60	49·45	Sherpore ...	Bogra.	
1·18	0·53	0·24	...	0 20	..	...	1·45	0·12	1·70	20	19	11·06	10·80	1·70	55·74	47·11	Nowkhilla.		
0·96	2·26	0·56	0·72	0·30	0·05	0·14	0·18	2·18	1·83	30	20[illegible]	17·08	12·26	2 26	54·28	57·52	Bogra.		
0·21	0·28	0·57	0·77	...	0·17		0·11	0·28	0·68	17	14[illegible]	12·79	11·43	2·40	57·01	45·85	Panchbibi.		
0·31	0·15	0·39	0·11	0·12	0·09	0·07	...	0·07	0·06	26	20·0	6·91	10·74	1·26	53·79	42·47	Beauleah ...	Rajshahye.	
...	1·35	0·21	...	0·50	0·82	0·02	0·05	0·14	0·20	22	17·3	10 16	12·32	2·02	65·26	45·88	Nattore.		
0·34	0·82	...	0·05	...	...	0·35	0 35	1·12	...	19	16·9	6·90	8·75	1·12	46·45	42·01	*Naogaon.*		
0·44	...	...	0·70	...	0·17	2·00	0·15	0·34	...	17	?	7 87	?	2·00	38·38	?	*Lalpore.*		
0·90	0·10	0·30	....	...	...	...	0·50	...	...	14	?	5·32	?	0·90	30·21	?	*Manda.*		
2·42	0·06	2·92	0·06	0·27	..	..	3·17	0·64	...	25	18·8	18·64	10·27	3·17	45·56	38·28	Maldah ...	Maldah.	
1·35	0·90	0·38	..	0·45	.	...	0·80	0·35	...	22	21·9	14·55	13 73	2·93	4[illegible]·00	4[illegible]·08	Chanchal.		
0·80	1·33	3·17	0·16	0·18	..	..	2·17	0·28	..	18	[illegible]	23 39	?	6 80	57·74	?	*Gajol.*		
0·30	0·65	0·56	0·04	0·07	...	...	0·05	0·06	0·05	24	?	7·81	?	1·07	43·63	?	*Sibganj.*		
0·61	0·10	0·53	0·45	...	...	0·25	0·26	..	1·95	16	18·6	7·50	12·65	1·95	45·24	45·27	Mohadebpore ..	Dinagepore.	
1·12	0 72	0·68	..	...	...	...	1·81	...	0 88	16	19·0	16·93	11·18	2·99	57·26	42·65	Churamon.		
1·62	0·48	1·04	0·72	...	0·38	...	0·65	1·55	0·51	20	19·8	24·25	12·55	4·90	65·56	48·18	Raigunge.		
0·10	0 14	3·80	0·03	...	0·23	...	0·84	1·11	0·30	20	20 6	18·05	14·21	4·20	65·23	50·88	Dinagepore.		
...	2·27	0·36	0·37	1·25	...	...	0·72	0·69	...	18	20·4	13·75	9·03	2·52	51·74	41 87	Baloorghat.		
1·59	2·64	2·50	0·48	...	...	1·84	0·45	1·04	0·68	17	?	24·23	?	4·09	80·63	?	*Thakurgaon.*		
0·12	3·00	1·85	...	...	...	1·00	0·50	0·75	...	16	14·6	15·96	10·29	3 00	72·94	52 04	Bhawaniunge	Rungpore.	
...	1·44	0·05	1·23	0·06	0·16	0·01	0·18	0·80	0·04	19	18·3	11·97	13·00	2·58	62·63	65·32	(*Gyabanda*).		
0·16	1·00	0·14	0·12	...	0·01		0·30	1·30	0·37	20	13·5	11·43	10 56	2·25	68·47	69·36	Rungpore.		
0·05	0·58	2·11	0·29	0·11	0·08	0·05	2·15	2 13	...	21	19·1	21·07	15·17	3 50	79·19	71·58	Kurigram.		
0·36	...	...	2·10	...	...	...	0·36	3·08	0·25	11?	?	18·94	?	3·12	70·61	?	Bardogra. (*Nilphamari.*)		
																	Ulipore.		
3·66	5·20	1·40	1·62	0·32	0·10	1·95	0·36	1·46	0·79	23	21·4	31·07	25·91	5·20	127·24	99·26	Julpigoree ...	Julpigoree.	
0·92	4·50	1·12	2·60	0·65	2·45	4·26	4·66	0·79	3·11	24	?	46·07	?	5·90	155·54	?	*Alipore Doar.*		
0·82	1·63	1·83	0·51	...	1·58	2·45	0 35	0·84	2·15	20	?	20·13	?	2·52	118·69	?	*Falacotta.*		
...	2·08	2·35	0·77	...	1·25	1·48	2 13	1·59	0·20	19	?	26·52	?	3·83	88·84	?	*Debiganj.*		
2·07	0·63	0 49	0·65	4·03	2·70	2·19	2·04	1·73	2·99	26	?	37·06	?	4·05	140 71	?	*Bhogotpore* (*Negrakatta.*)		
0·16	0·79	0·37	0·10	0·07	...	0·12	0·80	2·30	0·28	23	20·5	24·73	15·70	4·41	97·05	84·66	Dinhatta		
2·19	0·64	0·62	3 30	0·67	1 18	3 99	2·75	0·74	4·50	24	20·0	45·36	21·0[illegible]	4·50	140 54	103·08	Cooch Behar ..	Cooch Behar.	
0·28	2·13	5·25	1·77	0·11	1·13	3·54	4·22	2·66	1·13	22	20·7	37·64	22 02	4·22	125·73	90 91	Mickligunge.		
1·13	2·70	1·97	0·68	0·32	2·14	3·37	6·63	1·83	0·94	21	21·5	43·36	22·3[illegible]	6·63	145·27	96·18	Matabhanga.		
2·41	6·36	1·86	0·81	0·87	0·78	7·01	0·98	0·97	2·64	29	24·4	31·48	43·60	7·01	175·42	170·39	Buxa ...	Darjeeling.	
5·70	0·75	0·83	0·14	0·79	0·69	2·10	0·28	1·52	0·43	24	22 4	25·31	2[illegible]·53	5 70	142·29	96·81	Siliguri.		
3·22	0·74	0·70	0·87	0·62	1·12	0·18	0·09	3·03	0·13	30	26·7	29·55	26 67	3·22	131·15	96·66	Darjeeling.		
3·90	0·55	0·40	0·04	0 19	1·27	0·44	0·28	1·19	0·08	26	25·3	19·99	20·36	3·90	101 53	78·53	Kalimpong.		
5 80	0·37	0·85	0·80	0·65	1·50	0·40	0·58	1·93	0·06	26	?	37·64	?	5·80	164·30	?	Kurseong.		
0·65	1·48	3·15	....	1·98	0·85	1·67	3·65	1·80	0·56	22	19·2	27·97	15·71	3·65	81·08	57·60	Kissengunge ...	Purneah ...	North Behar.
1·44	2·60	0·56	...	0·53	0·94	1·40	0·50	1·38	0·48	18	16 6	19·91	15·50	3·17	63·25	51·60	Arrareah.		
0·77	0·33	0·99	1·37	0·09	0·35	0·01	2·03	2·09	0·23	25	21·4	19·12	14·40	2·30	57·59	46·70	Purneah.		
...	...	...	...	...	...	3·06	...				?		?	5·30		?	*Gondwara.*		
0·60	0 56	1·19	0·16	0·50	0·88	0·20	1·35	1·35	...	20	?	32·03	?	6·30	75·62	?	*Balarampore*		
1·36	...	...	0·32	...	0·35	...	2·50	0·30	0·30		?		?	5·40		?	*Matiari.*		
2·34	1·41	0·96	0·31	1·46	0·66	4·00	0·07	2·00	0·50	23	?	28·17	?	4·00	93 16	?	*Kaliaganj.*		
...	...	...	2·35	0·90	...	...	0·80	...	...	13	15·7	11·10	11·96	2·35	52·57	38·96	Maddapore ..	North Bhagul-pore.	
0·66	0·22	1·22	0·98	0·22	...	0·10	1·30	0·50	...	21	16·5	16·25	11 88	4·48	54·24	35·31	Soopooi.		
0·51	...	...	...	...	...	...	2·50	...	0·76	13	?	11·13	?	2·50	40·56	?	*Protabganj.*		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
NORTH BEHAR —*concld.*	Durbhunga ...	Tajpore ...	0·04	0·50	0·84	0·12	3·37	...	0·35	...	0·04	...	...	...	0·10	...	...	0·02	0·35	...	0·05
		Durbhunga ...	...	1 30	0·20	0·13	2·18	...	0·24	...	...	...	0·03	...	0·06	...	...	0·03	...	0·26	0·14
		Madhubani ...	...	0·82	0·35	0·84	0 74	...	1·34	...	0·24	...	0·78	...	...	...	0·10	0·06	...	1·07	0·84
		Bahera ...	...	0·21	...	0·17	0·12	...	0·43	...	...	...	...	...	...	0·10	...	...	0·50	0·12	...
		Koshera ...	1·63	0·10	...	0·73	...	0·70	...	...	...	...	...	...	...	...	0·97	...	0·48	...	0·62
	Mozufferpore	Sitamarhi ...	0·02	0·49	0·41	0·36	...	...	1·04	0·07	0·02	...	0·40	...	...	...	...	0·10	0·72	1·36	0·41
		Mozufferpore	...	2·68	0·67	0·07	0·72	...	1·43	0·07	0·38	...	0·08	0·15	0 13	...	...	..	...	0·42	0·08
		Hajinore ...	0·65	0·70	0·74	...	0·37	...	0·67	...	...	...	0·27	0·13	0·09	...	...	0·50	1·28	0·12	
		Para ...	..	1·84	0·56	...	2·80	...	1·54	...	...	...	...	...	...	...	...	...	0·40	2·21	0·80
		Mahua ...	1·44	...	0·00	0·24	0·44	...	0·15	0·12	...	...	...	...	...	...	...	...	...	...	0·60
		Sitahar ...	...	0 60	...	...	...	...	...	...	...	...	0·80	...	...	...	...	0·80	0·35	...	...
		Pupri ...	0·19	0·50	0·80	0·20	0·30	...	...	...	...	...	0·45	...	...	...	...	0·16	...	0·53	...
	Chumparun ...	Motihari ...	...	0·95	0·11	0·36	...	...	0·24	0·56	...	...	0·19	...	...	...	...	...	0·11	0·47	0·63
		Bettiah ...	...	2·08	1·10	0·34	0·06	...	...	...	...	...	...	...	...	...	...	0·26	1·20	1·70	...
		Bagaha ...	0·03	0·16	0·55	1·12	0·41	...	0·01	0·04	0·31	...	...	...	0·01	...	...	..	1·86	2·86	...
		Barhurwa ...	0·03	1·64	0·01	0 87	0·12	...	...	...	0·02	...	...	...	...	...	...	...	0·25	0·07	1·70
	Sarun ...	Gopalgunge ..	0·08	3·87	1·26	3·25	...	...	...	...	...	...	...	...	...	...	...	...	..	0·36	0·45
		Sewan ...	1·45	0·99	2·13	1·00	0·34	0·02	0·48	0·05	...	...	0·19	...	...	...	...	1·88	1·38	.	0·18
		Chupra ..	0·37	0·27	0 10	0·58	...	1·50	...	...	...	0·17	0·92	...	...	...	...	0·08	2·45	..	0·40
SOUTH BEHAR	Shahabad ...	Buxar ...	0·05	0·70	2·36	0·14	0·69	...	0·02	...	0·14	0·56	0·05	2·02	0·14	0·11	...	..	0·45	0·37	...
		Dehree ...	0·10	0·05	0·33	0·03	...	0·10	...	.	0·58	0·23	...	...	2·90	0·37	...	...	1 75	1·30	..
		Bhuboosh ...	0·64	0·05	0·12	0·28	...	0·25	...	0·05	0·02	0·48	...	2·50	0·60	...	...	..	0·0.	0·18	0·09
		Sasseram ...	0·11	0·05	0·46	0·05	0·06	0·08	...	0·04	0·65	0·12	...	0·02	2·32	0·58	...	...	0·89	0·91	0·06
		Arrah ...	1·15	1·52	0·85	1·12	0·80	...	0·60	0·03	0·13	...	0·02	1·09	0·72	0·16	0·24	...	1·40	0·38	0·14
		Mohaniah ..	0·05	...	...	0·80	...	...	...	0·10	...	...	...	2·15	0·20	...	...	...	0·10	.	1·20
	Gya ...	Aurungabad...	...	0·06	0·13	...	...	1·25	...	0·41	2·55	0·95	0·31	0·80	5·42	0·29	...	.	2·34	1·32	1·05
		Gya ...	0·78	0·16	0·64	...	0·07	0·02	...	...	0·03	0·01	0·31	0·90	0·45	...	...	0·06	3·38	1·88	0·46
		Nowadah ...	0·37	0·23	...	0·04	..	0·21	0·45	0·08	...	0·05	1·90	0·67	0·27	...	0·07	2·95	2·54	0·50	...
		Jehanabad ...	0·75	0·06	1·31	...	0·06	...	0·18	...	0·05	...	0·16	2·30	0·35	0·07	0·02	...	1·95	1·33	0·05
		Arwal ...	0·50	3·20	0·20	2·10	...	0·20	...	..	0·20	0·10	1·50	1·40	..	...	...	0·20	2·50	...	2·50
		Daudnagar ..	1·00	...	...	...	...	0·10	...	...	0·70	...	..	0·10	0·10	0·25	...	3·00	...	.	...
		Sheerghati ..	1·00	...	2·20	...	0·10	...	...	...	...	0·50	0·95	...	1·45	...	...	...	1·00	0·40	...
		Rajauli ...	0·40	...	0·45	...	2·95	1·00	0·26	0·15	...	...	0·25	2·50	0·42	...	...	...	0·30	2 4	...
		Pakri Barawan.	0·40	...	...	...	...	...	2·60	...	0·20	...	...	1·90	0·20	...	...	...	1·20	1 20	...
	Patna ...	Patna ...	...	2·18	0·96	...	0·35	...	0·30	...	...	...	0·15	0·30	0·11	0·22	...	...	1·07	0·12	...
		Dinapore ...	0·07	0·60	0·40	0·90	...	0·60	0 90	...	...	...	0·46	0·86	0·37	...	...	...	0·20	0·05	...
		Behar ...	0·12	1·58	0·18	...	...	0·03	1·35	0·05	0·08	0·13	0·17	0·28	0·11	0·26	0·40	...	0·25	...	0·05
		Barrh ...	0·42	1·24	0·50	...	...	...	0 20	0·50	0·50	...	0 70	...	...	...	...	...	0 40	...	0·60
		Bickram ...	0·49	0·84	1·07	0·02	2·57	...	0·23	...	...	...	...	0·57	0·25	0·27	0·25	...	0 33	1·53	0·12
		Hilsa ...	0·48	0·90	0·19	0·05	...	...	1·30	0·05	...	...	0·75	0·16	0·15	...	0·23	...	1·10	...	0·21
	Monghyr ...	Begoosserai ...	1·40	0·22	0·12	...	0·26	...	0·26	...	0·07	...	0·09	0·37	...	...	...	...	1·19	.	1·01
		Monghyr ...	1·85	0·64	0·11	...	...	...	...	...	0·35	...	0·02	0·21	...	...	...	...	0·76	0·25	1·33
		Jamui ...	0·18	0·11	0·66	...	0·13	..	0·32	...	0·08	...	1·09	0·44	0·09	0·14	...	...	2·00	1·23	.
		Gogri ...	2·25	4·42	1·32	...	...	...	...	...	...	...	...	0·60	...	...	...	0·40	1·29	0·47	2·51
		Sheikpura ...	3·10	1·30	0·40	...	1·50	...	0·30	...	0·27	...	1·50	0·63	0·36	0·52	...	0 30	...	1·60	...
	South Bhagulpore.	Bhagulpore ...	3·49	2·19	1·05	...	...	0·03	0·08	..	0·05	...	0·07	0·20	0·08	0·17	...	...	1·20	0·45	2·10
		Banka ...	1·01	0·44	0·49	...	...	0·07	0·47	0·08	0·31	...	0·09	0·40	0·18	0·20	..	0·10	1·96	0·08	0·32
		Kolgong ...	0·72	1 62	0·40	...	...	...	0·08	0·10	0·05	...	0·15	0·05	0·11	...	...	0·50	0 64	0·20	1·70
		Bongaon ...	...	4·45	...	...	...	...	...	...	1·90	...	...	...	...	...	...	...	..	...	...
	Southal Pergunnahs.	Rajmehal ...	3·48	0·38	0·37	...	...	0·41	0·11	0·15	...	...	...	0·23	...	0·11	...	..	1·95	...	0·3
		Godda ...	1·50	0·28	0·35	...	...	0·30	0·10	...	0·12	...	...	0·35	0·60	0·06	...	0·.0	2·50	...	0·7
		Pakour ...	0·98	0·68	0·32	...	...	2·51	0·76	0·12	0·08	...	0·22	0·37	0·73	0·20	...	0·22	1 32	...	0·3
		Nya Doomka	1·69	4·29	0·09	...	0·11	0·76	0·39	0·98	0·10	...	0·73	1·23	0·58	0·13	...	1·40	3·08	...	1·6
		Deoghur ...	1·00	0·05	0·09	...	...	0·82	0·34	0·14	0·08	...	0·67	0·23	0·11	0·04	...	..	1·32	...	0·1
		Jamtara ...	0·22	0·09	0·08	...	...	0·46	0·27	0·28	0·45	0·12	0·86	2·76	0·38	...	0·27	..	0·59	...	0·9
		Mohagama ...	2·15	0·35	...	0·68	0·49	...	...	0·15	...	...	0·28	0·11	0·15	0·19	...	2·15	0·19	1·38	1·8
		Nanihat ...	0·01	1·56	...	...	...	0·16	...	...	...	0·35	0·26	..	...	...	..	...	1·05	...	...
CHUTIA NAGPUR.	Hazaribagh ...	Pachamba (*Giridi*).	0·20	...	0·15	...	...	0·23	0·15	1·63	0·12	...	0·37	1·28	2·10	0·20	...	...	0·95	...	...
		Hazaribagh ...	0·05	...	0·51	...	1·19	0·17	0·03	0·05	0·02	0·06	1·11	0·32	0·33	0·06	...	...	0·21	0·36	0·7
		Semtagurah ...	...	0·18	...	...	0·31	...	...	...	0·38	0·18	0·49	0·40	0·15	...	...	1·07	0·12	0·30	0·5
		Mahudi Hills	0·06	...	...	...	0·76	...	0·15	...	0·84	0·24	1·52	0 02	0·27	...	...	0·09	0·67	0·14	0·7
		Jhoomrah Hills	...	1·20	...	...	1·20	..	0·10	0·40	0·30	1·40	0·10	1·60	1·00	...	...	0·70	0·10	0·20	0·4
		Barhi ...	2·60	0·45	0·40	...	...	...	...	...	...	0·40	0·65	1·45	...	0·46	...	...	...	1·80	0·1
		Chatra ...	0·04	...	...	...	0·10	0·70	0·03	...	0·45	1·10	...	...	...	3·02	...	...	0·55	1·05	0·7
		Karagdeha ...	0·17	...	0·23	...	...	0·05	0·40	0·92	0·17	...	2·20	1·04	1·75	0·05	0·05	...	0·60	...	0·9
		Kamghar ...	0·60	...	...	...	...	1·40	...	0·59	...	...	...	4·55	...	...	...	...	...	...	3 2
	Lohardugga ...	Lohardugga ...	0·22	0·68	...	...	...	2·28	0·45	0·65	0·71	0·22	...	1·50	0·33	...	...	...	...	3·87	0·3
		Ranchi ...	1·20	...	0 14	...	...	0·25	0·15	0·22	0·68	0·24	0·21	0·18	0·24	0·48	...	...	...	...	...
		Palamow ...	0·05	0·16	0·22	...	0·40	1·25	0·10	0·10	2·23	0·26	0·54	0·85	0·85	...	...	0·27	0·08	0·55	0·7
		Silli ...	...	...	...	...	...	...	...	...	1·49	1·50	0·00	1·30	...	...	...	...	...	...	...
		Balumat ...	1·52	0·15	0·22	0·40	...	1·12	0·03	0·02	0·25	0·43	2·40	1·82	0·42	...	...	0·43	2·30	0·52	0·1
		Hosainabad...	...	...	...	...	...	...	1·09	...	1·09	1·04	.	3·41	0·50	...	...	...	1·05	0·09	...
		Garwah ...	1·15	...	...	...	2·75	...	0·27	0·42	0·20	0·22	0·96	0·10	...	...	...	1·68	...	...	1·1
	Singbhoom ..	Chyebassa ...	0·16	0·12	0·18	...	...	...	0·03	0·46	0·11	0·07	0·04	0·33	0·39	0·04	0·04	0·18	0·25	...	0·1
		Chakradharpore.	0·30	0·20	0·40	0·10	0·20	0·30	0·10	0·05	...	0·35	0·20	0 14	0·15	...	0·20	0·10	0·30	...	0·1
		Ghatsila ...	...	...	...	...	...	1·14	0·25	0·08	0·60	0·65	...	0·25	...	...	...	...	0·15	0·16	1·1
		Baharagora...	0·38	...	...	...	...	1·75	0·30	0·11	1·39	0·46	0·53	...	0·10	0·46	0·31	...	...	...	1·0
	Manbhoom ...	Purulia ...	0·06	0·18	...	...	...	0·43	0·09	0·05	0·08	0·15	3·45	1·52	0·18	0·12	...	0·35	0·08	...	0·1
		Gobindpore ...	0·04	...	0·38	...	...	0·32	0·38	0·42	0·04	...	0·31	0·76	0·76	0·08	...	...	0·39	...	0·1
		Raghunathpore.	...	...	...	...	...	...	1·38	1·30	...	1·30	1·40	4·15	...	...	...	...	...	...	...
		Barrabhoom...	...	...	...	...	...	...	0·05	69	...	...	0·30	0·12	0·12	0·30	..	...	...	...	0·1
		Jhalda ...	0·32	...	...	...	...	0·32	...	1·38	2 42	0·37	1·22	2·22	1·08	...	...	...	...	...	...
		Chas ...	0·50	...	...	...	...	0·68	0·14	0·35	1·67	0·15	2·30	0·10	0·15	0·31	...	...	...	...	...

for the month of August 1890—*concluded.*

23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st August 1890.	Average rainfall from 1st January up to 31st August.	Station.	District.	Meteorological division.
1·48	0·55	1·13	0·14	0·35	...	1·74	...	...	20	14·8	11·07	10·49	2·37	48·55	34·10	Tajpore ...	Durbhunga ...	NORTH BEHAR—*concld.*
3·35	2·92	1·22	...	0·06	0·21	1·37	0·04	0·14	20	15·6	15·84	11·14	3·35	52·38	35·55	Durbhunga.		
0·34	1·68	...	0·10	...	0·25	1·45	0·07	0·10	21	15·9	17·72	10·47	4·04	56·74	35·37	Madhubani.		
1·30	3·73	0·14	0·06	...	0·20	0·30	...	...	16	?	8·65	?	3·72	44·18	?	*Bahera.*		
0·43	1·23	0·22	1·55	...	1 85	0·05	...	..	16	?	14·00	?	1·90	42·21	?	*Roshera.*		
2·79	0·44	0·22	0·82	0·08	0·03	1·74	...	...	22	13·3	13·41	9·52	2·79	43·73	33·53	Sitamarhi ...	Mozufferpore.	
4·54	0·11	1·00	0·08	...	...	1·26	...	...	20	16·0	15·59	10·35	4·54	49·37	32·73	Mozufferpore.		
0 75	0·56	0·32	1·06	0 06	..	0·37	0 18	...	20	16·6	0·45	10·04	1·78	40·52	33·10	Hajipore.		
1·80	0·60	...	0·18	...	0·35	0·50	...	...	15	?	18·48	?	3·50	52·08	?	*Paru.*		
2·32	0·42	0·11	...	...	1·30	...	...	...	13	?	9·64	?	2·32	40·73	?	*Mahua.*		
3·10	1·50	...	...	0·70	...	1·60	...	...	8	?	9·25	?	3·10	41·18	?	*Sirhar.*		
1·50	1·18	0·25	0·05	...	...	2·50	...	0·18	16	?	11·59	?	2·50	45·83	?	*Pupri.*		
1·68	4·46	0·48	...	...	...	2·18	..	...	13	14·2	12·66	12·23	4·46	50·27	35·78	Motihari ...	Chumparun.	
0·98	1·10	0·05	0·41	0·12	2 24	1·75	0·10	...	19	14·5	15·18	12·12	2·24	53·44	38·33	Bettiah.		
0·14	0·32	0·35	1·12	.	0·30	1·55	...	...	20	?	20·35	?	6·27	69·90	?	*Bagaha.*		
1·24	0·39	0·01	0·42	0·06	...	0·82	0·03	...	19	?	10·69	?	1·70	48·75	?	*Burhurwa.*		
1·29	0·25	..	2·31	...	0·81	...	...	...	18	13·9	17·87	10·86	3·87	44·00	34·40	Gopalgunge...	Sarun.	
0·21	1·01	1·14	.	0·31	0·98	...	...	...	20	15·6	15·47	10·89	2·13	47·85	32·76	Sewan.		
0·10	...	1·81	0·03	...	0·11	...	...	...	17	14·5	10·03	9·35	2·45	41·86	29·71	Chuprah.		
2·15	0·11	..	1·73	0·25	...	1·62	...	...	22	16·4	16·59	10·06	2·80	42 98	28·42	Buxar ...	Shahabad ...	SOUTH BEHAR.
1·42	0·22	0 79	2·39	0·28	...	0 85	0·03	...	20	16·1	14·25	12·80	2·90	37·99	31·47	Dehree.		
0·48	0·90	1·60	0·20	0·04	...	0·05	...	...	21	14·4	10·58	12·00	2·50	33·34	32·42	Bhubooah.		
1·80	0·13	1·02	1·32	..	0 17	0·54	...	...	24	15·6	12·62	12·25	2·32	37·69	31·40	Sasseram.		
0·24	0·06	...	1·53	0·07	0·03	0·09	0·06	...	25	16·3	12·98	10·35	1·55	54·98	33·31	Arrah.		
0·50	2 10	0·41	...	..	...	...	...	...	12?	?	9·31	?	2·15	29·70	?	*Mohaniah.*		
5·90	0·28	0·57	0·88	0·36	...	1·75	...	0·08	23	14·2	29·87	12·98	5·90	54·31	33·77	Aurungabad...	Gya.	
2·92	0·01	0·04	1·05	2·02	0·52	3·97	...	...	24	16·7	20·95	10·61	3·97	54·92	31·77	Gya.		
0 87	...	0·71	0·28	0 32	1·07	...	...	...	22	13·8	14·86	11·48	2·95	50 89	32·55	Nowadah.		
1·41	0·07	..	0·15	0·23	...	0 66	...	...	22	14·4	14·70	12·90	2·33	48·82	32·41	Jehanabad.		
1·40	...	...	1·20	...	...	...	...	...	17	?	20·20	?	3·20	49·74	?	*Arwal.*		
0·59	1·30	0·20	0·30	0·20	0·50	..	...	...	15	?	8·95	?	3·00	24·95	?	*Daudnagar.*		
0·20	0·36	0·40	1·90	...	0·40	1·00	...	..	16	?	14·46	?	2·20	31·13	?	*Sheerghati.*		
0·80	...	0·25	0·60	0·65	0·68	0·80	...	...	17	?	14·91	?	2·95	41·34	?	*Rajauli.*		
4·10	0·30	...	...	...	1·10	0·70	...	...	12	?	14·10	?	4·10	37·58	?	*Pakri Barawan.*		
1·08	0·54	2·72	3·54	0·12	...	0·27	..	...	19	16·8	17·38	10·00	3·54	2[illegible]·09	30·83	Patna ...	Patna.	
1·05	0·60	2·41	3·42	...	..	0·95	..	...	19	15·4	16·29	11·50	3·42	41·99	32·56	Dinapore.		
0·60	0·86	0·47	0·14	0·33	0·41	1·56	0·05	..	26	17·2	9·99	11·33	1·58	38·17	34·45	Behar.		
0·80	...	1·08	3·60	...	0·45	0·30	...	...	17	12·1	12·49	9·80	3·60	35·83	31·09	Barrh.		
0·80	0·07	..	4·15	0·84	...	0·10	...	...	21	?	14·96	?	4·15	52·29	?	*Bikram.*		
0·80	0·59	2·27	0·44	0·11	0·29	0·13	0·49	...	21	?	11·55	?	2·27	42·35	?	*Hilsa.*		
1·50	0·10	...	0·42	0·30	0·15	2·10	0·02	..	18	15·0	10·59	10·33	2·10	37·92	31·77	Begoosserai ...	Monghyr.	
0·41	0·29	...	0·61	0·14	.	1·45	...	...	17	17·6	9·93	10·72	1·85	47·35	33 12	Monghyr.		
0 26	0·16	1·20	0 20	0·15	..	1·23	...	...	20	15·1	11·99	12·14	2·06	53·25	35·16	Jamui.		
...	...	...	...	..	3 25	2 32	...	...	11	?	21·16	?	4·42	60·99	?	*Gogri.*		
...	...	1·10	0·13	...	...	0·05	...	...	16	?	14·83	?	3·10	41·66	?	*Sheikpura.*		
0·06	0·22	0·46	0·22	..	...	5·01	0·10	...	22	17·5	18·62	10·80	5·01	51·88	35·54	Bhagulpore ..	South Bhagulpore.	
0·70	1·41	0·04	0·40	0·11	...	0·51	...	...	21	17·5	10·02	11·55	1·96	38·60	34·03	Banka.		
0·11	0·35	0·60	0·50	0·40	...	0·55	...	...	20	?	10·53	?	1 75	50·19	?	*Kolgong.*		
	5·41	...	...	...	...	3·40	...	...	4?	?	15·16	?	5·41	57·89	?	*Bangaon.*		
0·09	0·77	0·09	1·91	0·16	...	0·44	0·03	...	19	15·7	11·60	10·83	3 48	39·56	40·51	Rajmehal ...	Sonthal Pergunnahs.	
0 90	0 90	0·10	...	0·15	...	0·13	...	...	18	16·3	10·30	11·95	2·50	43·77	35·19	Godda.		
0·08	1·69	0·03	0·05	...	...	...	0 10	...	22	17·7	11·85	13·12	2·51	55·38	44·44	Pakour.		
0·08	0·41	0·25	0·01	...	...	...	...	...	21	23·0	19·79	14·47	4·28	56·58	42·98	Nya Doomka.		
1·71	1·14	0·33	0·12	...	...	0·07	...	...	20	19·1	9·84	12·37	1·71	40·72	39·08	Deoghur.		
0·21	0·69	0·01	0·26	0·21	...	2·01	0·33	...	24	18·6	11·27	13·24	2·75	51·65	40·40	Jamtara		
0·56	0·12	1·15	0·88	0·50	...	0·15	...	...	21	?	15·55	?	2·15	43·81	?	*Mohagama.*		
...	0·45	...	0·21	...	1·11	...	...	...	10?	?	5·27	?	1·56	24·60	?	*Nunihat.*		
1·30	0·09	...	...	...	...	0·13	...	...	16	22·8	9·57	12·94	2·10	46·02	38 69	Pachamba .. (*Giridi*).	Hazaribagh ...	CHUTIA NAGPUR.
0·34	0·46	0·12	1·38	0·04	..	0·79	...	...	24	22·3	10·99	13·14	1·81	41·47	38·14	Hazaribagh.		
1·0	0·92	..	0·15	0·18	...	...	...	...	17	17·3	8·33	12·28	1·79	32·34	37·76	Semtagurah.		
										19·0						Mahudi Hills.		
0·20	...	...	...	...	...	...	...	...	17	21·1	0·10	16·38	1·40	45·70	47·66	Jhoonurah Hills		
0·25	0·06	0·02	0·39	0·56	5·10	0·84	0·02	...	20	?	6·08	?	5·10	48·45	?	*Barhi.*		
0·75	1·20	0·55	1·95	0·50	0·85	1·16	...	...	19	?	10·05	?	3·68	45·48	?	*Chatra.*		
0·24	0·10	1·71	0·05	...	...	0·02	..	...	21	?	13·73	?	2·27	49·07	?	*Kasagdeha.*		
..	..	...	...	2·45	...	...	...	...	9?	?	16·60	?	4·55	39·91	?	*Ramghar.*		
7·07	0·85	0 9	0·26	1·00	0·80	0·18	...	...	20	25·8	23·18	15·21	7·07	47·54	40·25	Lohardugga ..	Lohardugga.	
0·37	0·84	0·0	0·24	...	...	...	...	...	17	21·6	7·76	12·27	1·30	35·26	38·43	Ranchi.		
0·5	0·43	0·50	2·71	...	0·10	0·20	...	...	25	17·5	12·87	12·08	2·71	49·68	34·41	Palamow.		
..	1 00	0·40	...	...	...	...	...	...	7?	?	8·50	?	1·60	30·70	?	*Sulli.*		
0·10	0·35	0·22	...	0·04	2·00	0·12	...	...	25	?	17·34	?	2·40	39 93	?	*Daltunat.*		
...	1·48	1·30	...	...	...	1·31	...	...	12	?	14·31	?	3·61	32·30	?	*Hoosenabad.*		
0·25	0·75	1·62	...	...	...	...	...	...	16	?	15·64	?	2·75	33·16	?	*Garwah.*		
0·06	...	...	...	0·07	0·10	...	0·28	...	20	22·1	3·48	13·78	0·67	27·31	43·07	Chyebassa ..	Singbhoom.	
0·06	0·15	...	0·10	0·10	...	0·05	...	..	24	?	4·06	?	0·40		?	*Chakradharpore.*		
0·41	..	...	0 60	...	...	...	...	...	12	?	5·53	?	1·14	41 99	?	*Ghatsila.*		
0·85	...	0·71	...	...	...	...	0·45	...	15	?	9·46	?	1·75	44·92	?	*Baharagura.*		
0·10	0·28	0·85	...	...	...	...	...	0·18	21	21·2	8·78	12·96	9·45	38·05	36·99	Purulia ...	Manbhoom.	
0·23	0·27	...	...	...	...	0 19	...	...	18	20·0	6·42	13·49	1·31	39·71	35·82	Gobindpore.		
2·00	...	...	...	...	...	...	...	...	9	?	16·32	?	4·15	51·18	?	*Raghunathpore.*		
1·62	0·65	0·02	...	0·07	...	0·90	...	0·30	14	?	6·06	?	1·62	37·77	?	*Barrabhoom.*		
0·62	1·15	...	...	...	1·75	0·71	0·23	...	16	?	18·17	?	2·42	48·46	?	*Jhalda.*		
0·79	1·05	...	0·06	...	...	...	...	...	16	?	11·68		2·90	41·20	?	*Chas.*		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF AUGUST 1890.

THE chief peculiarities in the weather of the month of August have been—

(1). Pressure has been either normal or slightly above the normal, and though it has never differed much, there is a moderate excess in the means for the month.

(2). Temperature has been slightly below the normal in the southern and largely below in the northern districts, especially during the latter half of the month.

(3). Rainfall has been scattered in Lower Bengal throughout the month, and was very scanty in the northern districts during the first two weeks, but during the last two heavy and general rain fell, and in consequence the total falls in the northern half of the province are several inches above the normal.

(4). Stormy weather has never occurred, but several very unimportant depressions formed off the Orissa Coast and either filled up shortly afterwards or moved in a north-westerly direction. The only effect of these depressions in Bengal was slightly higher wind velocities for a day or two, and the scattered rainfall in the early part of the month when most of them occurred.

(5). Very light winds have been blowing except in the eastern districts, as is shown by a table given below of velocities at a few coast stations.

During the first half of the month, the trough of low pressure extended from the head of the Bay in the usual north-westerly direction, and the wind circulation was without interruption southerly or easterly in East and North Bengal and Behar, but in Orissa, South-West Bengal, and Chutia Nagpur wind directions were more variable because of the influence of the shallow depressions, three of which formed during the first two weeks. The monsoon current flowing over the province during this period was, therefore, entirely from the Bay, and as it passed without interruption into the North-Western Provinces, very little rain fell in Bengal. Conditions changed during the second half of the month. The trough of low pressure either moved close up to the hills, or the distribution over Bengal was very uniform, in both of which cases the moist current from the west of India was likely to force its way over the western districts and at times the whole of Bengal. In North Bengal and Behar frequent changes of winds from east to west occurred, and then rainfall was heavy and general. From the 17th to the 19th westerly winds were blowing as far east as Dinagepore, but on the 20th a shallow diffused depression over the head of the Bay and South-West Bengal gave the usual cyclonic circulation, which continued till the 22nd, after which westerly winds blew for several days, and again towards the end of the month. The heavy rain in Behar and North Bengal was probably due to the western current as that from the Bay was very weak, or perhaps to the interference of the two currents, an upward motion and greater condensation probably resulting

The depressions during the month have, as stated above, been unusually feeble and at times would have been hardly noticeable but for a faint cyclonic circulation. The first began on the 2nd, close to the coast of the Circars, where it remained deepening slightly, but almost without change of position till the 6th, when it moved in a north-westerly direction into Central India. On the 9th pressure was again lowest at the southern end of the trough off the Orissa Coast, and winds were irregularly cyclonic at a few neighbouring stations, but on the 10th a considerable deepening occurred in the Central Provinces, which caused strong easterly winds over the whole of Bengal with the exception of Orissa This shallow low pressure area moved to the north-west and filled up, after which pressure was again lowest over the western districts of Bengal, from which a similarly shallow depression moved to the west and filled up several days afterwards in the North-West Provinces. Up to this date, therefore lowest pressure was either over Orissa or the western districts, and hence steady southerly and easterly winds were blowing except near the depressions. During the latter half of the month two very shallow depressions formed at the head of the Bay, the first on the 19th and the second on the 26th. They both moved in a northern direction over Bengal where they filled up, leaving the pressure distribution very uniform, and caused the inrush of westerly winds which was followed by the heavy rainfall in the northern districts during these days.

In the following table are given the actual daily wind velocities for August, compared with the normal values for the same period at stations on and near the coast line from Akyab to Gopalpore. At all of these, except Dacca, the velocity is below the normal, the greatest differences being at Calcutta, Saugor Island, and Gopalpore. In August of last year the mean velocity at the various stations was very similar to that of the present year, and then rainfall was deficient in all districts except Orissa, but the trough of low pressure retained its position well to the west of the province, instead of closing up towards the hills about the middle of the month. This tends to show that if the western current had been prevented by the low pressure area from flowing over Bengal, rainfall would have been

again below the normal in the northern districts owing to the very weak monsoon at the head of the Bay.

Stations.	Actual average wind velocity for August 1890.	Normal wind velocity in August.	Variation of actual for August from the normal.
	Miles per day.	Miles per day.	
Akyab	72	120	— 48
Chittagong	134	144	— 10
Dacca	196	168	+ 28
Jessore	80?	120	— 40
Calcutta	68	168	—100
Saugor Island	359	456	— 97
Balasore	123	144	— 21
False Point	228	288	— 60
Pooree	260	288	— 28
Gopalpore	248	360	—112

Pressure—Was considerably above the normal during the first few days of the month, after which a steady fall continued till the end of the first week. The largest excess was on the 4th, when it varied from ·1 inch to ·15 inch in all districts except Chutia Nagpur, Orissa, and Assam. During the second week there was generally a small defect, and while the shallow depression existed, defect within it was only a little over a twentieth of an inch. Mean defect was about ·03 inch in South-West Bengal. Chutia Nagpur, and South Behar, while in the other districts it was rarely over ·1 inch. Changes continued to be very unimportant in the latter half of the month, but the distribution was steadily above the normal by amounts ranging up to a twentieth of an inch. As there was a slight defect during the second week only, the means for the month are everywhere above the normal by between two and three hundredths of an inch.

Temperature—Notwithstanding a partial break in the rains, which gradually extended over the province—has rarely been above the normal, and then these higher temperatures generally occurred in the south-west. For the first week means were practically normal in Orissa, South-West Bengal, and East Bengal, and below elsewhere by amounts between ·4° in Chutia Nagpur and 2·1° in North Behar. In the second week greater irregularity occurred, and excess was confined to the northern districts. After rainfall became more general, low temperatures were again recorded in Behar and North Bengal, and till the end of the month considerable defect prevailed. During the third week temperature was about 1° above the normal, but towards the end of the month lower temperatures were general, and means were normal, in South-West Bengal and about 1° below in the other districts except North Bengal, where the difference was slight and Assam where it exceeded 2°. The monthly mean for South-West Bengal is normal, and for the other districts below the normal, defect being under half a degree in Orissa and East Bengal and between 1° and 1·5° in Behar and Assam.

Rainfall—Has been deficient in Orissa, South-West Bengal, East Bengal, and Chutia Nagpur, and above the normal in Behar and North Bengal, defect in South-West Bengal being 4·1 inches, in Chutia Nagpur 3·42 inches, in Orissa 2·25 inches, and in East Bengal 1 83 inches; while excess in North Bengal is 4·36. inches, in North Behar 3·94 inches, and in South Behar 2·78 inches. These differences are from 20 to 30 per cent. of the normal except in East Bengal, where it is only 12 per cent. In these southern districts the total rainfall up to the end of August does not differ from the normal by more than 6 per cent., but in North Behar excess is 39 per cent., in South Behar 33 per cent., and in North Bengal 21 per cent.

The comparison of the actual rainfall in the various large divisions of the province with the normal is most accurately and conveniently shown in the form of a percentage. The figures representing the rainfall for the month, calculated in this way, are included in the table below under the heading of August. This table really gives a condensed summary of the rainfall statistics of the present year up to date for each meteorological division, the first eight divisions giving the actual average rainfalls in each division in each month expressed as a percentage of the normal, while the ninth column gives the total rainfall for the first eight months expressed as a percentage of the normal rainfall for that period—

Meteorological Divisions.	January.	February.	March.	April.	May.	June.	July.	August.	Actual rainfall of first eight months of 1890, expressed as a percentage of the normal fall for the period.
Orissa ...	24	5	216	20	99	124	97	80	96
South-West Bengal	96	Nil	89	75	87	141	102	69	94
East Bengal ...	184	4	70	122	102	89	120	88	99
North Bengal ...	98	Nil	36	155	81	132	129	132	121
North Behar ...	88	2	25	40	95	140	174	134	139
South Behar ...	Nil	5	68	80	96	188	136	125	133
Chutia Nagpur ...	Nil	Nil	120	1	65	132	116	75	97

Falls of more than 15 inches have been received in the south-east corner, including the Sunderbuns, Noakhally, and Chittagong; in parts of the north of Chutia Nagpur, chiefly in the Hazaribagh and Manbhoom districts; in Gya and Patna, in South Behar; in the greater

part of North Behar, the exceptions being parts of North Bhagulpore, Durbhunga, and Mozufferpore; and over the whole of the northern half of North Bengal. Falls under 10 inches are confined to the north of Orissa, the south of Chutia Nagpur, the greater part of South-West Bengal, and irregular portions of East Bengal. The heaviest falls in North Bengal are Buxa 51·48, Alipore Dooars 46·07, Cooch Behar 45·36, Matabhanga 43·35, Kurseong and Mickilgunge 37·64, Bhagatpore 37·06, and Julpigoree 31·07 inches. Falls over 20 inches have been received in North Behar at the following stations:—Kissengunge, Balarampore, Kaliagunge and Bagaha; in South Behar at Gya, Aurungabad, and Arwal; in East Bengal at Cox's Bazar, Chittagong, Noakhally, Fenny, and Durgapore. The following stations received less than 5 inches:—Kurdah in Orissa; Garbetta, Bankoora, Bishenpore, Khatra and Anda in South-West Bengal; Daudkandi and Kusba in East Bengal.

As compared with the normal, heavy falls have been received in the south of Orissa, the west of Chutia Nagpur and South Behar, the whole of North Behar and North Bengal; while defect of more than 4 inches is recorded in the east of Chutia Nagpur, the west of South-West Bengal, the Sunderbuns and part of Tipperah. Defect is over 8 inches at the following stations in South-West Bengal and Chutia Nagpur, Tumlook, Bankoora, Khatra and Raipore, and over 10 inches at Chyebassa, Ghattal, Garbetta and Bishenpore. Excess is over 8 inches at Hajipore and Maldah, over 10 inches at Raigunge, Kissengunge and Gya, over 15 inches at Mickilgunge and Aurungabad, and over 20 inches at Cooch Behar and Matabhanga.

The following table gives full data for the comparison of the actual and normal rainfall of the month of August in all districts of the province. The figures are derived from the average and actual rainfall of the rain-recording stations in each district, due allowance or weight being made for the area which each station represents. This gives a more accurate average than the arithmetical means given in the weekly and monthly meteorological tables. The first column gives the normal or average district rainfall as determined from the rainfall observations of the past fifteen years; the second column gives the actual district rainfall as determined from the weighted actual rainfalls of the month at the reporting stations in each district; the third column expresses the ratio of the actual district rainfall of the past month to the normal rainfall as a percentage; the fourth column states as a percentage how much the district rainfall of the month varied from the normal—

Percentage Table for August 1890.

Division.	District.	Normal district rainfall for August.	Actual district rainfall for August 1890.	Percentage of actual to normal rainfall.	Percentage excess (+), defect (−).
Orissa ...	Pooree	11·46	10·85	95	— 5
	Cuttack	12·20	8·88	73	— 27
	Balasore	11·77	7·42	63	— 37
South-West Bengal	Midnapore	13·25	6·90	52	— 48
	24-Pergunnahs	13·72	10·64	78	— 22
	Howrah	14·28	8·12	57	— 43
	Hooghly	14·21	8·57	60	— 40
	Burdwan	12·36	6·86	56	— 44
	Bankoora	13·78	4·46	32	— 68
	Beerbhoom	13·67	11·91	87	— 13
	Nuddea	12·19	8·66	71	— 29
	Khoolna	12·48	9·10	73	— 27
	Jessore	11·54	10·11	87	— 13
	Moorshedabad	11·79	11·11	94	— 6
East Bengal ...	Chittagong	23·48	23·74	101	+ 1
	Backergunge	16·14	12·33	76	— 24
	Noakholly	28·49	21·98	94	— 6
	Furreedpore	12·08	10·31	85	— 15
	Dacca	12·38	12·32	99	— 1
	Tipperah	16·37	11·77	72	— 28
	Mymensingh	14·07	12·93	92	— 8
North Bengal ...	Pubna	11·95	9·10	76	— 24
	Bogra	11·81	14·69	124	+ 24
	Rajshahye	11·48	8·44	73	— 27
	Maldah	12·03	16·60	138	+ 38
	Dinagepore	11·87	16·10	136	+ 36
	Rungpore	12·35	14·32	116	+ 16
	Cooch Behar	20·04	38·06	190	+ 90
	Julpigoree	25·91	31·07	120	+ 20
	Darjeeling	26·67	29·55	111	+ 11
North Behar ...	Purneah	14·63	22·42	153	+ 53
	North Bhagulpore	11·87	14·19	119	+ 19
	Durbhunga	10·71	15·49	145	+ 45
	Mozufferpore	10·11	13·23	130	+ 30
	Chumparun	12·18	14·19	116	+ 16
	Sarun	10·21	13·80	136	+ 36
South Behar ...	Shahabad	11·40	12·79	112	+ 12
	Gya	11·71	20·88	178	+ 78
	Patna	10·58	13·33	126	+ 26
	Monghyr	11·21	10·89	98	— 2
	South Bhagulpore	11·23	13·71	122	+ 22
	Santhal Pergunnahs	12·79	13·20	104	+ 4
Chutia Nagpur ...	Hazaribagh	13·07	9·94	76	— 24
	Lohardugga	12·51	17·95	144	+ 44
	Singbhoom	13·78	8·48	95	— 32
	Manbhoom	12·87	8·31	65	— 35

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of August 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	91·9	74·8	87·4	78·3	82·8	—0·3	9·15	11·40	—2·25	16·1	18·2	—2·1	35·42	34 83
South-West Bengal	93·3	75·1	88·2	78·3	83·3	0	8·07	12·77	—4·10	17·2	19·5	—2·3	39 23	37·63
East Bengal	90·3	72·0	85·9	76·9	81·4	—0·4	14·10	15·93	—1·83	21·2	22·0	—0·8	57·12	55·08
North Bengal	92·8	73·1	86·9	77·9	82·4	—0·7	18·20	13·84	+4·36	21·2	18·8	+2·4	63 40	50·87
North Behar	93·2	73·4	87·4	78·1	82·8	—1·0	15·54	11·60	+3·94	19·0	15·9	+3·1	51·26	34·51
South Behar	92·4	72·7	87·0	77·7	82·4	—1·2	14·15	11·37	+2·78	21·1	16·2	+4·9	44·26	31·69
Chutia Nagpur	86·5*	68·7*	82·6*	71·6*	77·1*	—0·7*	10·10	13·52	—3·42	19·5	21·0	—1·5	36·88	36·26
Assam	94·6	74·3	86·4	76·9	81·7	- 1·4								

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 9th September 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Ben

Meteorological Division.	District.	Representative station.	Station Observations.													
			Air pressure.			Wind.		Temperature.								
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature week.	Variation from normal mean of week.
Orissa.	Puoree	Poorne	29·734	29·746	—	Calm	202	93·7	2nd Sep.	77·6	30th Aug.	91·0	80·6	85·8	—
		Gopalpore	29·727	29·748	+·047	N & Calm	171	92·2	4th ,,	76·8	31st ,,	90·2	78·9	84·6	+1·2
		False Point	29·718	29·740	+·009	WSW	176·3	91·5	1 & 2 ,,	75·6	30th ,,	89·6	77·3	83·4	+0·4
	Cuttack	Cuttack	29·671	29·752	+·035	Calm	56·9	94·9	3rd ,,	76·3	30th ,,	92·5	78·6	85·6	+1·4
	Balasore	Balasore	29·680	29·739	+·020	Calm	67·2	94·4	5th ,,	74·8	30th ,,	90·8	78·1	84·5	+2·3
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·712	29·738	+·014	SW	267	91·2	5th ,,	78·5	30th ,,	88·4	81·6	85·0	+1·7
	Midnapore	Midnapore	29·585	29·733	+·002	S	143·7	95·3	3 & 5 ,,	76·1	30 & 31 ,,	92·2	77·8	85·0	+2·1
	24-Pergunnahs, Howrah, Hooghly	Calcutta	29·708	29·730	+·008	SW	41·1	91·5	3 & 5 ,,	75·7	30th ,,	88·0	77·8	83·4	+0·9
	Burdwan	Burdwan	29·627	29·727	+·005	SW	58·0	95·6	5th ,,	75·4	5th Sep.	91·9	78·8	85·4	+1·3
	Bankoora	Bankoora	29·405	29·705	+ 008	W	65·0	95·1	3 & 5 ,,	76·1	3rd ,,	92·3	77·8	85·1	+2·0
	Beerbhoom, West Burdwan	Raneegunge	29·354	29·717	+·011	Variable	38·1	95·0	4th ,,	75·9	30th Aug.	92·3	78·7	85·5	+2·4
	Moorshedabad	Berhampore	29·644	29·725	— 014	SSW	111·6	91·7	2nd ,,	76·3	31st ,,	89·3	79·5	84·4	+1·0
	Nuddea	Krishnaghur	29·668	29·716	—·006	WSW	101·9	?	?	?	?	?	?	?	?
	Jessore, Khoolna	Jessore	29·688	29·722	—·011	Calm	36·9	93·3	5th ,,	76·4	30th ,,	90·7	79·2	85·0	+1·4
East Bengal.	Chittagong	Chittagong	29·689	29·779	—·008	SSE	101·0	80·6	5th ,,	74·0	30th ,,	85·4	75·6	80 5	—0·2
	Chittagong Hill Tracts	Demagiri	Observations not received.												
	Backergunge	Barrisal	29·720	29·732	—·008	Southerly	86·5	89·8	4 & 5 Sep.	78·3	30th ,, & 2nd Sep.	87·5	79·3	83·4	+1·9
	Noakholly	Noakholly	29·731	29·775	+·015	SE	93·5	87·0	4 & 5 ,,	75·8	4 & 5 ,,	84·4	76·9	80·7	—0·3
	Furreedpore	Furreedpore	29·704	29·744	+·001	SSW	90·0	89·5	5th ,,	76·9	30th Aug.	86·6	80·8	83·8	+1·1
	Dacca	Dacca	29·704	29·727	—·020	S	133·4	90·6	5th ,,	77·7	30th ,,	87·8	79·8	83·9	+0·7
	Commillah	Commillah	29·724	29·760	0	S	107·5	89·9	5th ,,	75·8	30th ,,	86·0	77·0	81·6	—0·4
	Mymensingh	Mymensingh	29·677	29·735	—·020	South-westerly.	84·9	87·7	4 & 5 ,,	75·1	31st Aug. & 3rd Sep.	85·3	76·6	81·0	—1·6
North Bengal.	Bogra	Bogra	29·688	29·701	+·001	Variable	42·5	91·3	4th ,,	74·1	30th Aug.	87·8	76·2	82·0	—0·7
	Pubna	Serajgunge	29·672	29 719	—·021	South-easterly.	77·9	87·1	2 & 4 ,,	75·7	2nd Sep.	84·9	77·9	81·5	—1·2
	Rajshahye	Rampore Beauleah.	29·643	29·713	+·001	SW	156·8	90·3	4th ,,	76·6	2 & 4 ,,	88·0	78 7	83·4	—0·6
	Maldah	Maldah	29·616	29·697	+·041	SW	57·0	93·4	5th ,,	78·9	5th ,,	91·4	80·6	86·0	+2·0
	Dinagepore	Dinagepore	29·571	29·691	—·040	South-westerly	41·9	91·6	5th ,,	75·1	30th Aug.	88·7	78·2	83·5	+0·4
	Rungpore	Rungpore	29·591	29·719	—·013	Variable	69·4	89·8	4 & 5 ,,	73·7	30th ,, & 5th Sep.	87·6	75·7	81·7	—1·1
	Julpigoree, Cooch Behar	Julpigoree	29·409	29·700	—·027	?	?	86·4	1st ,,	73·1	30th Aug.	84·0	74·4	79·2	—2·1
	Darjeeling Hill Tracts	Darjeeling	22·888	—	—·074	WSW	131·8	65·1	3rd ,,	55·1	30 & 31 ,,	63·5	56·0	59·7	—1·1
North Behar.	Purneah, North Bhagulpore	Purneah	29·560	29·687	—·031	Calm	75·0	91·7	4 & 5 ,,	73·4	30th ,,	88 3	77·7	83 0	—2·1
	Mozufferpore	Mozufferpore	29·489	29·668	—	W	132·4	93·2	4th ,,	77·2	30th ,,	90·4	81·0	85·8	—
	Durbhunga	Durbhunga	29·518	29·684	—·028	WSW	118·1	92·4	4 & 5 ,,	75·5	31st ,,	89·9	78·9	84·4	+1·1
	Chumparun	Motihari	29·456	29·683	—·014	SW	202·9	94·2	4th ,,	76·9	30th ,,	91·6	78·6	85·2	+2·0
	Sarun	Chupra	29·482	29·674	—·022	W	191·5	94·3	4 & 5 ,,	79·5	30 & 31 ,,	90·7	80·8	85·8	+2·1
South Behar.	Shahabad	Dehree	29·340	29·703	—·004	W	25·8	93·3	4 & 5 ,,	76·0	30th ,,	89·9	79·1	84·5	+1·1
		Buxar	29·457	29·698	—·005	W	203·2	92·4	4 & 5 ,,	76·7	30th ,,	89 9	78·8	84·3	+0·1
		Arrah	29·494	29·689	—·003	WSW	66·6	94·4	5th ,,	76·6	30th ,,	91·0	78·3	84·6	—0·1
	Gya	Gya	29·336	29·716	+·011	S-Wly.	118·8	95·5	4th ,,	75·3	30th ,,	90·2	78·8	84·5	+0·1
	Patna	Bankipore	29·506	29·689	- ·023	W	127·9	94·4	4th ,,	78·2	31st ,,	91·0	79·8	85·4	+1·1
	South Bhagulpore, Monghyr	Bhagulpore	29·521	29·683	—·019	SW & Calm	29·0	93·2	4 & 5 ,,	76·0	30th ,,	89·9	77·9	83·9	+0·1
Chutia Nagpur.	Sonthal Pergunnahs	Doomka	29·217	29·713	+·007	Variable	49·5	93·6	5th ,,	77·2	30, 31, 1 & 5 Sep.	90·7	77·7	84·2	+0·8
	Hazaribagh	Hazaribagh	27·736	29·738	+·024	W & WNW	190·8	88·5	4th ,,	70·7	30 & 31 Aug.	86·0	72·0	79·0	+1·1
	Lohardugga, Manbhoom	Ranchee	27·622	29 739	+·032	Calm	134·8	89·0	4th ,,	69·4	30th ,,	85·8	71·7	78·8	+1·1
	Singbhoom	Chyebassa	28·971	29·735	+·041	W	72·4	93·9	5th ,,	73·2	3rd Sep.	89·9	75·4	82·7	+0·8
Assam.	Assam	Sibsagar	29·404	29·742	—·042	Variable		88·6	1st ,,	74·3	30th Aug.	84·6	75·6	80·1	—2·1
		Dhubri	29·694	29·713	—·034	SSW	125·5	84·2	1 & 2 ,,	74·3	30th ,,	82·5	75·7	79·1	—2·1
		Silchar	29·654	29·761	—·023	Calm		91·5	5th ,,	74·3	31st ,,	86·1	75·8	81·0	—1·1

Explanations.—*Summary.*—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for [illegible]. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The [illegible] are the numerical means or average of the rainfall in that district, determined from the returns sent in by the sub-divisional station for the period in question during [illegible] stations in the district reading in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

ıe week ending Friday, the 5th of September 1890.

Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of August. Mean for district.	Since 1st of August. Normal mean.	Since 1st of August. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
4·3	1·85		2·35		13·40			35·51			4·0	Pooree ...	Pooree	Orissa.
1·0	0·60											Gopalpore ...		
5·1	1·34											False Point ...		
5·3	1·53	1·63	2·00	11·21	12·46	−1·25	38·53	36·12	+2·41	2·6	3·7	Cuttack ...	Cuttack	
0·4	0·58	1·00	2·32	8·64	13·24	−4·60	33·40	37·23	−3·83	1·8	4·0	Balasore ...	Balasore	
8·0	0·18	0·54	3·51	9·75	17·03	−7·28	33·99	44·51	−10·52	2·0	4·2	Saugor Island ...	South-West Midnapore / South 24-Pergunnahs	South-West Bengal.
2·3	2·67	1·32	2·48	5·62	15·80	−10·18	34·86	40 02	−5 16	2·3	4·0	Midnapore .	Midnapore	
4·1	1 08	1·91	2 60	9·50	15·05	−5·55	37 80	40·07	−2·27	2·2	4·2	Calcutta ...	24-Pergunnahs... ... / Howrah .. ... / Hooghly	
4·4	4·74	3·97	2·36	9·50	13 84	—4·34	47·06	37·88	+11·18	3·0	4·0	Burdwan ...	Burdwan	
4·3	0·99	0·41	2·50	5·21	16·18	—10·97	38·06	41 45	—3·39	1·0	4·2	Bankoora ...	Bankoora	
2·7	0·33	0·56	3·19	10·55	15·56	—5·01	45·53	40 56	+4·97	2·5	4·1	Raneegunge ...	Beerbhoom ... ... / West Burdwan ...	
5·6	1·65	1·88	2·98	11·53	14·21	—2·68	43·51	37·37	+6·14	3·2	4·2	Berhampore ...	Moorshedabad ...	
4·3	2·73	2·37	2·32	9·88	13·73	—3·85	37·49	37·22	+0·27	2·8	4·1	Krishnaghur ...	Nuddea	
3·4	0·55	1·73	2·52	9·94	13·94	—4·00	40 90	40·84	+0·06	2·1	4 2	Jessore ...	Jessore ... ... / Khoolna	
5·9	7·56		4·52		27 37			93·37			5·0	Chittagong ...	Chittagong	East Bengal.
			3·07		19·35			60·45			5·0	Demagiri ...	Chittagong Hill Tracts	
6·1	1·69	0·97	3·49	12·61	18·13	—5·52	54·43	59 24	—4·81	2·0	5·0	Barrisal ...	Backergunge	
2·6	1·82	2·18	5·44	25·41	28·63	—3·22	78·99	83 99	—5·00	5·0	5·3	Noakholly ...	Noakholly	
4·0	2·00	1·00	2·84	10·11	14·34	—4·23	33·87	43·18	—9·31	1·3	4·3	Furreedpore ...	Furreedpore	
7·7	0·97	1·40	3·34	12·93	15·35	—2·43	49·57	46·66	+2·91	2·3	4·2	Dacca ...	Dacca	
4·4	1·73	1·88	3·55	11·01	18·45	—7·44	48·70	52·95	—4·25	3·0	4·5	Commillah ...	Tipperah	
3·1	3·05	3 53	3·43	14·53	16·27	—1·74	58·76	52·09	+6·67	4·0	4 2	Mymensingh ...	Mymensingh	
5·1	6·96	4·78	3 04	15·95	13·81	+2·14	50·14	44·03	+6·11	4·5	3·7	Bogra ...	Bogra	North Bengal.
7·1	4·04	2·81	3·22	10·62	14·40	—3·78	37·90	39·93	—2·03	3·5	3 8	Serajgunge ...	Pubna	
2·9	2·84	1·78	3·29	9·05	13·71	—4·66	50·80	39·67	+11·13	3·3	4·1	Rampore Beauleah	Rajshahye	
1·4	0·64	0·62	3·50	16·62	14·41	+2·21	41·60	41·06	+0·54	1·5	4·2	Maldah ...	Maldah	
9·1	2 51	1·61	3 27	16·31	14·08	+2·23	53·10	43·81	+9·29	2·0	4·0	Dinagepore ...	Dinagepore	
4·4	3·50	5·14	4·09	20·16	15·17	+4·99	65·68	58·06	+7·62	6·0	4·2	Rungpore ...	Rungpore	
4·3	7·98	11·42	7·19	44·52	27·81	+16·71	123·04	88·27	+34·77	7·0	5·4	Julpigoree ...	Julpigoree ... ... / Cooch Behar	
10·0	4·69	8·65	5·72	37·87	31·40	+6·47	134·92	98·93	+35·99	6·8	5·5	Darjeeling ...	Darjeeling Hill Tracts	
5·7	2·34	1·97	3·63	19·40	16·14	+3·26	60·85	44·42	+16·43	2·4	3·9	Purneah ...	Purneah ... ... / North Bhagulpore ...	North Behar.
1·9	—	0·59	2·78	13·47	12·24	+1·23	45·69	33·47	+11·22	1·3	3·2	Mozufferpore ...	Mozufferpore	
2·9	0·18	0·22	3·27	14·97	13·05	+1·92	49·96	33·97	+15·99	1·7	3·4	Durbhunga ...	Durbhunga	
4·4	—	0·28	3·04	11·16	14·33	—3·17	53·89	35·96	+17·93	1·0	3·2	Motihari ...	Chumparun	
1·9	—	Nil	2·26	14·46	11·79	+2·67	43·94	31·49	+12·45	0·0	3·1	Chupra ...	Sarun	
3·1	0·03	0·03	2·06	13·45	13·96	+0·49	40·81	30·17	+10·64	0·6	3·2	Dehree ... / Buxar ... / Arrah ...	Shahabad	South Behar.
3·7														
1·3	0·03										3·0	Gya ...	Gya	
3·1	—	0·03	2·01	20·08	13·17	+6·91	51·55	32·40	+19·25	0·3	3·1	Bankipore ...	Patna	
4·1	—	0·01	2·13	14·04	12·00	+2·04	39·19	31·66	+7·53	0·3	3·3	Bhagulpore ...	South Bhagulpore ... / Monghyr	
4·7	0·09	0·03	2·54	13·32	13·83	—0·50	43·94	33·13	+10·81	0·6	3·8	Doomka ...	Sonthal Pergunnahs...	Sonthal Pergunnahs.
0	0·13	0·14	2·91	13·49	14·07	—1·58	45·91	38·46	+7·45	1·0	4·1	Hazaribagh ...	Hazaribagh	Chutia Nagpur.
0·4	—	Nil	2·48	9·61	13·99	—6·38	39·86	39·01	+0·85	0·0	4·2	Ranchi ...	Lohardugga ... ... / Manbhoom	
3·1	—	0·09	2·30	14·25	15·68	—1·27	39·07	37·74	+1·33	0·2	4·0			
		0·16	1·96	7·78	14·54	—6·86	32·11	36·44	—4·33	2·0				
4·1	1·03	1·94	2·07	4·54	15·99	—11·36	26·02	41·06	—14·99	4·0	4·4	Chyebassa ...	Singbhoom	
3·7	1·07											Sibsagar ...	Assam	Assam.
3·2	7·37											Dhubri		
3·1	3·60											Silchar		

ten years. The variations are *negatives* when the mean for the week is less than the corresponding normal mean, and *positives* when greater.

denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means

ten years. The means of the district are the numerical average of the rainfall return received in the districts, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of September 1890

Meteorological division.	District.	Station.	Rainfall. Saturday, 30th August.	Sunday, 31st August.	Monday, 1st September.	Tuesday, 2nd September.	Wednesday, 3rd September.	Thursday, 4th September.	Friday, 5th September.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of August.	Average total rainfall from 1st of August.	Total rainfall since 16th May 1890.	Average rainfall from 1st May to date
Orissa ...	Pooree ...	Pooree ...	1·50	.....	.....	0·03	.....	.....	0·23	3	1·76	13·51	10·81	39·75	30·
		Khurdah ...	.....	.....	.....	.....	...	2·93	1·83	2	4·76	8·56	13·87	47·75	38·
		Banpur ...	.....	...	..	0·46	0·31						13·49		32·
		False Point ...	.....	0·41	0·03	.....	.....	.....	.....	2	1·34	11·94	15·45	36·92	40·
		Gop ...											?		
		Satpara ...	0·40										?		
		Pipli ...											?		
	Cuttack ...	Jagatsingpore	.....	0·20	.....	.....	1·75	0·05	2·10	4	4·10	13·95	11·33	38·19	31·
		Banki ...	0·54	... ..	.....	... ..	.....	0·49	0·35	3	1·38	11·97	12·15	41·22	34·
		Cuttack ...	0·90	... ..	0·40	.....	.....	... ...	... ...	2	1·36	14·43	13·02	51·04	40·
		Kendrapara ...	0·27	0·02	.....	.....	.....	0·81	.....	3	1·10	9·03	13·84	29·51	36·
		Jajpore ...	... ...	..	.....	.....	.....	0·33	... ..	1	0·33	5·82	11·89	31·69	37·
		Dharmsala ...	....	.....	.....	.....	.....	.....	0·50	1	0·50	0·92	?	36 29	
		Salipore ...											?		
	Balasore ...	Chandbali ...	...	0·17	.....	.....	.....	.....	.....	1	0·17	6·32	12·40	29·37	34·
		Bhuddruck ...	0·08	1·20	0·15	.....	2·40	1·20	.... .	5	5·03	9·64	12·16	35·31	36·
		Sorah ...	... ...	.....	...	.....	0·10	... ...	.....	1	0·10	9·40	12·63	34·77	34·
		Balasore ..	0·20	.....	... .	.....	...	.....	.....	1	0·29	7·86	14·72	33·81	40·
		Jellasore ..	0·10	.....	.....	.....	0·17	... .	.....	2	0·27	8·63	13·01	32·38	37·
		Baripodah ...	.....	.....									14·45		39·
South-West Bengal.	Midnapore ..	Contai ...	0·11	.....	.....	.....	... ..	0·07	.....	2	0·18	6·81	16·33	30·63	42·
		Saugor Island	0·18	... ..	.....	.....	.....	.....	.....	1	0·18	9·88	17·40	33·33	46·
		Tumlook ...	0 20	0·40	.....	.....	... ..	.....	.....	2	0·60	6·50	15·79	38·60	39·
		Midnapore ...	0·34	2·04	0·37	... ..	.....	.....	... ...	3	2·75	6·09	14·04	34·94	37·
		Ghattal ...	0·18	0·42	.....	.....	.....	.....	.....	2	0·60	4·25	17·59	32·08	43·
		Kukrahaty ...	0·12	0·49	.....	.....	.....	0·36	.....	3	0·97	8·48	?	26·69	
		Garbetta ...	.....	0·20	.....	.....	.....	.....	.....	1	0·20	3·11	?	33 63	
	24-Pergunnahs	Diamond Harbour ...	0·22	1 00	.....	.....	.....	0·04	.... .	3	1·26	12·57	17·36	38·02	44·
		Canning Town	2·90	.....	.....	.....	... .	0·45	. ...	2	3 35	17·07	?	45·93	
		Alipore Jail ...	1·05	1·21	.....	.....	. ....	.... .	.....	2	2·26	10·14	16·10	39·81	42·
		Barrackpore...	2·88	.....	.....	.....	0·38	... ..	.....	2	3·26	8·69	13·59	33·75	38·
		Dum-Dum ...	0·58	.... .	0·09	.....	.....	0·53	.....	3	1·20	9·24	15·25	32·56	39·
		Baraset ..	2·19	... ..	...	.....	0·09	.....	.....	2	2·28	9·56	14·21	34·07	37·
		Buseerhat ...	0·19	.....	0·27	.....	1·28	.....	.....	3	1·74	12·31	15·37	44·02	42·
	Howrah ...	Howrah ..	0·17	0·45	.....	.....	.....	.....	... ..	2	0·62	9·27	14·87	34·34	38·
		Mohesreka ... (*Golobersah*)	0·90	0·03	.....	.....	.....	.....	... . .	2	0·93	7·36	15·40	44·28	40·
	Hooghly ..	Serampore ...	3·54	.....	.....	... ..	0·51	... ...	.....	2	4·05	9·02	14·07	35·84	38·
		Hooghly ...	0·69	... ..	.....	... .	1·08	0·07	0·03	4	2·77	9·60	13·73	35·44	37·
		Jehanabad ...	.....	.....	.....	.....	.....	....	... ..	Nil	Nil	6·98	17·89	43·98	42·
	Burdwan ...	Culna ...	1·97	0·37	.....	3·15	.....	.....	0·82	4	6·31	10·60	12·88	43·20	34·
		Burdwan ...	0·57	.....	.....	...	0·77	.....	3·49	3	4·74	11·33	14·98	54·64	37·
		Cutwa ...	0·36	.....	0·49	... ..	.... .	.....	... ..	2	0·85	6·55	13·70	43·32	30·
		Ranegunge ..	0·22	0·11	.....	... .	... ..	... ..	.....	2	0·33	9·74	15·21	43 58	39·
		Mankur ...	0·06	.....	.....	.....	0·61	...	.....	2	0·67	8·02	?	40·14	
	Bankoora ...	Bankoora ...	.....	.....	.....	... .	.....	1·00	.....	1	1·00	5·25	15·67	42·72	30·
		Bishenpore ...	... ...	.....	.....	.....	0·12	.....	.....	1	0·12	3·64	17·15	36·51	44·
		Maliara ...	.....	.....	.....	.....	.....	... ..	... .	Nil	Nil	7·37	15·29	46·68	39·
		Khatra ...	.....	0·25	.....	.....	... .	0·25	.....	2	0·50	4·52	16·39	27·23	44·
		Indas ...	.....	0·73	.....	.....	0·30	.....	.....	2	1·03	6·78	?	47·64	
		Kotalpore ...	.....	0·58	.....	... ..	.....	.....	.....	1	0·58	6·88	?	53·03	
		Anda ...	... ..	.....	.....	... .	.....	0·15	.....	1	0·15	2·72	?	34·38	
		Gangajalghati	.. ...	0·22	.....	.....	.....	.....	.....	1	0·22	7·27	?	49·39	
		Raipore ...	.....	0·12	0·42	.....	0·19	.....	.....	3	0·73	6·90	?	38·62	
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·44	?	39·23	
	Beerbhoom ..	Bh. Soory ...	... ..	0·02	.....	...	0·21	0·03	0·02	4	0·28	8·90	16·35	47·27	41·6
		Hetampore ...	.....	..	... ..	.....	0·60	.....	0·20	2	0·80	7·15	15·17	39·74	42·6
		Rampore Haut	.....	0·67	.....	... .	.....	.....	0·17	2	0·84	10·45	15·52	51·56	38·4
		Bolpore ...	.....	.....	... ..	.... .	.....	0·95	0·08	2	1·03	9·69	?	42·98	
		Murarai ...											?		
	Nuddea ...	Ranaghat ...	1·20	0·87	.....	.....	1·04	.....	1·10	4	4·21	9·76	14·30	39·08	36·9
		Kishnaghur ...	0·37	... ..	.....	0·26	1·39	.....	0·02	4	2·04	11·38	13·04	43·23	34·7
		Chooadanga ...	0·05	.....	... ..	.....	.....	.....	.....	1	0·05	8·23	13·60	30·73	37·5
		Meherpore ...	0·25	1·07	.....	.....	.....	.....	.....	2	1·32	8·98	13·54	36·58	36·3
		Kooshtea ...	0·76	0·66	2·32	.....	.....	.....	.....	3	3·64	11·11	14·17	37·17	40·4
	Khoolna ..	Satkhira ..	2·44	.....	... ..	.....	1·31	0·02	.....	3	3·77	12·75	14·14	44·60	42·8
		Bagirhat ...	...	1·08	.....	... .	.....	.....	.....	1	1·08	8·61	14·95	50·50	47·1
		Khoolna ...	0·75	... ..	... ..	.....	0·17	.....	.....	2	0·92	7·44	14·99	40·20	41·7
		Nakipur ...											?		
		Rampal ...	... .	.....	... ..	.....	0·21	.....	.....	1	0·21	9·72	?	46·17	?
	Jessore ...	Narail ...	.....	0·16	0·05	.....	.....	.....	.....	2	0·21	8·50	12·67	37·66	38·2
		Jessore ...	0·39	... ..	.....	0·16	.....	.....	.....	2	0·55	12·75	15·33	48·80	41·9
		Jhenidah ...	3·41	.....	0·45	.....	.....	.....	.....	2	3·86	8·96	14·93	41·53	40·7
		Magoorah ...	0·32	.....	0·02	... ..	.....	.....	.....	2	0·34	11·24	11·83	35·79	37·9
		Bongong ...	0·45	.....	.....	.....	1·45	.....	1·21	3	3·11	9·25	14·81	31·96	38·2
	Moorshedabad	Kandi ...	... ...	3·12	.....	.....	.....	.....	.....	1	3·12	13·27	13·50	46·81	37·6
		Berhampore ...	0·32	1·03	.....	0·50	.....	.....	.....	3	1·85	11·59	14·54	48·89	37·3
		Lalbagh ...	0·38	0·75	.....	0·08	0·28	.....	.....	4	1·49	11·23	14·94	46·78	36·0
		Asimgunge ...	.....	1·30	0·22	0·06	1·12	.....	.....	4	2·70	10·75	15·69	42·80	38·2
		Jungipore ...	.....	0·18	.....	0·18	0·16	0·98	.....	4	0·68	11·15	14 08	35·21	36·2
		Lalgola ...	.....	0·72	.....	0·54	.....	0·45	.....	3	1·71	11·90	13·98	45·81	38·1
		Jiagunge ...											?		
		Khirigunj ...	.....	.....	.....	.....	2·40	1·22	.....	2	3·62	11·41	?	45·72	?
		Pathabari ...											?		?
East Bengal.	Chittagong ...	Cox's Bazar ...	2·32	0·72	0·40	2·20	0·84	0·11	0·02	6	6·51	22·42	21·61	115·94	111·74
		Chittagong ...	5·05	0·04	0·05	0·22	.....	0·11					23·09		72·11
		Kutubdia ...	3·45	0·75	1·05								?		?
		Satkanya ...	1·09	0·49	0·50	0·50	0·50	0·60					?		?
	Chittagong Hill Tracts	Rangamati ...	1·10	0·20	0·21	0·07	.....	.....	0·24	5	2·12	17·26	23·76	58·19	62·21
		Ruma ...	0·05	0·10	0·20								17·90		57·09
	[illegible]gunge	Patuakhally ...	1·26	.....	.....	.....	0·12	.....	.....	2	1·38	18·03	19·77	61·20	63·11
		Feroscpore ...	0·11	0·21	.....	.....	.....	.....	.....	2	0·32	8·45	17·47	50·57	53·45
		Barisal ...	0·11	.....	.....	0·51	.....	.....	.....	2	0·62	9·35	14·31	52·07	51·20
		Khulna ...	1·25	0·03	.....	.....	.....	.....	... ..	5	1·28	10·05	20·45	55·97	56·19

ement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of September 1890 —contd.

logical ion.	District.	Station.	Rainfall. Saturday, 30th August.	Sunday, 31st August.	Monday, 1st September.	Tuesday, 2nd September.	Wednesday, 3rd September.	Thursday, 4th September.	Friday, 5th September.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of August.	Average total rainfall from 1st of August.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
ENGAL ld.		*Gournadds* ...	0·74	...	0·13	.....	.....	.....	.....	2	0·89	6·55	P	32·82	P
		Bauphal ...	0·83	.....	.....	.....	0·29	0·57	.....	3	1·69	15·83	P	56·56	P
	Noakholly ...	Noakholly ...	0·39	0·36	.....	0·12	0·11	0·62	0·02	6	1·62	21·21	29·28	70·20	84·02
		Feuny ...	0·92	0·75	.....	0·15	.....	0·92	.....	4	2·74	29·61	27·95	87·78	83·88
		Harishpore ...	3·00	6·20									P		P
		Ramganj ...	0·10	.....	1·50								P		P
	Furreedpore	Madaripore ...	0·21	.....	0·20	.....	.....	.....	.....	2	0·41	7·82	14·16	31·32	43·75
		Furreedpore ...	.....	0·13	.....	.....	.....	.....	.....	1	0·13	14·47	16·65	38·03	45·08
		Goalundo ...	2·45	.....	.....	.....	.....	.....	.....	1	2·45	8·04	13·21	32·24	40·66
	Dacca ...	Munshigunge	0·24	0·23	1·20	.....	.....	.....	.....	3	1·67	13·20	18·25	51·38	54·08
		Dacca ...	0·76	0·14	6·16	.....	.....	.....	.....	3	1·06	11·46	15·14	46·70	46·08
		Narainguuge	0·13	.....	.....	.....	.....	0·29	.....	2	0·42	14·72	14·48	55·75	47·32
		Manickgunge	2·41	0·04	.....	.....	.....	.....	.....	2	2·45	12·48	13·54	45·01	38·06
		Joydebpore ..	0·85	0·18	0·05	0·02	.....	.....	.....	4	1·10	14·17	P	51·96	
	Hill Tipperah Tipperah ...	Agartola ...	0·47	0·25	0·29	.....	.....	.....	.....	3	0·91	8·10	15·70	48·20	46·29
		Comilla ...	0·32	0·04	0·19	.....	.....	.....	.....	3	0·91	8·10	15·70	48·20	46·29
		Chandpore ...	1·18	.....	.....	.....	.....	0·03	.....	4	1·18	12·95	20·54	54·41	61·12
		Brahmunberia	0·85	2·80	0·60	.....	.....	.....	.....	1	1·18	12·74	22·67	47·14	58·23
		Ramchandrapore ...								3	4·25	10·21	14·90	44·95	46·17
		Nasirnagar ...	0·05	1·60									P		P
		Daudkandi ...	0·22	0·49	0·75	.....	.....	.....	.....				P		P
		Kasba ...								3	1·46	5·05	P	23·08	P
		Laksham ...	.....	.....	0·73	.....	.....	.....	.....				P		P
										1	0·73	13·53	P	62·43	P
	Mymensingh ...	Kishoregunge	4·35	.....	0·70	.....	0·43	.....	0·07	4	5·55	16·05	16·21	55·99	53·26
		Atia (*Tangail*)	1·21	.....	.....	.....	.....	.....	.....	1	1·21	8·19	13·46	41·99	41·34
		Mymensingh	0·21	0·85	0·02	1·02	0·29	0·09	0·47	7	2·94	14·78	16·46	61·14	55·82
		Jamalpore ...	1·31	0·29	1·28	0·99							16·49		48·19
		Netrokona ...	1·20	.....	0·84	2·05							18·80		61·94
		Subornakhally	0·37	0·72	.....	2·02	.....	.....	0·06	4	3·17	7·40	P	36·25	P
		Durgapore ...	1·35	1·00	.....	0·85	.....	0·80					P		P
		ShereporeTown	0·9	0·31	0·57	1·29							P		P
		Dewanganj ...	0·75										P		P
R AL.	Pubna ...	Pubna ...	0·69	0·42	0·13	.....	.....	.....	.....	3	1·18	9·61	15·31	33·22	40·03
		Serajgunge ...	0·92	0·63	.....	2·66	.....	.....	0·23	4	4·44	11·61	13·47	42·32	39·80
	Bogra ...	Sherepore ...	2·05	2·75	.....	2·15	.....	.....	0·06	4	7·01	16·93	14·47	51·71	45·01
		Nowkhilla ...	3·12	1·70	0·44	2·43	.....	.....	0·32	5	5·01	14·85	12·44	47·93	40·40
		Bogra ...	2·18	1·83	0·27	1·25	0·04	.....	.....	5	5·57	18·04	14·87	50·30	47·93
		Panchbibi ...	0·28	0·68	0·45	.....	.....	.....	0·13	4	1·54	13·37	13·95	50·53	42·71
	Rajshahye ...	Beauleah ...	0·07	0·66	.....	0·08	0·17	0·94	.....	5	2·82	9·00	14·45	52·18	38·90
		Nattore ...	0·14	0·20	.....	0·70	.....	.....	.....	3	1·04	10·86	15·04	57·17	40·72
		Naogaon ...	1·12	.....	0·35	.....	.....	.....	.....	2	1·47	7·25	17·05	43·02	39·39
		Lalpore ...	0·34	.....	.....	.....	1·11	.....	.....	2	1·45	8·98	P	33·55	P
		Manda ...											P		P
	Maldah ...	Maldah ...	0·64	.....	.....	.....	.....	.....	.....	1	0·64	18·64	12·71	43·32	37·72
		Chanchal ...	0·55	.....	.....	.....	.....	.....	0·04	2	0·59	14·59	16·13	39·86	44·36
		Gajol ...	0·28	.....	.....	.....	.....	.....	.....	1	0·28	23·39	P	55·92	P
		Sibganj ...	0·06	0·05	.....	.....	.....	.....	.....	2	0·11	7·81	P	41·66	P
	Dinagepore ...	Mohadebpore	.....	1·95	.....	.....	.....	.....	.....	1	1·95	7·50	16·02	41·41	44·09
		Churamon ...	.....	0·88	.....	.....	.....	.....	.....	1	0·88	16·93	13·12	54·06	39·82
		Baigunge ...	1·55	0·51	.....	.....	.....	.....	0·25	3	2·31	24·50	14·84	63·48	45·28
		Dinagepore ...	1·11	0·30	.....	0·36	.....	.....	0·45	4	2·22	18·86	14·66	58·84	42·58
		Balooarhat ...	0·89	.....	.....	.....	.....	.....	.....	1	0·89	13·75	11·81	47·75	40·47
		Thakoorgaon	1·04	0·63	.....	0·36	.....	0·24	1·27	5	3·54	25·10	P	73·18	P
	Rungpore ...	Buxwanigunge (*Gyabanda*)	0·75	.....	1·30	0·22	0·52	.....	0·52	5	3·31	18·52	12·85	63·24	47·49
		Rungpore ...	0·12	0·02	0·02	0·32	0·14	0·31	1·05	7	2·88	14·01	15·44	55·79	58·40
		Kurigram ...	1·30	0·37	0·09	0·19	0·21	3·50	2·60	7	8·26	18·02	13·63	65·54	59·04
		Bogdogra (*Nilphamari*)	2·13	.....	0·71	0·33	.....	0·68	2·25	5	6·10	25·04	18·72	78·03	67·32
		Ulipore ...	3·08	0·25	0·66	.....	.....	0·94	1·12	5	6·05	21·66	P	59·91	P
	Julpigoree ...	Julpigoree ..	1·46	0·79	0·81	1·34	2·41	0·67	0·24	7	7·72	36·54	29·65	122·17	91·79
		Alipore Dooar	0·79	3·11	2·41	8·91	3·00	1·85	0·56	7	20·63	62·80	P	159·86	P
		Fallacotta ...	0·84	2·15	2·65	4·78	3·15	0·43	.....	6	14·00	31·13	P	119·02	P
		Debiganj ...	1·59	0·20	0·53	0·50	0·12	0·84	0·21	7	3·99	28·72	P	84·90	P
		Bhagatpore (*Nagrakatta*)	1·73	2·99	3·01	2·41	2·88	0·75	.....	6	13·77	46·11	P	139·10	P
	Cooch Behar.	Dinhatta ...	2·30	0·28	0·76	0·66	1·71	7·68	0·51	7	13·90	36·05	22·69	96·92	75·95
		Cooch Behar ...	0·74	4·50	5·20	2·69	1·66	1·80	1·60	7	18·15	59·27	26·66	139·97	94·97
		Mickliguuge ...	2·66	1·13	2·68	0·52	0·55	0·38	0·05	7	7·95	41·89	30·65	117·60	87·01
		Mathabhanga ...	1·83	0·94	3·20	1·62	0·85	1·09	0·13	7	9·36	40·94	29·36	138·05	91·60
	Darjeeling Hill.	Buxa ...	0·97	2·04	1·77	3·01	2·28	3·34	0·05	7	14·66	62·53	48·71	175·47	155·67
		Silliguri ...	1·52	0·43	1·38	0·88	5·37	1·04	0·05	7	10·67	34·53	25·68	143·05	86·55
		Darjeeling ...	3·03	0·13	0·34	0·06	0·74	0·61	0·38	7	4·69	31·08	29·91	124·48	86·90
		Kalimpong ...	1·19	0·08	2·05	.....	0·88	0·06	0·30	6	4·56	33·28	31·39	98·69	66·57
		Kurseong ...	1·93	0·05	0·14	0·07	1·14	0·14	0·44	7	3·91	39·57	P	158·55	P
EAR	Purneah ...	Kissengunge ...	1·80	0·56	.....	0·36	.....	.....	0·54	4	3·26	28·87	19·35	76·75	55·27
		Arrareah ...	1·38	0·48	.....	0·30	.....	.....	1·59	4	3·75	31·80	15·49	62·61	48·61
		Purneah ...	2·09	0·23	.....	.....	.....	.....	0·02	3	2·34	19·14	10·98	61·80	45·39
		Gondwara ...											P		P
		Baleerampore	4·33	.....	.....	.....	.....	.....	.....	1	1·83	32·08	P	73·24	P
		Mansari ...	0·30	0·30	1·40								P		P
		Kaliagunj ...	2·00	0·50	0·43	2·40	0·64	0·80	0·21	7	6·98	32·65	P	90·94	P
	North Bhagulpor	Maddapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11·10	13·87	51·01	36·40
		Soopool ...	0·50	.....	.....	.....	.....	.....	.....	1	0·50	16·25	14·03	52·35	36·40
		Protabganj ...	.....	0·76	0·38	.....	.....	.....	0·70	3	1·84	13·31	P	39·83	P
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11·07	13·43	43·53	33·18
		Durbhunga ...	0·04	0·14	.....	.....	.....	.....	.....	2	0·18	16·86	14·05	51·17	35·12
		Madhubani ...	0·07	0·10	.....	0·30	.....	.....	.....	3	0·47	18·02	13·66	54·55	33·60
		Bahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·65	P	43·41	P
		Rashera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·00	P	60·46	P
	Mozufferpore	Sitamarhi ...	1·23	0·09	0·28	.....	.....	.....	.....	3	1·60	15·01	12·86	43·73	32·65
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	15·59	12·49	48·31	33·18
		Hajipore ...	0·18	.....	.....	.....	.....	.....	.....	1	0·18	9·43	11·76	39·13	31·52
		Patna ...										18·43	P	50·83	P
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·64	P	39·03	P
		Bahar ...										9·25	P	38·93	P
		Pupri ...	.....	0·15	.....	.....	.....	.....	.....	1	0·15	11·39	P	44·00	P

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of September 1890—conc

Meteorological Division.	District.	Station.	Rainfall. Saturday, 30th August.	Sunday, 31st August.	Monday, 1st September.	Tuesday, 2nd August.	Wednesday, 3rd September.	Thursday, 4th September.	Friday, 5th September.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of August.	Average total rainfall from 1st of August.	Total rainfall since 15th May 1890.	Avera rainfa from May dat
North Behar —*concluded.*	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·66	14·33	54·94	3
		Bettiah ...	0·10	.....	0·45	.....	.....	.....	.....	2	0·55	15·63	14·30	52·82	3
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....			20·85	?	67·50	
		Barhurwa ...	0·03	.....	.....	0·04	.....	.....	.....	2	0·07	10·73	?	47·10	
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	17·87	11·75	43·61	3
		Sewan ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	15·47	12·26	47·42	3
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·03	11·35	40·78	2
South Behar	Shahabad .	Buxar ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	16·59	11·61	42·21	
		Dehree ...	0·03	.....	.....	.....	.....	.....	.....	1	0·03	14·25	14·54	37·50	
		Bhaboosh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·58	13 07	32·89	
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·82	12·97	36·59	
		Arrah ...	0·06	.....	0·04	.....	.....	.....	.....	2	0·10	12·97	12·45	54·79	
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·31	?	29·47	
	Gya ...	Aurungabad...	.....	0·08	.....	.....	.....	.....	.....	1	0·08	29·87	14·18	53·95	
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	20·95	12·99	53·68	
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·86	12·12	50·71	
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·70	13·40	48·36	
		Arwal ...											?		
		Daudnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·95	?	24·95	
		Sherrghatti ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·46	?	31·13	
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·91	?	41 32	
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·10	?	47·58	
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	17·38	12·12	44·06	
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	16·29	12·79	40·62	
		Behar ...	0·05	.....	.....	.....	.....	.....	.....	1	0·05	9·99	12·10	37·86	
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·49	11·04	34·20	
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·96	?	51·34	
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11·55	?	41·92	
	Monghyr ...	Begoosarai ...	0·02	.....	.....	.....	.....	.....	.....	1	0·02	10·59	12·03	36·19	
		Monghyr ..	0·02	.....	.....	.....	.....	.....	.....	1	0·02	9·95	14 86	45·68	
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11·99	13·14	53·13	
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	21·16	?	64·51	
		Sheikpure ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·83	?	41·66	
	South Bhagulpore.	Bhagulpore ...	0·10	.....	.....	.....	.....	.....	.....	1	0·10	18·62	11·39	49·68	
		Banka ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·03	12·74	34·98	
		Kelgong ...	0·11	.....	.....	.....	.....	.....	.....	1	0·11	10·64	?	48·40	
		Bangaon ...	.....	.....	.....	.....	.....	.....	.....			15·16	?	55·94	
	Sonthal Pergunnahs.	Rajmehal ...	0·13	.....	.....	.....	.....	.....	.....	1	0·13	11·60	12·36	37·66	
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·30	12·23	41·44	
		Pakour ..	0·10	.....	.....	0·10	.....	.....	.....	2	0·20	11·08	15·03	51·37	
		Nya Doomka	.....	0·12	.....	.....	.....	.....	.....	1	0·12	19·91	16·44	54·96	
		Deoghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·84	13·97	39·90	
		Jamsura ...	0·33	.....	.....	.....	0·08	.....	.....	2	0·41	11·35	14·30	50·16	
		Mohagama ...										15·55	?	42·38	
		Nemsat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·27	?	22·84	
Chutia Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·57	14·31	45·53	
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·99	15·40	40·86	
		Bemtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·33	14·14	30·99	
		Mahudi Hills											16·91		
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·10	19·19	44·90	
		Barhi ...	0·02	.....	.....	.....	.....	.....	.....	1	0·02	16·03	?	42·55	
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	16·05	?	41·47	
		Keragdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·73	?	48·37	
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	16·60	?	38·66	
	Lohardugga ...	Lohardugga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	22·18	16·95	45·50	
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·76	16·47	31·74	
		Palamow ...	.....	.....	.....	0·27	.....	.....	.....	1	0·27	13·14	13·46	40·01	
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·50	?	30·30	
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	17·34	?	39·78	
		Hossienabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·31	?	31·91	
		Gerwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	15·64	?	32·50	
	Singbhoom ...	Chyebassa ...	0·23	.....	.....	0·03	0·84	.....	0·19	4	1·34	4·54	15·90	26·09	
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·06	?	19·41	
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·53	?	36·95	
		Baharagura...	0·45	.....	.....	.....	.....	.....	.....	1	0·45	9 46	?	30·30	
	Manbhoom ...	Purulia ...	.....	0·18	0·06	.....	0·03	.....	.....	3	0·27	5·67	15·31	35·69	
		Gobindpore ...	.....	.....	0·05	.....	.....	.....	.....	1	0·05	6·47	13·76	28·72	
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	16·33	?	50·33	
		Barrabhoom	.....	0·20	.....	.....	.....	.....	.....	1	0·20	6·08	?	36·27	
		Jhalda ...	0·23	.....	.....	.....	0·72	.....	.....	2	0·95	18·59	?	48·10	
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11·62	?	39·46	

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of th are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 9th September* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 5TH OF SEPTEMBER 1890.

WEATHER during the past week has been notable for (1) the westerly current which has been blowing steadily in all districts except East Bengal and at times North Bengal: (2) the break in the rains which, being caused by the dry westerly winds, commenced in the western districts in the beginning of the week and gradually spread over the greater part of the province: (3) the high temperature which has resulted from the clear skies and scanty rainfall over the greater part of Bengal.

At the commencement of the week pressure was low along the foot of the hills, and as the difference from the normal was about a tenth of an inch in North Bengal and Assam, westerly winds forced their way as far east as Dhubri. Rainfall was confined to the east and south of the province, where heavy showers continued to fall. Temperature was everywhere considerably below the normal, but a rise of between 1° and 3° was general in the west of Behar, and as rainfall ceased it rose at nearly all stations, defect almost disappearing by the 1st of September. Pressure oscillations were very small throughout the week, and the distribution, though tending to become more normal in North Bengal and North Behar, was not affected to such an extent as would cause a change in the wind circulation. The interference of the southerly winds from the Bay blowing over East and North Bengal with the westerly current from Behar caused the heavier rainfall in these eastern districts, and in part of North Bengal falls were general and heavy throughout the week, while in East Bengal moderately heavy showers fell at nearly all stations during the first half. In Orissa and South-West Bengal the showers were fairly general on the 30th and 31st of August and again on the 3rd of September, but on other days, as in Behar and Chutia Nagpur, practically no rain has been received.

Pressure—Fell briskly on Saturday, the first day of the week, giving lowest readings along the foot of the hills and the greatest difference from the normal in North Bengal and Assam, but on other days changes have been small: first, slowly upwards till the distribution was very nearly normal, and again downwards towards the end of the week. The means for the week in South-West and East Bengal differ from the normal by a few thousandths of an inch only; they are above in Orissa and Chutia Nagpur by about two-hundredths, and below in North Behar and North Bengal and Assam by amounts ranging up to four-hundredths of an inch.

Temperature—Was at first two or three degrees below the normal in Lower Bengal and more than 5° in North Bengal and Assam, but the steady rise which has been going on throughout the week, brought it up to three or four degrees above the normal in all districts except North Bengal and Assam, where there was still a small defect on September 5th, the last day of the week. Defect in the mean for the week is 2·3° in Assam, 1·6° in South-West Bengal, 1·3° in Orissa, and ·5° in North Bengal, while excess is 1·1° in Chutia Nagpur and ·9° in Behar. The mean for East Bengal is practically normal.

Rainfall—As stated above, was scattered in the south-western districts on Saturday, Sunday, and Wednesday, and almost absent on the other days. Scattered showers also fell in North Behar on Saturday and Sunday, but, with the exception of these showers, very little rain fell in Behar or Chutia Nagpur. Almost general rain fell in East Bengal and the southern districts of North Bengal during the first half of the week and in the northern half of North Bengal throughout the week. The actual falls expressed as percentages of the normal falls for the large subdivisions are as follows:—North Bengal 108, Orissa 67, South Bengal and East Bengal 62, North Behar 26, Chutia Nagpur 7, and South Behar 2.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 5th of September 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of August.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	94·9	74·8	90·8	78·7	84·8	—1·3	1·50	2·22	—0·72	2·0	3·9	—1·9	9·81	13·01	35·98	36·15
South-West Bengal ...	95·6	75·4	90·8	78·9	84·9	—1·6	1·68	2·68	—1·00	2·4	4·1	—1·7	9·37	14·84	39·91	39·69
East Bengal	90·6	74·0	86·1	78·0	82·1	+0·1	2·25	3·59	—1·34	3·5	4·6	—1·1	15·00	18·57	56·26	57·71
North Bengal	93·4	73·1	87·5	77·4	82·5	—0·5	4·67	4·16	+0·51	4·4	4·2	+0·2	21·00	16·80	66·19	58·63
North Behar	94·3	73·4	90·2	79·4	84·8	+0·7	0·80	3·68	—2·88	1·4	3·4	—2·0	15·78	13·79	51·56	36·71
South Behar	95·5	75·3	90·4	78·6	84·5	+0·9	0·05	2·38	—2·33	0·6	3·3	—2·7	14·20	13·09	44·20	33·47
Chutia Nagpur	89·0*	69·4*	85·9*	71·9*	78·9*	+1·1*	0·18	2·51	—2·33	0·3	4·2	—3·4	10·28	15·61	36·97	38·37
Assam	91·5	74·8	84·4	75·7	80·1	—2·3										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 9th September 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 31st August to 6th September 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Aug.	31st	150·0	1·2	29·650	82·8	88·5	13·9	74·6	80·0	0·987	78·8	88	Calm and variable...	32	Nil	Chiefly cloudy o.
Sept.	1st	119·3	8·0	·681	84·7	89·7	11·5	78·2	81·0	1·012	79·6	85	SW by W and calm	42	,,	Partially cloud o, ⛅.
,,	2nd	156·5	6·9	·698	84·7	91·5	12·0	79·5	81·1	10·17	79·7	85	SW and calm ...	42	,,	Partially cloud o, t, ⛅, lr.
,,	3rd	150·9	2·9	·709	83·8	88·4	9·5	78·9	81·3	1·035	80·3	89	Calm and variable...	42	,,	Chiefly cloud o, g, t.
,,	4th	150·5	8·4	·675	85·6	91·7	11·9	79·8	81·6	1·026	80·0	84	S by W, calm and variable.	51	,,	Partially cloud ⛅.
,,	5th	153·4	8·0	·647	85·2	92·7	16·4	76·3	80·5	0·982	78·7	81	Calm and variable...	45	,,	Partially cloud; ⛅.
,,	6th	147·9	5·4	·620	84·2	91·0	13·6	77·4	79·1	·927	76·9	79	ENE, calm and variable.	47	1·04	Partially cloud p, d.

	Inches.
The mean pressure of the seven days	29·669
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·646
	Hours.
The total number of hours of bright sunshine	40 8
The maximum possible number of hours of sunshine	87·5
	°
The mean temperature of the seven days	84·4
The average temperature of the corresponding period for 24 years, S.-G.'s Office	83·5
The extreme variation of temperature	18·1
The maximum temperature	92 7
	Miles.
The highest velocity of the wind in one hour	10
	lbs.
The highest pressure of wind on one square foot	Not measurable.
	%
The mean relative humidity	84
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	86
	Inches.
The total fall of rain from 31st August to 6th September 1890	1·04
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	2·48
The total fall from 1st January to 6th September 1890	41·21
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	50·50

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; t, thunder; p, passing temporary showers; d, drizzling rain; lr, lightning reflection; ⛅, dew.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 8th September 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of August 1890.

	Inches.	Date.
The mean pressure at 10 A.M. during the month	29·682	
	°	
The mean temperature at 10 A.M. during the month	84·7	
The highest temperature during the month	92·0	4th and 18th.
The lowest temperature during the month	75·8	23rd.
The absolute range of temperature during the month	16·2	
The mean daily range of temperature during the month ...	10·7	
The greatest range of temperature in one day during the month ...	15·0	30th.
	%	
The mean 10 A.M. humidity during the month	83	
	Inches.	
The mean 10 A.M. vapour pressure during the month	·984	
The total rainfall of the month	10·40	
The greatest fall in 24 hours	2·30	6th.
	Days.	
The number of rainy days in the month	22	

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 8th September 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 31st August to 6th September 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	HYGROMETRY. Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall past 24 hours.
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
August ...	31st ...	29·720	83·9	90·0	12·2	77·8	85·0	80·8	·996	79·1	82	1·11
September...	1st ...	·752	85·4	92·0	13·2	78·8	88·6	81·5	·981	78·6	73	...
,, ...	2nd ...	·752	86·0	92·0	12·0	80·0	89·6	81·5	·967	78·2	70	...
,, ...	3rd ...	·774	84·5	90·2	11·4	78·8	80·6	78·5	·949	77·6	91	0·09
,, ...	4th ...	·739	86·5	93·0	13·0	80·0	89·4	81·5	·968	78·2	70	...
,, ...	5th ...	·710	85·6	94·0	16·7	77·3	90·6	83·0	1·028	80·1	72	...
,, ...	6th ...	·667	86·0	93·2	14·4	78·8	88·6	81·0	·957	77·9	71	...

	Inches.
The mean 10 A.M. pressure of the seven days	29·731
The mean temperature of the seven days	85·4
The extreme variation of temperature	16·7
The maximum temperature	94·0
	%
The mean 10 A.M. relative humidity of the seven days	76
	Inches.
The total fall of rain from 31st August to 6th September 1890 ...	1·20

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 8th September 1890.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of May 1890.

[THE delay in the publication of this review is due to the non-receipt of the Julpaiguri district return, which was received in this office on the 2nd instant, more than *three* months after the month to which it relates.]

The deaths registered in forty-five districts of Bengal during the month of May 1890 were 124,450, and correspond to an annual rate of 22·56 per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is 1·32 higher than the mean rate of the corresponding months of the past five years 1885—89, and is also higher than the rate of the corresponding period of any of the past five years, except 1887, *vide* the figures below—

	May 1885.	May 1886.	May 1887.	May 1888.	May 1889.	Monthly average of five years, 1885—89.	May 1890.
Ratio of deaths per 1,000 of the population per annum	20·64	18·24	25·44	21·00	20·88	21·24	22·56

The following table shows the highest proportions of deaths registered during the month of May 1890, compared with the corresponding month of 1889 :—

Districts.	Ratio per *mille* during— May 1890.	May 1889.	*Districts.*	Ratio per *mille* during— May 1890.	May 1889.
Darjiling ...	59·76	45·84	Durbhunga ...	31·20	13·68
Monghyr ...	39·84	18·96	Hazaribagh ...	31·20	21·36
Patna ...	34·56	17·52	Chumparun ...	30·36	15·00
Bhagulpore ...	34·20	23·88	Lohardugga ...	30·36	17·40
Julpaiguri ...	33·24	44·16	Shahabad ...	28·44	15·96
Noakhali ...	32·64	30·36	Gya ...	28·08	15·60

Except in the case of Julpaiguri the figures of May 1890 show a distinct advance towards accuracy in death registration in the districts mentioned which is encouraging.

The total mortality during the month under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89 :—

	Ratio per *mille* during— May 1890.	May 1889.	Monthly average of five years 1885—89.
Cholera	2·88	4·08	3·60
Small-pox	·24	·12	·12
Fever	15·84	12·72	13·68
Bowel-complaints	·48	·60	·72
Injury	·36	·36	·36
Other causes	2·52	2·64	2·52

Compared with the figures of both the past periods, there is a noticeable increase in the mortality of May 1890 under the head fever, and a sensible decrease in the death-rate from cholera.

The highest annual death-rates from cholera and fever occurred in the following districts :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*
Monghyr	13·68	Darjiling	46·08
Bhagulpore	12·24	Julpaiguri	28·92
Durbhanga	11·64	Noakhali	28·92
Chumparun	11·64	Hazaribagh	27·12
Maldah	7·68	Shahabad	25·56
Patna	6·72	Gya	23·88
Purneah	5·88	Lohardugga	23·52
Chittagong	2·64	Monghyr	23·40
Mozufferpore	2·64	Patna	22·20
Julpaiguri	2·52		
Rajshahye	2·28		
Sarun	2·28		

From small-pox high mortality occurred only in the district of Chumparun—mortality 3·12 per 1,000 of population.

The mortality of the month under review, according to *Sex*, *Class* and *Age*, was distributed as follows :—

According to Sex.	Ratio per *mille.*
Males	24·60
Females... ...	20·64
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ...	119

According to Class.	Ratio per *mille.*
Christians ...	14·52
Hindus ...	23·76
Mahomedans ...	20·68
Buddhists ...	21·24
Other classes ...	23·76

According to Age.	Ratio per *mille.*
Under 1 year	133·32
1 and under 5 years ...	24·60
5 „ 10 „ ...	11·88
10 „ 15 „ ...	10·68
15 „ 20 „ ...	14·88
20 „ 30 „ ...	15·60
30 „ 40 „ ...	18·00
40 „ 50 „ ...	23·64
50 „ 60 „ ...	33·24
60 years and upwards ...	52·68

Detailed information regarding the mortuary statistics of the forty-five districts of Bengal during the month under review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 4th September 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of May 1890.

1	2	3			4							5							6		7		8		9
		POPULATION.			MORTALITY ACCORDING TO— Disease. DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.							COMPARISON WITH PREVIOUS PERIODS.		DEATHS AMONG—		Sex. RATIO PER 1,000 OF POPULATION PER ANNUM.		
DIVISIONS.	DISTRICTS.	Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
BURDWAN ...	Burdwan	668,295	723,528	1,391,823	18	17	1,573	23	29	447	2,098	·12	·12	13·56	·12	·12	3·84	18·00	24·24	20·04	1,101	997	19·68	16·44	119
	Bankura	507,136	534,616	1,041,752	1	30	1,143	34	25	572	1,603	·01	·36	12·96	·36	·24	4·20	18·36	20·76	22·32	839	774	19·56	17·28	113
	Birbhum	381,563	412,865	794,428	14	3	1,090	6	21	452	1,586	·12	·01	16·44	·08	·24	6·72	23·48	26·88	20·88	819	767	16·08	16·12	105
	Midnapore	1,248,195	1,272,370	2,515,565	52	195	2,314	121	76	520	3,278	·24	·84	10·92	·48	·36	2·40	15·60	22·68	17·04	1,689	1,639	16·36	17·88	119
	Hughli	315,665	347,385	663,050	38	11	820	88	11	137	1,085	·60	·12	14·76	1·20	·12	2·40	19·56	28·44	15·72	585	520	21·36	17·88	119
	Serampore	174,366	177,589	351,955	11	6	442	59	20	94	632	·36	·12	15·00	1·92	·60	3·12	21·48	27·24	16·56	314	293	22·92	20·04	114
	Total (Hughli including Serampore).	490,031	524,974	1,015,005	49	17	1,262	137	31	231	1,717	·48	·12	14·88	1·44	·36	2·64	20·28	27·96	16·08	899	813	21·96	18·60	118
PRESIDENCY ...	Howrah	316,479	318,902	635,381	56	42	440	130	35	217	920	·96	·72	8·28	2·40	·60	4·08	17·28	25·80	16·92	532	389	20·16	14·52	133
	24-Pergunnahs	360,841	312,521	1,673,362	82	32	1,460	66	91	214	1,965	·48	·12	10·56	·36	·60	1·44	14·04	19·32	13·56	1,061	934	14·76	13·32	110
	Nuddea	806,779	849,943	1,655,721	83	20	1,504	19	85	249	1,958	·60	·12	10·80	·12	·60	1·80	14·16	18·72	21·84	1,096	872	16·08	12·24	131
	Jessore	959,271	980,104	1,939,375	135	6	2,798	5	91	155	3,190	·72	·03	17·28	·02	·48	·84	19·03	29·88	19·20	1,761	1,429	19·80	15·00	132
	Murshidabad	686,483	640,307	1,326,790	133	15	1,351	12	63	201	1,775	1·20	·12	16·56	·12	·36	2·40	21·48	23·88	19·48	1,044	898	21·96	21·00	104
	Khulna	568,402	511,546	1,079,948	166	3	1,500	16	42	221	1,942	1·68	·02	16·56	·12	·36	2·40	21·48	23·88	19·48	1,044	898	24·36	20·16	120
RAJSHAHYE ...	Dinajpur	782,292	732,054	1,514,346	182	12	2,146	15	73	120	2,619	2·28	...	19·20	·12	·60	·96	23·40	32·04	23·80	1,436	1,193	21·12	17·04	124
	Rajshahye	660,710	678,893	1,339,603	265	...	3,011	18	52	220	3,558	·24	·004	17·16	·09	·24	1·20	19·20	23·56	19·53	1,893	1,469	17·64	16·08	110
	Rungpore	1,067,701	1,030,263	2,097,964	56	1	824	10	45	138	1,037	·12	·09	13·44	·12	·72	2·16	16·92	26·52	16·80	550	487	17·64	16·08	139
	Bogra	372,193	361,200	733,393	14	6	824	10	47	84	2,023	·36	...	16·68	·10	·36	·72	18·48	27·72	19·84	1,167	836	21·60	15·48	139
	Pubna	648,311	663,417	1,311,728	44	...	1,834	12	6	85	776	·07	...	46·08	6·48	·36	6·48	59·76	43·56	45·84	475	301	63·72	54·48	116
	Darjiling	89,351	66,294	155,645	1	...	599	85	6	85	776	2·52	...	28·92	·24	·12	1·20	33·24	41·52	44·16	930	641	36·36	29·52	123
	Julpaiguri	305,772	276,418	582,390	123	...	1,408	14	6	60	1,611	·60	·48	9·36	·60	·48	2·40	14·52	19·08	16·44	1,414	1,156	16·32	12·72	128
DACCA	Dacca	1,053,363	1,082,487	2,135,850	258	8	1,663	119	91	431	2,570	1·44	·03	11·28	·72	·36	1·68	15·60	25·80	16·32	1,185	941	17·64	15·56	130
	Faridpore	803,989	827,745	1,631,734	251	10	1,546	32	57	230	2,126	1·80	·07	11·28	·12	·36	1·68	15·60	27·72	24·48	1,987	1,704	24·48	21·96	111
	Backerganj	973,479	927,410	1,900,889	317	1	2,208	51	176	938	3,691	1·92	·006	13·92	·24	1·08	5·89	23·28	27·72	20·40	2,477	1,964	19·08	14·88	128
	Mymensing	1,555,840	1,501,103	3,056,943	431	73	3,193	77	72	495	4,341	1·68	·24	13·68	·24	·24	1·92	17·04	20·40	20·04	2,477	1,964	22·80	17·88	127
CHITTAGONG ...	Chittagong	531,649	600,692	1,132,341	258	2	1,326	66	56	200	1,908	2·64	·01	14·04	·60	·48	2·04	20·04	18·24	15·84	1,012	896	33·84	31·32	108
	Noakoolli	415,248	405,524	820,772	60	1	1,980	11	52	130	2,234	·84	·01	28·92	·12	·48	1·92	18·60	24·84	22·44	1,343	1,014	20·76	16·32	133
	Tipperah	768,458	745,911	1,514,361	253	...	1,754	27	73	250	2,357	1·92	...	13·80	·12	·48	1·92	18·60	26·88	17·52	2,610	2,441	36·45	32·64	112
	Patna	856,501	895,059	1,751,559	991	161	3,243	155	63	438	5,051	6·72	1·08	22·20	·96	·36	3·00	34·56	26·88	15·60	2,563	2,423	29·40	26·88	109
	Gya	1,043,441	1,081,241	2,124,682	305	78	4,242	23	68	270	4,986	1·68	·36	25·56	·12	·36	1·56	29·44	27·48	15·96	2,457	2,333	31·08	26·04	118
PATNA	Shahabad	959,259	1,014,659	1,964,909	67	45	4,192	34	61	273	4,670	·36	·24	25·68	·60	·36	1·68	30·52	18·96	10·92	2,413	2,041	22·80	18·24	125
	Mozufferpore	1,265,731	1,316,329	2,582,060	580	131	3,078	157	102	369	4,417	2·64	·60	14·28	·60	·36	1·80	31·20	29·64	13·68	3,852	3,197	35·72	28·56	118
	Durbhanga	1,296,758	1,337,639	2,635,447	2,564	33	3,742	141	85	278	6,849	11·64	3·12	12·72	·12	·48	2·13	30·36	22·32	15·00	2,459	1,911	24·60	19·20	128
	Saran	1,060,847	1,109,832	2,235,679	443	119	2,299	183	86	1,021	4,151	2·28	·60	12·00	·96	·36	5·23	21·73	15·36	17·28	2,227	1,924	33·84	26·88	125
	Chumparun	876,637	850,981	1,721,698	1,677	448	1,845	23	71	316	4,370	11·64	3·12	12·72	·12	·48	2·13	30·36	29·16	18·96	3,419	3,136	42·24	37·56	112
BHAGULPORE	Monghyr	969,126	1,009,650	1,978,776	2,249	14	3,845	52	70	325	6,555	13·68	·08	23·40	·24	·36	1·92	39·84	29·16	23·88	3,014	2,595	36·84	31·44	117
	Bhagulpore	979,119	987,039	1,966,158	2,018	4	2,997	54	43	493	5,609	12·24	·02	18·24	·24	·24	3·00	34·20	45·36	23·85	3,014	2,595	34·84	31·44	117
	Purneah	357,080	311,607	1,848,687	911	11	2,578	15	29	46	3,590	5·88	·06	16·68	·09	·12	·24	23·28	29·76	24·60	1,941	1,619	24·84	21·60	114
	Maldah	344,998	363,450	710,448	456	...	954	5	13	60	1,487	7·68	...	16·08	·06	·12	·96	25·08	31·08	26·76	852	635	29·40	20·88	140
	Sonthal Pergunnahs ...	786,330	782,763	1,568,093	219	4	1,477	21	22	224	2,367	1·56	·02	14·28	·12	·12	1·68	18·00	16·20	17·16	1,276	1,091	19·44	16·68	116
ORISSA	Cuttack	877,702	917,363	1,795,065	146	41	1,364	249	102	724	2,626	·96	·24	9·00	1·56	·60	4·80	17·52	19·80	33·24	1,335	1,258	18·60	16·44	113
	Poori	446,609	441,378	888,427	21	88	280	134	36	683	1,242	·24	1·08	3·72	1·80	·48	9·12	16·68	24·60	75·00	679	572	18·00	15·48	116
	Balasore	461,481	483,819	945,300	41	8	549	277	36	383	1,296	·48	·09	6·96	3·48	·36	4·80	16·44	21·36	61·92	689	607	17·88	15·00	119
CHOTA NAGPORE.	Hazaribagh	544,903	559,839	1,104,742	17	1	2,501	33	55	268	2,875	·12	·01	27·12	·24	·48	2·88	31·20	30·24	21·24	1,431	1,444	31·44	39·84	101
	Lohardugga	706,657	812,587	1,519,244	...	10	3,163	135	10	756	4,074	...	·07	23 52	·96	·07	5·52	30·36	21·00	17·40	2,174	1,990	32·64	27·96	116
	Singbhum	226,681	227,094	453,775	10	11	423	24	15	120	613	·24	·24	11·16	·84	·36	3 12	16·20	21·36	23·08	350	263	18·43	13·80	133
	Manbhum	535,338	532,900	1,068,238	7	43	1,803	53	32	378	2,116	·07	·48	18·12	·60	·36	4 20	23·88	23·76	21·60	1,094	1,022	24·96	23·92	108
	TOTAL FOR THE PROVINCE.	33,063,700	33,195,834	65,859,534	16,020	1,748	87,129	2,879	2,439	14,235	124,450	2·88	·24	15·84	·48	·36	2·52	22·56	25·08	20·88	67,075	57,375	24·60	20·64	119

DIVISIONS.	DISTRICTS.	Class. Deaths among — Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Class. Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Age. Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
BURDWAN ...	Burdwan	...	1,721	377	...	...	...	18·36	17·04	...	.....	422	117	49	84	142	296	278	240	182	288	160·60	10·68	3·48	7·44	13·80	13·92	15·00	18·84	22·44	43·44
	Bankura	...	1,394	65	...	154	...	18·12	16·80	...	21·84	340	166	83	52	93	182	180	130	133	244	148·44	16·32	6·60	5·76	11·76	12·12	14·76	22·56	25·56	52·56
	Birbhum	...	1,216	336	...	35	...	25·52	24·72	...	29·04	467	135	73	51	61	149	174	160	130	183	335·76	20·16	8·64	7·56	11·40	13·08	16·92	23·08	26·88	47·52
	Midnapore	...	2,702	269	...	218	...	14·88	19·56	...	22·25	571	374	196	127	190	377	322	371	263	487	109·56	16·32	6·72	6·12	9·96	9·48	10·56	18·96	18·96	42·60
	Hughli	...	838	255	...	...	...	18·60	23·52	...	...	145	70	44	29	67	135	156	155	107	177	102·60	14·16	7·68	5·52	13·44	12·48	17·40	24·60	26·76	57·48
	Serampore	...	526	106	...	...	...	21·60	21·24	...	...	81	53	44	32	27	77	88	89	53	97	96·96	19·92	15·60	12·48	10·20	13·08	18·12	23·40	25·08	59·76
	Total (Hughli including Serampore).	...	1,356	361	...	...	...	19·68	22·80	...	...	226	123	88	61	94	212	244	235	160	274	100·44	16·20	10·32	7·92	12·36	12·72	17·64	24·12	26·16	58·20
PRESIDENCY ...	Howrah	1	701	218	...	...	5·52	16·68	19·80	...	...	172	119	65	24	48	111	81	75	65	160	110·76	21·00	9·96	4·68	9·96	10·92	10·32	14·64	20·76	49·44
	24-Pergunnahs	7	1,368	650	...	...	8·16	15·00	12·48	...	...	263	231	166	86	118	248	230	198	181	242	71·64	14·40	8·88	6·36	10·32	9·48	11·04	14·88	22·80	28·80
	Nuddea	13	892	1,053	...	...	24·24	14·64	13·68	...	...	378	269	163	123	131	178	176	140	146	254	118·92	15·84	7·68	8·52	12·84	8·04	9·24	10·08	16·32	29·04
	Jessore	...	1,305	1,855	...	...	...	20·28	19·32	...	...	373	461	296	210	229	369	348	275	218	411	86·88	24·12	12·24	12·84	18·48	13·56	15·72	17·16	20·76	41·64
	Murshidabad	2	932	841	...	...	51·00	17·52	17·04	...	...	316	228	124	61	88	197	204	171	139	247	136·08	19·32	8·28	6·00	10·68	11·52	13·92	16·44	21·60	38·16
	Khulna	3	908	1,031	...	...	46·12	20·76	22·20	...	...	274	306	214	91	96	228	192	146	111	284	104·44	28·68	14·80	9·96	12·04	13·68	15·48	17·28	20·40	54·48
RAJSHAHYE ...	Dinajpur	...	1,315	1,508	...	...	...	21·96	22·68	...	...	331	241	163	149	188	443	499	344	222	243	113·40	16·56	7·68	11·88	19·20	20·64	26·40	28·68	33·36	39·12
	Rajshahye	...	624	1,995	...	...	...	25·80	22·68	...	...	388	349	274	192	204	368	317	2 2	1·4	184	148·44	25·68	15·24	17·16	23·40	18·96	19·68	19·80	22·44	31·32
	Rungpore	...	1,299	2,068	...	...	...	18·64	19·32	...	...	414	257	225	151	235	496	536	441	273	340	96·84	12·84	8·52	9·00	18·48	16·56	19·08	24·84	24·84	37·08
	Bogra	...	196	841	...	...	...	16·68	16·92	...	...	187	113	103	60	56	98	109	102	79	110	146·40	16 44	10·08	9·84	11·28	9·36	12·36	18·60	26 04	35·76
	Pubna	...	569	1,463	...	...	...	18·48	18·48	...	...	242	359	245	127	117	201	206	173	96	257	80·16	23·88	13·92	12·00	14·76	11·88	13·68	17·04	15·72	35·40
DACCA ...	Darjiling	1	739	22	14	...	14·16	69·72	32·16	8·88	...	78	78	46	56	51	157	123	71	54	62	299·04	57·48	29·52	42·84	46·32	53·88	57·36	62·16	89 28	146·80
	Julpaiguri	2	1,033	576	...	...	192·00	33·60	33·12	...	...	374	145	86	63	89	187	218	162	114	173	277·92	25·08	11·64	12 36	25·20	23·16	30·72	33·12	40·32	64·32
	Dacca	9	1,173	1,388	...	...	12·24	16·32	13·20	...	...	400	395	206	118	134	282	248	225	146	433	81·48	16·32	7·32	6·24	9·84	9 36	10·56	14·52	15·48	39·12
	Faridpore	1	849	1,276	...	...	4·52	16·48	15·60	...	...	300	374	213	123	108	182	213	195	168	259	88·80	20·88	10·56	8·40	10·68	8·04	11·40	15·00	20·52	30·60
	Backerganj	6	1,052	2,683	...	...	19·36	19·20	25·32	...	...	795	711	327	139	131	300	317	262	253	456	204·12	34 20	14·64	8·52	9·48	10·44	14·64	18·36	28·68	56·40
CHITTAGONG ...	Mymensing	1	1,507	2,745	...	88	79·44	18·24	15·36	...	40·68	508	621	431	246	222	545	441	391	286	630	81·72	18·12	10·80	9·60	10·68	12·76	12·60	17·64	21·96	44·16
	Chittagong	1	3·7	1,39	127	...	11·28	16·80	20·76	28·08	...	204	270	105	111	214	200	157	157	269	74·04	22·32	13·68	9·24	13·80	15·24	17·40	19·32	27·96	52·32
	Noakhali	...	464	1,779	...	...	...	26·28	34·80	...	...	424	526	338	117	83	118	135	111	122	295	218·52	56·28	27·48	15·72	14·28	10 80	15·36	18·96	31 56	52·44
	Tipperah	...	772	1,585	...	...	...	18·12	18·84	...	...	380	359	189	111	162	267	232	168	159	330	128·76	20·64	9·48	8·04	15·24	12·72	13·80	15·00	23·04	50·28
PATNA ...	Patna	5	4,861	485	...	...	23·16	35·52	27·24	...	...	612	824	451	240	171	531	458	484	496	748	177·84	46·80	23·40	17·16	18·12	21·84	22·92	31·08	47·52	69·84
	Gya	...	4,467	519	...	...	...	28·32	26·64	...	...	555	468	257	223	174	459	564	640	731	915	155·64	20·16	10·56	12·60	14·88	15·60	21·48	33·96	61·56	86·64
	Shahabad	...	4,366	304	...	...	...	28·92	24·84	...	...	511	376	176	157	121	510	602	642	653	921	136·56	18·36	7·68	9·24	11·40	12·60	14·76	21·36	34·56	47·16
	Monufferpore	1	3,878	538	...	...	12·16	20·52	20·40	...	...	435	772	351	196	142	435	475	486	488	607	117·36	28·44	11·40	9·12	10·08	12·60	14·76	21·36	34·56	52·68
PATNA ...	Durbhanga	2	5,995	852	...	...	73·80	30 84	33·00	...	...	475	1,21	753	344	3·4	895	863	719	662	619	115·16	45·24	22·44	16·20	20·40	24·84	25·68	30·60	46·56	52·68
	Sarun	...	5,698	463	...	...	...	21·96	20·16	...	...	606	623	253	122	134	417	436	395	394	767	135·72	26·64	9·00	6 12	10·80	13·80	14·88	19·68	33·96	66·72
	Chumparun	14	3,770	588	...	...	36·76	30·60	28·92	...	...	436	648	472	285	211	539	5 2	428	352	449	118·2	38·04	23·16	19·44	22·08	22·32	24·36	28·56	40·56	56·28
BHAGULPORE ...	Monghyr	2	5,872	674	...	7	21·96	39·72	43 08	...	11·64	691	1,29	645	343	233	710	630	666	537	831	224·88	60·24	25·80	20·16	20·64	27·36	25·92	39·12	51·04	83·08
	Bhagulpore	2	5,042	565	...	...	41·52	34·20	36·36	...	...	706	847	540	331	316	772	712	550	414	481	2,9 80	44·16	20·76	19 72	20·76	27·60	28·32	34·56	45·84	54·00
	Purneah	1	2,416	1,173	...	...	36·60	28·68	18 24	...	...	235	347	204	227	241	587	569	462	282	396	74·52	19·44	11·04	14·28	20·16	22·56	23·28	29·40	33·72	49·80
	Maldah	...	883	604	...	...	...	27·84	21·96	...	...	141	246	144	84	96	217	189	131	83	156	85·44	25·28	15·84	13·68	19·20	22·32	22·44	23·40	26·28	41·32
	Sonthal Pergunnahs ...	1	1,351	212	...	803	3·84	19·08	23·28	...	15·72	334	327	205	134	156	293	265	202	216	229	128·28	17·16	8·40	8·88	16·44	15·48	15·24	18·72	33 00	35·40
ORISSA ...	Cuttack	4	2,566	56	...	...	20·40	17·64	14 04	...	...	516	275	158	121	163	262	255	218	274	384	64·86	14·64	6·96	7·44	14·28	10·32	12·72	16·32	28·44	40·92
	Puori	...	1,328	14	...	...	...	16·80	11·88	...	...	22	124	67	39	59	113	131	145	125	220	173·52	12·96	6·24	5·16	10 56	8 52	12·48	16·32	20·64	25·32
	Balasore	...	1,267	29	...	...	...	16·56	14·52	...	...	351	122	65	51	70	121	117	97	98	204	193·32	12·72	5·52	5·88	11·40	8·76	10·56	12·48	21·36	49·44
CHOTA NAGPORE.	Hazaribagh	5	2,544	251	...	5	33·00	31·68	...	8·16	35·88	517	268	130	89	75	249	347	342	370	488	178·56	20·28	8·28	9·12	11·88	16·56	26·28	42·96	80·28	134·64
	Lohardugga	35	1,913	247	...	1,879	11·52	26·40	38·28	...	...	492	347	193	185	220	566	625	524	424	502	138·60	17·40	8·52	12·2	22·92	26·76	33·48	47·64	68·12	92·64
	Singbhum	3	607	3	...	...	12·00	16·20	15·36	...	...	103	62	37	23	49	75	67	70	68	59	141·36	12·00	5·88	5·2	15·36	12·96	12·48	21·48	36·24	36·24
	Manbhum	1	1,918	124	...	76	21·72	25·44	32·64	...	15·80	442	273	120	72	128	256	229	185	178	234	185·28	23·40	7·92	8·0	16·92	18·24	18·60	25·44	37·80	53·88
	TOTAL FOR THE PROVINCE.	118	64,765	36,116	141	3,310	14·52	23·76	20·68	21·24	23·76	17,205	16,767	9,871	5,993	6,238	14,386	14,331	12,546	10,838	16,255	133·32	24·69	11 88	10·68	14·88	15·60	18·00	23·64	33·24	52·68

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 4th September 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 23rd August 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 23rd August 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 20·7 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 2·7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, except 1887 and 1888—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of births per 1,000 of the population per annum	30·0	23·4	19·1	19·8	24·5	25·4	20·7

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 2nd August 1890.	9th August 1890.	16th August 1890.	23rd August 1890.	Towns.	Weeks ending— 2nd August 1890.	9th August 1890.	16th August 1890.	23rd August 1890.
Burdwan	13·7	13·7	15·3	16·8	Naraingunj	24·8	16·6	33·1	16·6
Midnapore	15·5	13·9	12·4	18·6	Chittagong	4·7	4·7	16·4	9·4
Hughli and Chinsurah	14·8	16·4	6·6	14·8	Comillah	15·4	11·5	11·6	19·3
Serampore	27·5	23·6	23·6	13·7	Patna City	14·9	13·3	13·6	15·3
Utterpara	18·9	16·9	9·4	37·7	Gya	17·8	21·9	28·7	31·4
Howrah	17·8	14·3	18·3	21·8	Arrah	13·2	20·3	26·3	41·9
Bali	10·5	7·0	7·0	21·1	Mozufferpore	14·6	17·0	18·2	18·2
Krishnagar	5·7	11·4	13·3	15·2	Durbhanga	19·7	29·9	18·1	18·9
Ranaghat	6·0	24·0	6·0	12·0	Chupra	6·0	2·0	12·1	18·1
Santipore	14·0	17·5	14·0	14·0	Bhagulpore	18·1	23·6	25·3	24·4
Jessore	18·4	6·1	.....	12·2	Monghyr	23·5	38·9	40·7	37·1
Rampore Beauleah	31·5	15·8	36·8	34·2	Purneah	10·4	13·9	6·9	...
Darjiling	7·4	37·0	22·2	88·9	Poori	6·3	12·6	6·3	12·6
Dacca	11·0	14·9	17·5	10·4	Total ...	15·3	17·4	18·7	20·7

It will be seen that last week the highest birth-rate was returned from Darjiling (88·9), and the lowest from Chittagong (9·4). No births were registered during the week in Purneah town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 24·8 per 1,000 of the population. The rate of the week is 8·2 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of deaths per 1,000 of the population per annum	46·9	26·7	29·0	32·5	27·6	33·0	24·8

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 2nd August 1890.	9th August 1890.	16th August 1890.	23rd August 1890.	Towns.	Weeks ending— 2nd August 1890.	9th August 1890.	16th August 1890.	23rd August 1890.
Burdwan	19·8	18·7	10·7	16·8	Naraingunj	16·6	13·4	16·6	24·8
Midnapore	7·7	15·5	17·0	23·2	Chittagong	11·7	9·4	21·1	16·4
Hughli and Chinsurah	26·3	15·1	31·2	19·7	Comillah	26·9	7·7	23·1	26·9
Serampore	51·0	51·0	35·4	49·1	Patna City	13·0	20·1	15·8	20·4
Utterpara	37·7	9·4	37·7	18·8	Gya	44·4	56·7	56·7	66·3
Howrah	10·9	20·0	19·5	17·3	Arrah	8·4	20·3	13·2	13·0
Bali	14·9	10·5	24·6	28·1	Mozufferpore	15·8	23·1	20·7	25·5
Krishnagar	5·7	11·4	11·4	15·1	Durbhanga	16·5	34·6	27·5	14·9
Ranaghat	24·0	24·0	12·0	29·9	Chupra	11·1	8·0	15·1	16·1
Santipore	17·5	19·3	14·0	26·3	Bhagulpore	14·5	13·7	24·4	19·8
Jessore	12·2	12·2	18·4	58·1	Monghyr	15·4	28·9	21·7	32·6
Rampore Beauleah	15·8	21·0	34·3	28·3	Purneah	13·9	24·3	18·9	24·3
Darjiling	88·9	66·7	66·7	37·0	Poori	35·6	23·1	25·3	42·0
Dacca	27·3	25·3	20·1	24·7	Total ...	19·2	23·3	22·3	24·8

It will be seen that last week the highest mortality occurred in the town of Gya (66·3) and the lowest in Arrah (12·)

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Santipore ...	... 15·8	Jessore ...	... 36 7	Gya ..	.. 21·1
Mozufferpore ...	... 13·4	Gya ...	... 29 4	Serampore	... 19·6
Gya ...	... 13 0	Rampore Beauleah	... 23 6	Poori ...	... 18·9
Patna City ...	... 7 8	Comillah ...	... 23·1		
Chupra ...	... 4·0	Poori ..	... 20·8		

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·7 from cholera, against 3·5 per 1,000 in the preceding week; 10 5 from fever, against 9·4; 2·7 from bowel-complaints, against 3·9; 7·4 from other causes, against 5·4 in the preceding week. Small-pox and injury exhibit the same ratios as in the preceding week, viz., ·1 and ·4 respectively.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	25·4	Christians	7·5	Under 1 year	... 180 3
Females	24·1	Hindus	... 27·2	1 and under 5 years	... 38 0
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	105	Mahomedans	... 19·1	5 „ 10 „	... 21·7
		Other Classes	.. 76·8	10 „ 15 „	... 15·1
				15 „ 20 „	... 18·0
				20 „ 30 „	... 12·8
				30 „ 40 „	... 11·9
				40 „ 50 „	... 15·0
				50 „ 60 „	... 27·5
				60 years and upwards	... 62·5

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 8th September 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 23rd August 1890.

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.															Sex.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.											
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS. Males.	DEATHS. Females.	RATIO PER 1,000 OF POPULATION PER ANNUM. Males.	RATIO PER 1,000 OF POPULATION PER ANNUM. Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion which mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,069	16,017	34,086	7	4	11	10·7	6·1	16·8	175	..	...	8	1	...	2	11	...	...	12·2	1·5	...	3·1	16·8	10·7	4	7	11·5	22·7	50
Midnapore ...	Midnapore ...	16,927	16,633	33,560	5	7	12	7·7	10·8	18·6	71	1	...	4	6	...	4	15	1·5	...	6·2	9·3	...	6·2	23·2	17·0	8	7	24·6	21·9	112
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	4	5	9	6·6	8·2	14·8	80	..	...	4	3	...	5	12	..	...	6·6	4·9	...	8·2	19·7	31·2	7	5	23·0	16·4	140
Serampore ...	Serampore ...	13,559	12,937	26,496	3	4	7	5·9	7·8	13·7	75	2	..	9	3	1	10	25	3·9	...	17·7	5·9	2·0	19·6	49·1	33·4	10	15	38·4	60·3	63
	Uttierpara	3,046	2,464	5,510	1	3	4	9·4	23·3	37·7	33	1	...	...	1	...	...	2	9·4	...	..	9·4	..	...	18·9	37·7	2	...	34·1	...	No female death.
Howrah ...	Howrah	53,153	37,660	90,813	21	17	38	12·0	9·7	21·8	123	...	...	15	4	1	11	31	...	...	8·6	2·3	·6	6·3	17·8	19·5	13	18	12·7	24·9	51
	Bali	7,836	6,979	14,815	3	3	6	10·5	10·5	21·1	100	...	...	4	4	...	...	8	...	...	14·0	14·0	...	...	28·1	24·6	5	3	33·2	22·4	148
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	3	7	10	5·7	13·2	18·9	42	...	...	4	1	...	3	8	..	...	7·5	1·9	...	5·7	15·1	11·4	2	6	7·8	22·0	35
	Ranaghat	4,028	4,655	8,683	1	1	2	6·0	6·0	12·0	100	...	...	2	...	...	3	5	...	...	12·0	...	...	17·9	29·9	12·0	...	5	...	55·9	No male death.
	Santipore	13,706	15,979	29,687	5	3	8	8·8	5·2	14·0	166	9	...	5	...	...	1	15	15·8	...	8·8	...	...	1·7	26·3	14·0	7	8	26·6	26·0	102
Jessore ...	Jessore	4,830	3,665	8,495	1	1	2	6·1	6·1	12·2	100	...	...	6	1	...	2	9	..	..	36·7	6·1	...	12·2	55·1	18·4	4	5	43·1	70·9	60
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	7	6	13	18·4	15·8	34·2	116	.	...	9	...	...	1	10	...	...	23·6	...	...	2·6	26·3	34·2	6	4	29·0	13·0	126
Darjiling ...	Darjiling	4,579	2,439	7,018	7	5	12	51·9	37·0	88·9	140	..	...	2	3	..	...	5	...	...	14·8	22·2	...	...	37·0	66·7	4	1	45·4	21·3	213
Dacca ...	Dacca	42,783	37,379	80,161	11	5	16	7·1	3·2	10·4	220	2	...	14	6	1	15	38	1·3	...	9·1	3·9	·6	9·7	24·7	20·1	29	9	35·2	12·5	281
	Naraingunj ...	7,605	4,956	12,561	4	...	4	16·6	...	16·6	No female birth.	...	...	4	...	1	1	6	...	...	16·6	...	4·1	4·1	24·8	16·6	2	4	13·7	42·9	42
Chittagong ...	Chittagong ...	13,340	8,799	22,139	3	1	4	7·0	2·3	9·4	300	...	...	3	3	..	1	7	...	...	7·9	7·0	...	2·3	16·4	21·1	4	3	15·6	17·7	88
Tipperah ...	Comillah	8,153	5,353	13,506	3	2	5	11·6	7·7	19·3	150	...	..	6	...	...	1	7	...	...	23·1	...	...	3·8	26·9	23·1	4	3	25·5	29·1	87
Patna	Patna City ...	78,763	81,475	160,237	24	23	47	7·8	7·5	15·3	104	24	...	22	5	...	12	63	7·8	...	7·1	1·6	...	3·9	20·4	15·3	40	23	26·4	14·7	179
Gya	Gya	38,290	37,831	76,121	21	25	46	14·3	17·1	31·4	84	19	1	43	2	1	31	97	13·0	·7	29·4	1·4	·7	21·1	66·3	56·7	46	51	62·5	70·1	89
Shahabad ...	Arrah	20,960	22,505	43,465	20	15	35	23·9	17·9	41·9	133	...	...	5	3	...	2	10	...	...	6·0	3·6	...	2·4	12·0	13·2	6	4	14·9	9·2	162
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	6	9	15	7·3	10·9	18·2	66	11	...	4	...	...	6	21	13·4	...	4·8	...	...	7·3	25·5	20·7	11	10	24·8	26·5	93
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	13	11	24	10·2	8·7	18·9	118	3	...	9	4	...	3	19	2·4	...	7·1	3·1	...	2·4	14·9	27·5	8	11	12·3	17·7	69
Saran	Chupra	25,116	26,554	51,670	10	8	18	10·1	8·0	18·1	125	4	...	3	...	...	9	16	4·0	...	3·0	...	...	9·1	16·1	15·1	10	6	20·7	11·7	177
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	14	13	27	12·6	11·8	24·4	107	...	...	7	...	...	7	14	...	...	6·3	...	...	6·3	12·6	24·4	6	8	10·5	15·0	70
Monghyr ...	Monghyr	28,154	29,366	57,520	20	21	41	18·1	19·0	37·1	95	...	...	10	3	1	11	25	...	...	9·0	2·7	·9	9·9	22·6	21·7	15	10	27·7	17·7	156
Purneah ...	Purneah	8,463	6,553	15,016	...	...	...	...	...	...	...	...	...	6	...	...	1	7	...	...	20·8	...	...	3·4	24·2	13·9	6	1	36·9	7·9	467
Pooree ...	Pooree	13,247	11,537	24,784	4	2	6	6·4	4·2	12·6	200	...	1	6	2	2	9	20	...	2·1	12·6	4·2	4·2	18·9	42·0	25·2	10	10	39·3	45·1	87

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.										Age.											
		Deaths among—					Ratio per 1,000 of Population per annum.					Deaths.									Ratio per 1,000 of Population per annum.								
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	10	1	...	..	...	22·0	5·1	..	...	...	...	1	...	...	2	3	...	1	4	...	...	22·3	...	...	13·1	22·6	...	21·2	140·4
Midnapore ...	Midnapore ...	...	13	2	...	...	...	26·1	14·4	..	..	2	3	..	...	1	3	1	1	2	2	140·0	66·3	...	...	16·5	21·2	9·4	14·0	50·4	56·8
Hughli	Hughli and Chinsurah	...	12	...	...	...	...	24·7	...	...	...	3	1	1	1	1	1	...	1	3	...	194·3	23·4	18·0	21·6	20·7	8·4	...	12·5	60·0	...
Serampore ...	Serampore ...	...	20	5	...	...	...	41·3	277·2	...	...	3	4	2	1	1	3	2	...	5	4	219·7	115·2	41·4	23·4	23·8	29·0	20·9	...	135·8	149·5
	Utterpara	...	2	...	...	...	...	19·5	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	45·2	49·0	...	...	...
Howrah ..	Howrah	...	23	7	...	1	...	17·6	17·7	...	215·8	5	4	3	2	2	2	1	3	6	3	126·0	37·5	24·8	15·8	14·2	4·6	2·7	13·3	56·8	4 1·6
	Bali	...	7	1	...	...	...	27 1	39·7	...	...	..	1	2	...	...	1	1	...	...	3	...	52·1	57·6	...	...	15·5	18·6	...	...	213·1
Nuddea ...	Krishnagar ...	...	6	2	...	...	...	16·7	12·6	...	..	2	...	...	...	1	1	...	2	1	1	209·7	...	...	...	25·3	10·8	...	31·9	24·7	30·1
	Ranaghat	...	4	1	...	...	...	28 4	38·1	...		1	1	...	1	...	...	...	1	...	1	251·2	65·4	...	59·9	...	...	...	51·8	..	91·4
	Santipore	...	12	3	...	...	...	30·1	17 4	...	...	...	1	3	2	...	3	1	...	1	4	...	17·9	41·3	35·9	...	31·8	12·0	...	22 6	105·9
Jessore ..	Jessore	...	5	4	...	...	...	57·6	54·4	...	...	2	1	...	1	...	1	1	2	...	1	536·1	105·3	...	78·2	...	25·8	34·0	99·0	...	113·5
Rajshahye ...	Rampore Beaulah	...	6	4	...	...	...	31·5	21·2	...	...	...	...	2	...	...	1	2	1	2	2	...	...	50·0	...	...	12·5	28·9	21·2	83 8	108 0
Darjiling ...	Darjiling	...	5	..	...	...	...	56·6	...	...	..	1	2	...	...	1	1	...	...	...	...	429·8	161·7	...	...	81·3	26·0	...	...	...	...
Dacca	Dacca	1	24	13	...		109·5	31·0	17 2	...	..	5	7	2	...	3	3	9	3	...	6	137·0	49·4	10·5	...	21·4	10·2	40·1	18·6	...	56·0
	Naraingani ...	...	2	4	...	...	...	16·4	33·8	...	..	2	1	...	...	...	1	1		1	...	372·8	45·6	...	...	...	19·5	24 3	...	64·5	...
Chittagong ..	Chittagong ...	...	1	6	...	...	...	9·0	20·4	..	...	...	1	1	3	...	...	...	1	...	1	...	26·4	20·8	60·5	...	...	...	23·0	...	65·3
Tipperah ...	Comillah	...	3	4	...	.	...	26·2	28·1	...	...	3	...	1	...	1	...	...	..	1	1	525·3	...	31·9	...	41·3	...	..	...	64·9	70·7
Patna	Patna City ...	...	55	8	...	..	...	24·0	10·2	...	..	9	4	10	4	3	7	6	10	3	7	108·6	14·3	30·9	14·4	14·0	12·6	1 ·4	27·6	11·0	26·4
Gya ...	Gya	...	81	16	..	...	..	70·2	51·7	...	.	21	17	5	8	2	8	5	4	6	21	610·1	139·1	37·2	61·8	19·9	28·3	20·4	21·3	47·5	212·2
Shahabad ...	Arrah	...	8	2	..	.	...	13 4	8·4	..	...	5	1	..	..	1	...	...		1	2	201·9	11·7	...	...	16·2	...	..	...	16·8	36·1
Muzaffarpore ..	Muzafferpore ...	..	11	10	.	.	..	19 0	41·7	...	..	5	3	5	1	1	...	3	...	1	2	272·3	38·6	57·8	13·1	17 2	...	22 4	...	16·0	42·7
Durbhanga ...	Durbhanga ...	..	15	4	..	.		16·1	11·8	..	...	3	2	2	2	2	3	.	3		2	100·2	13·7	13·3	18 7	25 9	11·7	...	21·0	...	32·6
Saran	Chupra	...	15	1	...	...	...	19·7	4·4	...	...	5	3	3	..	1	1	...	.	2	1	154·3	30·2	26·2	...	15·0	5·6	..	...	25·2	15·3
Bhagulpore ...	Bhagulpore ...	...	11	3	...	...	.	14·4	9·1	...	...	3	2	...	..	1	2	1	1	2	2	136·7	19·2		...	12·4	9·5	5·6	8·3	24·4	28·9
Monghyr ...	Monghyr	...	20	5	...	...	...	23·3	20·7	..	...	5	5		1	1	2	1	1	1	4	170·1	75 2	..	9·1	13·8	10·1	5·8	8·2	13·1	58·0
Purneah ...	Purneah	..	6	1	...	...	.	34·0	9·2	...	..	2	.		1		1	1	1	1		367·5		..	49·5	...	15·8	18·2	28·0	55·5	.
Puri ...	Poori	..	19	1	.	...	.	40·3	217·6	...	...	1	...	3	...	5	4	.	1	1	5	171·6	..	69·6		139·9	39·4		15·6	23·3	144·0
	Total ...	1	396	108	...	1	7·5	27·2	19·1	...	76·8	88	68	46	28	28	52	40	36	41	79	189·3	38·0	21·7	15·1	18·0	12·8	11·9	15·0	27·5	62·5

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 8th September 1890.

W. H. GREGG, *Dip. Pub. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of June 1890.

Date.		River Ganges.																River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
		Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beauleah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
	Miles.	80		134	48	90		177	87	287	110	381	94	471	90	591	120						
	Distance.	From Allahabad ...		From Allahabad ...	From Mirzapur ...	From Benares		From Benares	From Buxar ...	From Benares	From Dinapur	From Benares	From Monghyr	From Benares	From Sahebgunge ...	From Benares	From Rampore Beauleah ...						
		Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
		Below zero.		Below zero.		Below zero.				Below zero.		Below zero.		Below zero.									
1st	... ...	0·25	203·97	2·27	194·53	0·08	168·97	7·20	141·43	2·08	99·77	2·08	65·92	0·75	41·25	5·17	14·11	1·67	35·41	3·25	7·55	6·40	155·16
2nd	... ...	0·25	203·97	2·31	194·49	0·08	168·97	7·25	141·48	1·83	100·02	1·75	66·25	0·46	41·54	5·67	14·61	1·83	35·57	4·17	8·47	11·41	161·16
3rd	... ...	0·25	203·97	2·36	194·44	0·08	168·97	7·35	141·58	1·79	100·06	1·83	66·17	0·33	41·67	6·17	15·11	1·83	35·57	4·00	8·30	13·40	161·76
4th	... ...	0·17	206·05	2·40	194·40	0·08	168·97	7·40	141·63	1·75	100·10	1·67	66·33	0·25	41·75	6·67	15·61	1·83	35·57	4·17	8·47	14·70	163·46
5th	... ...	0·17	206·05	2·46	194·34	0·08	168·97	7·55	141·78	1·67	100·19	1·42	66·58	0·21	41·79	7·50	16·44	1·83	35·57	4·50	8·80	16·00	164·76
6th	... ...	0·17	206·05	2·50	194·30	0·08	168·97	7·65	141·88	1·50	100·35	1·17	66·83	0·13	41·87	8·50	17·44	1·88	35·62	4·75	9·05	17·00	165·76
7th	... ...	0·17	206·05	2·54	194·26	0·17	168·88	7·75	141·98	1·50	100·35	1·17	66·83	Above zero. 0·00	42·00	9·83	18·77	1·75	35·49	4·42	8·72	18·00	166·76
8th	... ...	0·17	206·05	2·58	194·22	0·17	168·88	8·00	142·23	1·42	100·43	Above zero. 0·42	67·58	0·00	42·00	9·83	18·77	1·75	35·49	4·42	8·72	18·00	166·76
9th	... ...	0·08	206·14	2·61	194·17	0·17	168·88	8·30	142·53	1·33	100·52	1·00	69·00	0·42	42·42	11·03	20 02	1·67	35·41	4·17	8·47	19·60	168·36
10th	... ...	0·08	206·14	2·38	194·42	0·17	168·88	9·25	143·48	1·34	100·47	2·00	70 00	1·96	43·96	12·17	21·11	1·67	35·41	3·58	7·88	20 70	169·46
11th	... ...	0·08	206·14	2·38	194·42	0·17	168·88	9·50	143·73	1·25	100·60	1·50	69 50	3·08	45·08	13·00	21·94	1·63	35·37	3·67	7·97	21·41	170·16
12th	... ...	Above zero. 0·50	206·72	2·00	194·80	0·08	168·97	8·90	143·13	1·17	100·69	1·00	69·00	3·25	45·25	13·42	22·36	1·63	35·37	3·83	8·13	22·00	170·76
13th	... ...	0·25	206·47	1·67	195·13	0·08	168·97	8·90	143·13	1·08	100·77	1·50	69·50	3·25	45·25	13·83	22·77	3·08	36·82	4·08	8·38	22·60	171·36
14th	... ...	0·58	206·80	1·50	195·30	0·08	168·97	9·30	143·53	Above zero. 0·17	102·02	2·33	70·33	3·42	45·42	14·42	23·36	3·67	37·41	4·17	8·47	22 80	171·56
15th	... ...	0·67	206·89	1·41	195·39	Above zero. 0·50	169·55	9·55	143·78	0·42	102·27	3·00	71·00	4·00	46·00	14·50	23·44	3·92	37·66	4·54	8·84	23·61	172·36
16th	... ...	0·67	206·89	1·41	195·39	0·58	169·63	9·70	143·93	0·67	102·52	3·75	71·75	4·54	46·54	14·67	23·61	4·17	37·91	4·75	9·05	24·40	173·16
17th	... ...	0·75	206·97	1·33	195·47	0·50	169·55	10·00	144·23	0·92	102·77	3·50	71·50	5·00	47·00	14·92	23·83	4·50	38·24	4·93	9·13	24·20	172·96
18th	... ...	0·75	206·97	1·25	195·55	0·58	169·63	10·20	144·43	1·08	102 93	3·00	71·00	5·00	47·00	15·00	24·94	5 25	38·99	4·67	8·97	24·30	173·06
19th	... ...	0 75	206·97	1·16	195·64	0·67	169·72	10·40	144·63	1·33	103·19	3·00	71 00	4·83	46·83	15·17	24·11	5·67	39·41	5·50	9·80	23·20	171·94
20th	... ...	0·92	207·14	1·00	195·80	0·75	169·80	10·50	144·73	1·67	103·52	3·50	71 50	4·79	46·79	15·42	24 36	5·75	39·49	6·00	10·30	22·80	171·56
21st	... ...	7·00	213·22	Above zero. 5·00	199·80	3·67	172·72	10·50	144·73	2·08	103·93	4·50	72·50	4·71	46·71	15·75	24·69	6·00	39·74	6·00	10·30	22·40	171·16
22nd	... ...	10·83	217·05	8·00	204·80	6·25	175·30	10·60	144·83	2·42	104·27	5·33	73·33	5·17	47·17	15·92	24 86	6·25	39 99	6·17	10·47	21·70	170·46
23rd	... ...	9·00	215·22	7·75	204·55	8·67	177·72	13·30	147·53	2·75	104·60	5·58	73 58	5·83	47·83	15·92	24·86	6·50	40·24	7·92	12·22	21·80	170·56
24th	... ...	7·50	213·72	7·00	203·80	9·58	178·63	14·90	149·13	5·08	106·93	6·00	74·00	6 17	48·17	15·92	24·86	6 67	40·41	12·00	16·30	21·70	170·46
25th	... ...	7·00	213·22	6·00	202·80	9·75	178·80	16·00	150·23	9·67	111·52	7·50	75·50	6·83	48·83	15 7	24·61	8·42	42·16	15·42	19 72	22·00	170·76
26th	... ...	16·80	222·72	10·00	206·80	9·33	178·38	16·70	151·93	10·75	112·60	10·00	78·00	8·33	50·33	15·67	24·61	11·83	45·57	18·58	22·88	22·60	171·36
27th	... ...	25·58	231·80	21·00	217·80	12·25	181 30	16·50	150·73	11·67	113·52	10·33	78·33	9·58	51·58	16·25	25·19	13·42	47·16	19·42	23·72	23·00	171·76
28th	... ...	32·58	238·80	30·00	226·80	21·33	190·38	18·80	153·03	11·75	113·60	11·00	79·00	10·79	52·79	16·83	25·77	14·33	48·07	19·08	23·38	23·05	171·81
29th	... ...	32·53	238·80	31·00	227·80	24·83	193·88	23·75	157·98	14·50	116·35	11·42	79 42	11·75	53·75	17·33	26·27	15·25	48·99	19·25	23·55	23·70	172·46
30th	... ...	32·00	238·22	30·00	226 80	25·25	194·30	25·10	159·33	17·91	119·77	13·00	81·00	12·83	54·83	17·67	26·61	16·33	50·07	18·25	22·55	23·90	172·66

CALCUTTA,
The 8th September 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of June 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual leases.					Grand Total.	During month.	Up to end of month.	During month.	Up to end of month.	
										Kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot-weather.	Total.						
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.	
ORISSA	Cuttack	Taldunda, 1st reach	1,342	129	.....	.....	.....	.....	10,011	.....	.....	.....	.....	.....	.....	10,011	9·88	11·98	8·57	10·00	
		Ditto, 2nd „	566	74																
		Machgong	776	.....	.....	.....	.....	.....	22,264	.....	.....	.....	.....	.....	.....	22,264	14·78	16·18	11·25	14·75	
																	10·10	12·10	11·64	13·46	
		Kendrapara	1,067	245·92	73·97	110	93	.....	48,450	.....	.....	.....	.....	.....	.....	48,450	7·26	9·71	15·13	15·90	
		Gobri	372·82	49·28	27·06	21	2	.....	2,287	.....	.....	.....	.....	.....	.....	2,287	3·72	7·42	12·19	15·69	
		Do. extension	648	64·68	46·88	.....	.....	.....	2,147	.....	.....	.....	.....	.....	.....	2,147	No gauge fixed.				
		Patamoondi	885	107·30	42·63	.....	5	.....	10,209	.....	.....	.....	.....	.....	.....	10,209	.....	.....	.....	.....	
		High Level, Range I	608	218·27	65·29	1,382	830	.....	25,023	.....	.....	70	5	.....	75	25,098	11·95	16·80	8·40	13·56	
		Ditto, ditto II	727·16	488·37	310·32	335	950	.....	2,392	.....	.....	20	.....	.....	20	2,412	.....	.....	.....	.....	
	Balasore	Ditto, ditto III	727·16	205·02	205·02	441	115	.....	34,400	.....	.....	.....	127	.....	127	34,527	8·29	12·83	10·85	14·10	
		Total	.....	.....	.....	2,289	1,995	.....	157,133	.....	90	133	.....	.....	222	157,405	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	134,482	.....	3,056	153	.....	.....	3,209	137,691	.....	.....	.....	.....	
SOUTH-WESTERN.	Midnapore	Midnapore	1,411	52	.....	.....	6,103	.....	64,469	.....	.....	.....	.....	.....	.....	64,469	17·73	23·95	9·68	13·31	16 Days discharging.
	Howrah	Panchkoorah	522	1	.....	.....	.....	.....	3,384	.....	.....	.....	.....	.....	.....	3,384	13·51	20·92	13·64	15·52	2 Days discharging.
		Tidal reaches, Ranges I-II	.....	.....	.....	.....	.....	.....	386	.....	.....	.....	.....	.....	.....	386	.....	.....	.....	.....	
		Total	.....	.....	.....	.....	6,103	.....	68,239	.....	.....	.....	.....	.....	.....	68,239	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	53,263	.....	.....	.....	.....	.....	.....	53,263	.....	.....	.....	.....	
SONE	Shahabad	Western Main	4,342	974	27	8,236	7,788	11,560*	.....	.....	.....	215	.....	309	524	12,084	8·19	9·03	9·97	10·15	
		Buxar	1,226	217	90	37,039	27,239	50,893*	.....	.....	.....	1,090	.....	2,300	3,390	54,283					
		Arrah	2,000	595	322	90,129	84,169	90,112	.....	169	.....	2,159	.....	5,600	7,928	98,040	10·46	12·16	9·12	10·01	
	Patna and Gya.	Eastern Main	1,466	344	260	8	13	1,132	.....	.....	.....	8	.....	.....	8	1,140	11·57	14·94	9·91	11·56	
		Patna				477	312	36,976	.....	.....	.....	390	.....	.....	390	37,366					
		Total	.....	.....	.....	135,889	119,521	190,673	.....	169	.....	3,862	.....	8,209	12,240	202,913	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	157,769	.....	1,439	.....	4,232	8	11,109	16,788	174,557	.....	.....	.....	.....	
		Grand Total	.....	.....	.....	138,178	127,619	190,673	225,422	169	90	3,994	.....	8,209	12,462	428,557	.....	.....	.....	.....	
		Grand Total of the corresponding period of last year	.....	.....	.....	.....	.....	157,769	187,745	1,439	3,056	4,385	8	11,109	19,997	365,511	.....	.....	.....	.....	

* The total 62,985 entered in the return for May last was incorrect, and should have been 62,453 as now entered.

CALCUTTA,
The 8th September 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of June 1890.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
467	1. Grain ...	590	5,739·5	6,329·5	3,57,092	6,329·5	3,57,092
2	2. Cotton ...	.....	10	10	1,500	10	1,500
106	3. Oilseeds ...	18	1,616·25	1,634·25	2,00,945	1,634·25	2,00,945
158	4. Salt ...	1,677	.....	1,677	4,77,981	1,677·0	4,77,981
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
11	6. Metal ..	21·18	·18	21·36	19,475	21·36	19,475
58	7. Building materials	292	446	738	9,730	738	9,730
929	8. Miscellaneous ...	2,302	4,614	6,916	8,45,130	6,916	8,45,130
21	9. Fuel ...	169	85	254	3,294	254	3,294
Rafts 52	10. Timber ...	825 c. ft.	32,848 c. ft.	33,673 c. ft.	36,712	33,673 c. ft.	36,712
„ 8	11. Bamboos ...	143 „	1,600 „	1,743 „	268	1,743 „	268
1,752 & 60 rafts.	12. Total ...	5,069·18 & 968 c. ft.	12,510·93 & 34,448 c. ft.	17,580·11 & 35,416 c. ft.	19,52,127	17,580·11 & 35,416 c. ft	19,52,127
1,313 & 36 rafts.	13. Total of same month last year	4,631 & 1,153 c. ft.	9,384 & 14,260 c. ft.	14,015 & 15,413 c. ft.	15,15,667	14,015 & 15,413 c. ft.	15,15,667

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	576	1,176	1,752
14*a*. Empty boats and steamers No.	645	117	762
15. Total number of boats plying passenger No.	816	858	1,674
15*a*. Ditto empty boats „	39	22	61
16. Total registered tonnage, cargo Tons	16,071	26,291·5	42,362·5
17. Total registered tonnage, passenger Tons	297	300	597
18. Ton-mileage	.....	.....	.....
19. Estimated value of cargo Rs.	6,78,561	12,36,586	19,15,147
20. Number of passengers No.	790	1,125	1,915
21. Rafts, bamboos C. ft.	143	1,600	1,743
22. Do., bullahs „	825	32,848	33,673
23. Estimated value of rafts Rs.	1,249	35,731	36,980
24. Tollage on boats „	3,343-6-0	6,219-14-6	9,563-4-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	6-6-0	280-5-0	286-11-0
27. Total tollage on boats per ton-mile* ...	.....	.....	.....
28. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-12-11

	Rs. A.
Total tollage of month—24+25+26 ...	9,849 15
Total tollage of same month last year ...	8,285 5

Memorandum of Tollage.

	Rs. A.
1. Balance not recovered on the 1st of the month ...	277 8
2. Tollage per month ...	9,849 15
3. Total ...	10,127 8
4. Amount paid into treasury during the month ...	9,621 15
5. Balance due at the end of the month ...	505 8

* Boats in these rivers do not pay per mile.

Abstract for the month of June 1890 *as compared with the corresponding month of the previous year.*

	1890-91.		1889-90.	
	During the month.	To end of the month.	During the month.	To end of the mo
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A.
Tollage	9,849 15 6	22,791 7 6	8,285 5 9	20,775 14

CALCUTTA,
The 9th September 1890.

G. A. G. SHAWE,
Under-Secy to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of July 1890.

r of or	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
15	1. Grain ...	3,639	.....	3,639	3,52,375	3,639	3,52,375	
2	2. Cotton ...	16	.....	16	9,000	16	9,000	
85	3. Oilseeds ...	1,155	25	1,180	1,46,100	1,180	1,46,100	
52	4. Salt ...	482	3,698	4,180	4,09,675	4,180	4,09,675	
..	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
3	6. Metal ...	5	.....	5	3,750	5	3,750	
11	7. Building materials	3,706	90	3,796	59,719	3,796	59,719	
52	8. Miscellaneous* ...	4,793	765	5,558	6,94,717	5,558	6,94,717	
59	9. Fuel ...	7,756	941	8,697	68,149	8,697	68,149	
..	10. Timber ...	.....	.....	.....	.....	.....	.....	
2	11. Bamboos ...	800 c. ft.	.....	800 c. ft.	133	800 c. ft.	133	
79 2	12. Total ...	21,552 & 800 c. ft.	5,519	27,071 & 800 c. ft.	17,43,618	27,071 & 800 c. ft.	17,43,618	
89	13. Total of same month last year.	24,794	6,194	30,988	23,25,742	30,988	23,25,742	

* For details, see next page.

	Up.	Down.	Total.
Total number of boats plying cargo No.	1,875	304	2,179
Empty ...	1,627	273	1,900
Total number of boats plying passenger No.	476	4	480
Total registered tonnage, cargo Tons	75,305	13,179	88,484
Total registered tonnage, passenger Tons	845	7	852
Ton-mileage ...	600,300	131,790	732,090
Estimated value of cargo Rs.	12,65,411	4,78,074	17,43,485
Number of passengers No.	1,830	18	1,848
Rafts, bamboos C. ft.	800	.....	800
Do., bullahs ,,	.....	.....	.....
Estimated value of rafts Rs.	133	.....	133
Tollage on boats ,,	14,844-0-0	3,230-15-0	18,074-15-0
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts ,,	1-8-0	.....	1-8-0
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4·74
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-0

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	18,076	7	0
Total tollage of same month last year ...	19,993	5	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	911	13	0
2. Tollage per month ...	18,076	7	0
3. Total	18,988	4	0
4. Amount paid into treasury during the month ...	18,337	0	6
5. Balance due at the end of the month ...	651	3	6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
44	(*a*) Jute ...	713	.....	713	79,800	713	79,800
39	(*b*) Jaggery ...	405	.....	405	56,695	405	56,695
7	(*c*) Sugar ...	29	.....	29	7,290	29	7,290
4	(*d*) Tobacco ...	.....	34	34	6,720	34	6,720
276	(*e*) Fish ...	71	1	72	20,239	72	20,239
13	(*f*) Hides ...	32	.....	32	7,232	32	7,232
69	(*g*) Poultry ...	19	.....	19	15,588	19	15,588
60	(*h*) Hay and straw ...	428	.....	428	8,998	428	8,998
36	(*j*) Oil ...	32	625	657	92,000	657	92,000
41	(*k*) Earthenware ...	69	.....	69	968	69	968
563	(*m*) Other miscellaneous ...	2,995	105	3,100	3,99,187	3,100	3,99,187
1,152	Total Miscellaneous...	4,793	765	5,558	6,94,717	5,558	6,94,717

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of July 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,425	1. Grain ...	5,985	3	5,988	5,28,655	5,988	5,28,655	
9	2. Cotton ...	466	.....	466	27,000	466	27,000	
28	3. Oilseeds ...	409	.....	409	46,055	409	46,055	
116	4. Salt ...	798	640	1,438	1,40,962	1,438	1,40,962	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
2	6. Metal ...	.....	14	14	1,600	14	1,600	
618	7. Building materials	7,489	...	7,489	26,743	7,489	26,743	
933	8. Miscellaneous* ...	3,813	115	3,928	4,47,059	3,928	4,47,059	
132	9. Fuel ...	1,670	.....	1,670	12,859	1,670	12,859	
1 raft.	10. Timber ...	.....	28 c. ft.	28 c. ft.	70	28 c. ft.	70	
1 rafts.	11. Bamboos ...	416 c. ft.	.....	416 „	52	416 „	52	
3,263 & 1 rafts.	12. Total ...	20,630 & 416 c. ft	772 & 28 c. ft.	21,402 & 444 c. ft.	12,31,055	21,402 & 444 c. ft.	12,31,055	
2,859 & 2 rafts.	13. Total of same month last year ...	14,236 &	501 & 2,071 c. ft.	14,737 & 2,071 c. ft.	8,87,592	14,737 & 2,071 c.ft.	8,87,592	

* For details, see next page.

	Up.	Down.	Total.
4. Total number of boats plying cargo ... No.	3,168	95	3,263
4a. Empty „	975	72	1,047
5. Total number of boats plying passenger ... No.	285	4	289
6. Total registered tonnage, cargo ... Tons	58,429	2,343	60,772
7. Total registered tonnage, passenger ... Tons	631	11	642
8. Ton-mileage	431,889	37,488	469,377
9. Estimated value of cargo Rs.	11,49,416	81,517	12,30,933
10. Number of passengers No.	1,644	17	1,661
11. Rafts, bamboos C. ft.	416	.....	416
12. Do., bullahs „	...	28	28
13. Estimated value of rafts Rs.	52	70	122
14. Tollage on boats „	8,041-1-3	582-2-6	8,623-3-9
15. Compounded tollage on boats ... Rs.	.....	.....	.....
16. Tollage on rafts „	2-8-0	5-4-0	7-12-0
17. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·52
18. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	1-11-11

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	8,630	15	9
Total tollage of same month last year ...	6,846	2	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	286	5	0
2. Tollage per month ...	8,630	15	9
3. Total	8,917	4	9
4. Amount paid into treasury during the month ...	8,613	1	0
5. Balance due at the end of the month ...	304	3	9

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
9	(*a*) Jute ...	105	11	116	13,000	116	13,000	
87	(*b*) Jaggery ...	593	19	612	85,625	612	85,625	
1	(*c*) Sugar ...	4	.....	4	1,125	4	1,125	
31	(*d*) Tobacco ...	319	42	361	70,875	361	70,875	
222	(*e*) Fish ...	25	.....	25	7,192	25	7,192	
.....	(*f*) Hides ...	.....	.....	.....	.....	.....	.....	
2	(*g*) Poultry ...	1	.....	1	160	1	160	
180	(*h*) Hay and straw...	439	.....	439	7,219	439	7,219	
47	(*j*) Oil ...	435	30	465	65,125	465	65,125	
115	(*k*) Earthenware ...	142	10	152	2,134	152	2,134	
239	(*m*) Other miscellaneous.	1,750	3	1,753	1,94,604	1,753	1,94,604	
933	Total Miscellaneous...	3,813	115	3,928	4,47,059	3,928	4,47,059	

ABSTRACT FOR THE MONTH OF JULY 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1890-91.		Traffic, 1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta and Eastern Canals ...	18,076 7 0	69,994 7 9	19,993 5 0	79,115 12 6
Tolly's Nullah	8,630 15 9	32,318 7 6	6,846 2 9	26,386 13 6
Total ...	26,707 6 9	1,02,312 15 3	26,839 7 9	1,05,502 10 0

Calcutta,
The 8th September 1890.

G. A. G. Shawe,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 6th September 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 6th September 1890.			Week ending Saturday, the 7th September 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	378	92,775	1,561	269	64,675	900
Jute	115	36,950	742	19	55,680	864
Firewood	99	56,450	847	134	66,675	998
Other articles	790	1,83,030	2,315	745	1,36,650	1,984
Total ...	1,382	3,69,205	5,465	1,247	3,23,680	4,746

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of June 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	2,801	763	18,095	2,147	3,564	20,242	.....	16,678
Cotton, raw	.....	158	7	329	158	336	.....	178
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—	1,873	38	2,554	81	1,911	2,635	.....	7
a.—In bales and bundles								
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—	2,149	4,418	1,301	3,005	6,567	4,306	2,261	.....
2.—Rice	706	6,715	507	1,016	7,421	1,523	5,898	.....
5.—Others								
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	.....	381	4	397	381	401	.....	20
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—	.....	812	.....	2,026	812	2,026	.....	1,214
a.—Screwed	.....	3,600	2	3,137	3,600	3,139	461	.....
b.—Unscrewed	123	884	326	301	1,007	627	380	.....
2.—Gunny-bags and cloth								
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	791	39	731	102	830	833	.....	3
4.—Iron								
5.—Tin								
6.—Others								
Oils—	609	.....	815	21	609	836	.....	227
2.—Kerosine	358	67	227	10	425	237	188	.....
3.—Others								
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly	93	3,345	136	5,119	3,438	5,255	.....	1,817
4.—Niger								
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—	89	674	89	152	763	241	522	.....
2.—Betel-nuts	457	380	349	728	837	1,077	.....	240
3.—Others	.....	.....	16,287	2,587	26,582	18,824	7,758	.....
Railway plant and rolling-stock	6,270	7	4,777	28	6,277	4,805	1,472	.....
Salt								
Sugar—	963	334	292	1,392	1,297	1,684	.....	38
1.—Drained								
2.—Undrained								
Tea—	1	1,762	17	1,341	1,763	1,358	405	.....
1.—Foreign								
2.—Indian								
Wood—	77	41	62	69	118	131	.....	13
1.—Timber	1,560	.....	1,289	.....	1,560	1,289	271	.....
2.—Firewood	23	2,116	40	2,152	2,139	2,201	.....	6
Tobacco								
All other articles of merchandise—	3,387	3,413	3,654	2,623	6,800	6,282	518	.....
1.—Unmanufactured								
2.—Manufactured	413	.....	708	.....	413	708	.....	295
Hay, straw, and wooloo (C. & S.-E. Section) ...								
Total ...	22,743	29,947	52,228	28,768	79,272	80,996	20,184	21,868

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of June 1890.

INCREASES.

	Tons.
Rice	2,261
The increase was contributed by the Southern and Behar Sections. The Northern Section showed considerable fluctuations during the month.	
Betel-nuts	522
Principally from Bengal Central Flotilla stations carried *vid* the Bengal Central Railway.	
Railway plant, &c.	7,758
For repairs and renewals.	
Salt	1,472
The principal increase was from Chitpore.	

DECREASES.

Coal	16,678
Short outturn from collieries.	
Cotton piece-goods	724
Ordinary fluctuations.	
Oil-seeds	1,817
Bogoola, Kissengunge, Chooadanga, Damukdia, Jagati, Kooshtea, and Serajganj show considerable decreases, said to be due to the dullness of the market.	

F. P. QUINLAN,
Examiner of Accounts.

CALCUTTA, *the 2nd September* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	* 192,836	* 1,89,567 1 0	19,66,569 10	4,35,109 7 0	16,045 15 11	6,40,722 7 11	65,533½	72,776	138,30
Or per mile of railway	.....	124 4 3	.....	285 3 7	10 8 4	420 0 2	.....	.....	.....
For previous 8 weeks of half-l year	1,769,562	1,75,790 8 0	1,41,01,121 10½	31,13,989 3 0	1,41,016 5 11	50,13,396 0 11	804,170½	892,877½	1,097,04
Total for 9 weeks ...	1,962,388	19,47,357 9 0	1,60,67,690 20	35,49,098 10 0	1,57,062 5 10	56,54,118 8 10	869,703½	965,653½	1,235,35
COMPARISON.									
Total for corresponding week of previous year	226,463½	2,21,463 2 5	21,39,747 20	4,15,822 14 6	14,364 0 7	6,52,170 1 6	65,549	72,593	138,14
Per mile of railway correspond-ing week of previous year ..	.....	145 3 0	.....	273 9 3	9 11 11	427 8 2	.....	.....	.....
Total to corresponding date of previous year	2,149,468½	20,74,348 0 10	1,91,48,730 0	40,09,370 14 1	1,49,186 5 8	62,26,899 4 7	583,905	742,236	1,326,14

* The decrease in coaching traffic is partly due to a larger number of 3rd class Government passengers booked from the N.-W. Ry. *vid.* Ghâziabad to How in the corresponding period of 1889, and partly to a lesser traffic at Howrah, Allahabad, Cawnpore, and Delhi and some minor stations.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 31st August 1889.			Receipts for week ending 30th August 1890.			Total receipts from 1st April 1889 to 31st August 1889.			Total receipts from 1st April 1890 to 30th August 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,[illegible]	6,52,170	428	1,[illegible]	6,40 722	420	1,525½	1,82,53,650	544	1,525½	1,67,73,049	500	.....	14,80,6

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
traffic for the week ...	7,547	3,850 7 0	21,311 0	1,391 2 0	45 0 0	5,292 9 0	1,050	546	1,596
r mile of railway	132	67 6 9	372 30	24 5 1	0 12 7	92 8 5	.....	... ..	.....
previous 8 weeks of half-r	76,401	38,053 5 0	2,65,366 10	16,569 1 0	321 0 0	54,941 6 0	7,662	4,790	12,452
Total for 9 weeks ...	83,948	41,909 12 0	2,80,677 10	17,960 3 0	366 0 0	60,235 15 0	8,712	5,336	14,048
Comparison.									
for corresponding week previous year	9,136½	4,573 6 7	50,432 20	2,255 4 0	27 11 3	6,856 5 10	1,224	972	2,196
mile of railway correspond-week of previous year ...	160	79 15 8	881 30	39 6 10	0 7 9	119 13 10	.....	... ..	.....
to corresponding date of vious year	95,895	49,366 2 6	4,97,860 30	22,580 1 0	398 6 9	72,114 10 8	9,308	9,642	16,250

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 31st August 1889.			Receipts for week ending 30th August 1890.			Total receipts from 1st April 1889 to 31st August 1889.			Total receipts from 1st April 1890 to 30th August 1890.			Total increase in 1890.	Total decrease in 1890.
an age ed.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
½	6,850	120	57½	5,293	98	57½	1,80,111	148	57½	1,86,980	149	869	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
al traffic for the week ...	15,349	4,043 0 0	4,336 30	608 0 0	6 7 0	4,657 7 0	926	42	968
per mile of railway	.....	181 12 9	.....	27 3 9	0 4 8	209 5 2	....	.....	.....
previous 8 weeks of half-ear	138,817	33,989 10 0	35,207 0	1,212 13 0	56 7 0	35,258 14 0	7,074	384	7,458
Total for 9 weeks ...	154,166	38,034 10 0	39,543 30	1,818 13 0	62 14 0	39,916 5 0	8,000	426	8,426
Comparison.									
al for corresponding week of previous year	15,141	3,554 13 0	6,494 20	230 2 0	3 0 3	3,787 15 3	925	43	968
mile of railway correspond-ng week of previous year ...	.....	159 12 3	.....	10 5 6	0 2 2	170 3 11	.....	.....	.. ...
al to corresponding date of previous year	160,193½	38,110 3 1	44,538 10	1,543 13 0	40 6 3	30,694 6 4	8,341	327	8,668

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 31st August 1889.			Receipts for week ending 30th August 1890.			Total receipts from 1st April 1889 to 31st August 1889.			Total receipts from 1st April 1890 to 30th August 1890.			Total increase in 1890.	Total decrease in 1890.
Mean ileage rked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,788	170	22½	4,657	209	22½	1,22,332	350	22½	1,24,764	255	2,432	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 23rd August 1890, on 767 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles r		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	T
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	120,070	50,970 0 0	6,46,470 0	1,74,250 0 0	11,190 0 0	2,36,410 0 0	28,884	36,556	
Or per mile of railway	157	66 0 0	843 0	227 0 0	*1 0 0	294 0 0	.....	.....	
For previous 7 weeks of half-year	1,016,740	4,01,580 0 0	34,18,180 0	7,86,580 0 0	95,900 0 0	12,84,060 0 0	153,408	216,598	3
Total for 8 weeks ...	1,136,810	4,52,550 0 0	40,64,650 0	9,60,830 0 0	1,07,090 0 0	15,20,470 0 0	176,290	253,154	4
COMPARISON.									
Total for corresponding week of previous year	123,385	54,169 0 0	7,23,266 0	1,90,707 0 0	12,952 0 0	2,57,828 0 0	22,455	33,902	
Per mile of railway corresponding period of previous year ...	165	73 0 0	968 0	255 0 0	*1 0 0	329 0 0	.....	.....	
Total to corresponding date of previous year	1,008,930	4,42,507 0 0	43,10,621 0	9,51,504 0 0	1,07,466 0 0	15,01,531 0 0	180,047	218,580	3

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 4th August 1889.			Receipts for week ending 23rd August 1890.			Total receipts from 1st April 1889 to 24th August 1889.			Total receipts from 1st April 1890 to 23rd August 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,57,828	345	767	2,36,410	308	701	36,36,973	247	761	*38,39,085	240	2,02,112	.....

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles ru		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	To
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,890	8,060 0 0	46,620 0	4,200 0 0	60 0 0	12,320 0 0	3,610	3,064	
Or per mile of railway	191	64 0 0	373 0	34 0 0	.....	98 0 0	.....	.....	
For previous 7 weeks of half-year	189,552	62,170 0 0	2,54,380 0	17,110 0 0	1,400 0 0	80,680 0 0	24,250	13,826	3
Total for 8 weeks ...	213,442	70,230 0 0	3,01,000 0	21,310 0 0	1,460 0 0	93,000 0 0	27,860	15,890	4
COMPARISON.									
Total for corresponding week of previous year	24,266	7,728 0 0	83,855 0	8,138 0 0	48 0 0	15,914 0 0	3,582	3,056	
Per mile of railway corresponding period of previous year ...	194	62 0 0	671 0	65 0 0	.....	127 0 0	.....	.....	
Total to corresponding date of previous year	221,293	70,978 0 0	3,65,177 0	30,714 0 0	1,547 0 0	1,03,234 0 0	27,670	19,418	4

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 24th August 1889.			Receipts for week ending 23rd August 1890.			Total receipts from 1st April 1889 to 24th August 1889.			Total receipts from 1st April 1890 to 23rd August 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
125	15,914	127	125	12,320	98	125	2,53,061	108	125	*2,59,010	99	.....	24,07

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
traffic for the week	13,690	4,610 0 0	12,240 0	1,550 0 0	50 0 0	6,210 0 0	2,414	690	3,104
r mile of railway	159	54 0 0	142 0	18 0 0	.....	72 0 0	.....	.....	.....
previous 7 weeks of half-	99,030	31,930 0 0	84,370 0	7,710 0 0	970 0 0	40,610 0 0	16,242	4,632	20,874
Total for 8 weeks ...	112,720	36,540 0 0	96,610 0	9,260 0 0	1,020 0 0	46,820 0 0	18,656	5,322	23,978
Comparison.									
for corresponding week of ious year	22,335	6,767 0 0	10,916 0	1,286 0 0	55 0 0	8,108 0 0	2,599	697	3,296
ie of railway corresponding od of previous year	260	79 0 0	127 0	15 0 0	.....	94 0 0	.....	.....	.....
to corresponding date of ious year	114,516	34,373 0 0	1,08,244 0	6,447 0 0	1,564 0 0	42,384 0 0	19,633	5,746	25,379

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

ipts for week ending 24th August 1889.		Receipts for week ending 23rd August 1890.			Total receipts from 1st April 1889 to 24th August 1889.			Total receipts from 1st April 1890 to 23rd August 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
8,108	94	86	6,210	72	86	1,16,663	65	86	*1,28,502	71	11,899	.....

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
raffic for the week ...	2,800	990 0 0	1,880 0	80 0 0	10 0 0	1,080 0 0	580	170	750
mile of railway	103	36 0 0	69 0	3 0 0	1 0 0	40 0 0	.....	.....	.....
revious 7 weeks of half-	23,030	8,240 0 0	75,790 0	4,080 0 0	80 0 0	12,400 0 0	3,778	2,313	6,091
Total for 8 weeks ...	25,830	9,230 0 0	77,670 0	4,160 0 0	90 0 0	13,480 0 0	4,358	2,483	6,841
Comparison.									
for corresponding week revious year	2,520	886 0 0	15,461 0	974 0 0	203 0 0	2,153 0 0	586	340	926
le of railway correspond- period of previous year ...	93	32 0 0	568 0	36 0 0	11 0 0	79 0 0	.....	.....	.....
to corresponding date of ious year	24,146	9,018 0 0	68,331 0	4,510 0 0	467 0 0	14,015 0 0	4,538	2,709	7,247

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

ipts for week ending 24th August 1889.		Receipts for week ending 23rd August 1890.			Total receipts from 1st April 1889 to 24th August 1889.			Total receipts from 1st April 1890 to 23rd August 1890.			Total increase in 1890.	Total decrease in 1890.
Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
2,153	79	27½	1,080	40	27½	39,594	69	27½	*39,488	69	.....	106

* Audited up to week ending 21st June 1890.

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAYS.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the week ending 23rd August 1890, on 315 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles	
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.
		Rs.	Mds.	Rs.	Rs.	Rs.		
Total traffic for the week on 315 miles open	40,407	13,824	1,53,256	10,886	3,290	34,000	6,015	5,947
Or per mile of railway	128	44	487	34	4	102*	.....	.....
For previous 6 weeks of half-year	252,010	84,206	8,84,093	87,952	14,549	1,86,707	40,039	37,434
Total for 7 weeks ...	292,417	98,030	10,37,349	1,04,838	17,839	2,20,707	46,054	43,381
COMPARISON.								
Total for corresponding week of previous year on 273 miles open	36,933	11,842	2,54,027	21,896	3,672	37,410	4,589	7,454
Per mile of corresponding week of previous year	135	43	934	80	1	124*	.....	.....
Total to corresponding date of previous year	296,145	99,443	17,14,412	1,45,610	29,103	2,74,155	38,085	48,961

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

Receipts for week ending 24th August 1889.			Receipts for week ending 23rd August 1890.			Total receipts from 1st April 1889 to 24th August 1889.			Total receipts from 1st April 1890 to 23rd August 1890.			Total increase in 1890-91	To decrea 1890-
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	R
273	37,410	137	315	34,000	108	273	7,92,476	145	288·64	8,20,546	142	28,070	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.	A.	P.
Approximate earnings for week ending 16th August 1890	12,966		
Corresponding period of 1889	12,042		
Increase	924		
Receipts per mile for week ending 16th August 1890	254	3	9
Corresponding period of 1889	236	2	0
Increase	18	1	9
Receipts from 1st July to 16th August 1890	50,839		
Corresponding period of 1889	58,431		
Decrease	7,592		

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RESOLUTION ON THE ANNUAL GENERAL ADMINISTRATION REPORT OF THE BHAGULPORE DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Calcutta, the 16th September, 1890.

RESOLUTION.

READ—

The Annual General Administration Report of the Bhagulpore Division for the year 1889-90.

The divisional report is written by Mr. Quinn, who took charge of the office of Commissioner only during the last month of the year, and all the district reports, except that of Maldah, have been submitted by Collectors who were without personal experience of the facts recorded. This consideration affects specially the account given of the annual tours, which can be of much interest only when it is made by the officers who travelled. The arrangements of the Commissioner were disturbed by illness, more or less severe, and the same cause prevented the Collectors of Monghyr, Bhagulpore, and Purneah from devoting to inspection duty the full period prescribed. In Purneah the tour was insufficient owing to changes of officers during the year. The Lieutenant-Governor notices with satisfaction that the tours of the Sub-divisional Officers were in every instance complete.

Tour.

2. The outturn of the harvest of 1888-89 was seriously deficient, being on the divisional average 10½ annas for rice and 10 annas for wheat, while in the Bhagulpore district

Crops, prices, and condition of the people.

the rice harvest was 8 annas only. In the natural sequence prices were high during 1889-90, common rice averaging 15¼ seers a rupee against 17⅝ seers in the previous year. In the Soopol sub-division of Bhagulpore there was a tract classified as distressed where relief operations were undertaken in accordance with the Famine Code. Mr. Wace, Collector of Bhagulpore, observes—

"In those tracts which suffered from the drought of 1888, there was great cause for anxiety in the early part of the year in respect of both the small cultivators and the labourers. The latter were helped by the relief works which were started at various points, but things never got bad enough to drive those classes which are ordinarily above labour on to the works. All through April and May these classes were much pinched in the north-east of Soopol, the north-east and centre of Banka, and in the south-west of the Sudder sub-division. The village mahajun's heart remained as hard as the ground till the rains fell, and ryots seemed to think that Government would repeat the lavish operations of 1874. Advances were, however, kept for the tracts specified above. In Naradigur our work was well supplemented by the Maharaja of Durbhunga. As usual the mahajun came forward when the rain fell at last, and an increase in the registration returns under mortgages and sales shows that he was used more freely than usual, and I fear the year closes with the small cultivators more indebted than ever. They have, however, benefited by getting better prices for the surplus of the harvest just over than they could have expected considering its abundance. The Managers of the Durbhunga Raj and of the Srinagore estate each reports that the advances they made are being rapidly paid up."

The crop of 1889-90 was distinctly better, averaging 14⅘ annas for rice, 11⅕ annas for wheat; but prices have been even higher, perhaps because stocks had been depleted, and the harvest, though tolerable, was not sufficient to replenish them. In Maldah wages of unskilled labour are reported to have risen during the last two years with the price of food, being 3 to 4 annas a day against 2 to 3 annas in 1887-88, and a similar tendency is observed in the district of Purneah. In Monghyr, Bhagulpore, and the Sonthal Pergunnahs no change has been observed in the former rate of two annas a day, as to which the Commissioner, moreover, observes that he does not believe the ordinary agricultural labourers are so highly paid in the interior of the district. Mr. Quinn states that "it may safely be said that the general condition of the people affords no ground for despondency, and that they were distinctly better off at the close than at the beginning of the year. The picture of the Sonthal Pergunnahs, as drawn by the Deputy Commissioner, is decidedly cheerful." It is probable that the ryots have derived advantage from the high price of rice during the year, their harvests not being deficient, though some portion of the surplus must have gone to replenish stocks and pay debts contracted during the bad season of 1888-89. The labourers north of the Ganges have received full compensation for the enhancement in the cost of living by a rise in wages, and the fact is one of the most assuring observed in recent years. South of the Ganges, in so far as they are paid in money, the working classes must have suffered.

Public health.

3. In the districts south of the Ganges there was a considerable increase in the number of registered deaths, which were 63,308 in Monghyr against 53,213 in the previous year, 52,214 in Bhagulpore against 48,239, and 28,530 in the Sonthal Pergunnahs against 21,140. The cause of the variation is not explained, but it seems that the year 1888-89 had been unusually healthy, and the high price of provisions must have affected unfavourably the condition of the poorest class in 1889-90. In the districts north of the Ganges, where there is less poverty, the death-rate did not increase. Of Purneah the Commissioner writes—

"The chief feature as regards the health of this district was the great epidemic of cholera which, spreading from the Karagola fair in February 1889, in which month only 125 deaths were recorded, caused 6,198 deaths in March and reached its maximum in the appalling total of 10,232 deaths in April, the first month of the official year under report. The epidemic came to an end in May, in which month 625 deaths were recorded. Two special Civil Hospital Assistants were deputed to the Arrareah sub-division, and cholera medicines were given away freely by the District Board. The total number of deaths from cholera registered during the official year was 12,690 against 883 in the previous year. Deaths from fever amounted to 36,231 against 40,609 in the preceding year. There was practically no small-pox, a result attributed by the Civil Surgeon to the efficiency of the Vaccination Department. The total number of deaths registered in the district during the year was 49,418 against 41,661 in the preceding year. Speaking generally, the health of the district was, except for the cholera epidemic, better than usual. The heavy rain and floods appear to have lessened the tendency to malarious fever."

The Lieutenant Governor notices with pleasure the statement that vaccination has been fairly maintained throughout the Division, and there was no serious outbreak of small-pox, though in some districts the deaths from this cause were more numerous than in the preceding year.

Manufacture and trade.

4. The statistics of manufactures appended to the report are valuable as a beginning, but cannot be relied upon in every case. It is, for instance, impossible to believe that the value of indigo produced in Bhagulpore, returned at over eleven lakhs in 1888-89, had declined to little more than half a lakh in 1889-90. In regard to trade, the increased importation of food and the diminished importation of piece-goods are explained by the failure in the crops of the previous year. There was a marked falling off in the export of piece-goods to Nepal, attributed to the existence of an accumulated stock in that country. The Commissioner observes—

"The opening of the part of the Purneah Section of the Assam-Behar State Railway from Kusba to Forbesgunge during the year has considerably changed the trade routes of the western and northern parts of the Arrareah and Sudder sub-divisions. Produce is now brought from Nepal to Forbesgunge, and thence taken to the Manihari Ghât, where it is shipped and carried westwards by river to Revilgunge. The Kusi boat trade is being abandoned in favour of the railway."

In Purneah the Collector mentions as a new feature in the trade of the district that in Kishengunge the people are beginning to form joint stock companies, and are gradually superseding the Bengali merchants who used to monopolise the trade at that place.

Justice and Police.

5. The Commissioner reports favourably of the working of the magistracy, and in particular of the Honorary Magistrates and Benches. Progress was made in securing the regular payment of chowkidars and their attendance at the police-stations. On the other hand the police are said to have done well only in the district of Maldah, and there was an increase in crime, the total number of cognizable cases being 15,864 against 14,507 in the previous year; of non-cognizable complaints 11,395 against 10,905. This is but partly explained by the large number of prosecutions under Municipal and special Acts.

Land and land revenue administration.

6. The collections on the large Government estate of Damin-i-Koh in the Sonthal Pergunnahs were satisfactory, as with a rent roll of Rs. 1,69,497 there were no remissions and a balance uncollected of only Rs. 832. But in the division generally the arrears at the end of the year were large, amounting to 6·2 per cent. of the land revenue demand, and it is remarkable that even on permanently-settled estates the outstandings were considerable, being 5 per cent of the demand. More than a tenth of the estates defaulted during the year, and 152 were actually sold. In the face of these results, it is not understood how the Commissioner comes to consider that the present system of working the Sale Laws in Bhagulpore Division, which apparently consists in treating the day of auction as the last day for payment, has secured the revenue without hardship to individuals. It is not, however, desirable to make any great change by executive orders at present, as the law on the subject will probably be recast at no distant date. The report does not state what progress has been made in the large settlements of private estates by public authority which have been in progress during the year in Bhagulpore, Monghyr, Purneah, and the Sonthal Pergunnahs, though they constituted the most novel and not least important of the proceedings taken by Government in connexion with agrarian matters.

Education.

7. The Lieutenant-Governor notices with satisfaction an increase in the number of schools from 4,785 to 5,293, and of pupils from 88,473 to 93,947. This extends to institutions of all classes except those entered as "middle vernacular." It is specially observed that primary education has been a distinct advance both among boys and girls, and that candidates from the Division did well at the Entrance examination of the Calcutta University.

Local Self-Government institutions.

8. The Commissioner reports that local bodies appear to have on the whole worked fairly well during the year, though the record is not entirely satisfactory. The Lieutenant-Governor was very favourably impressed by the readiness with which the Bhagulpore District Board co-operated in the work of relieving distress.

Zemindary dák.

9. The rate at which this contribution is levied was changed during the year in all districts, being lowered in two and raised in three. Zemindars have recently objected to such annual alterations as making the incidence of the change uncertain, and changes should be avoided when this can be conveniently arranged. The Lieutenant-Governor would indeed be glad to meet a wish, once expressed by the head of the Postal Department, to commute this fluctuating impost for a fixed demand, settled in perpetuity, and a proposal for commutation has also been put forward on the part of the zemindars, though on pecuniary terms, which are not admissible.

Conduct of zemindars.

10. Favourable mention is made of the Maharajah of Durbhanga, whose estates extend into Bhagulpore, of Maharajah Taruk Nath Ghose, and of Mr. Grant, in the Sonthal Pergunnahs, for liberal management of their property.

Conduct of Public officers.

11. The thanks of the Lieutenant-Governor are given to Mr. Stevens for efficient management of the division during the greater portion of the year. His successor, Mr. Quinn, has also given indications of administrative ability. The report bears witness to the many excellent qualities of the late Mr. Coxhead, whose premature death Sir Steuart Bayley has had to deplore since the close of the year. Mr. Wace's excellent work in connexion with the scarcity in his district attracted the special notice of the Lieutenant-Governor, and Mr. W. C. Macpherson is stated to have thrown himself with great effect into the task of improving the administration of his district. Among junior members of the Civil Service, Mr. Luson is noticed for the thoroughness with which he dealt with important business connected with Wards' estates, Mr. Monahan and Mr. Streatfeild for general efficiency. Several Deputy Collectors have been favourably mentioned, among whom may be noted Baboo Soorjo Coomar Sen.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE ANNUAL REPORT OF THE GOVERNMENT CINCHONA PLANTATION AND CINCHONA FACTORY IN BENGAL FOR THE YEAR 1889-90.

FINANCIAL DEPARTMENT—MISCELLANEOUS.

Dated Calcutta, the 7th September 1890.

RESOLUTION.

READ—

The Annual Report of the Government Cinchona Plantation and Cinchona Factory in Bengal for the year 1889-90.

At the close of the year the plantation consisted of 4,682,401 trees of various ages and of a nursery stock containing 264,000 seedlings. The crop collected amounted to 304,705 pounds against 373,100 pounds in 1888-89. It was composed of 140,310 pounds of red or *succirubra* bark, 131,055 of Ledger's *calisaya*, 5,310 of *calisaya verde* and *morada*, and 28,030 of hybrid bark.

2. The outturn of the factory, which is regulated by the demand, was 1,833 pounds of sulphate of quinine and 6,578 pounds of febrifuge. The entire quantity of the quinine and a greater portion of the febrifuge were manufactured by the new fusel oil process which has now entirely taken the place of the old acid and alkali method of manufacture. The quinine is of excellent appearance, and in purity compares favourably with most of the brands of European

manufacture. The issues from the factory rose from 7,489 pounds in 1888-89 to 7,680 pounds in 1889-90, as will be seen from the following table :—

	1889-90.		1888-89.	
	lb	oz.	lb	oz.
To Medical Depôt, Calcutta ...	2,197	0	2,140	0
Ditto, Bombay ...	2,224	0	1,250	0
Ditto, Madras ...	.....		1,300	0
To Inspector-General of Civil Hospitals, Bengal	352	8	425	0
To Inspector-General of Jails ...	149	9	121	12
Sold to Government officers and to the public	2,756	0	2,251	4
Given as samples	1	0	1	4
Total ...	7,680	1	7,489	4

3. The revenue derived from the sale of sulphate of quinine, cinchona and crystalline febrifuge, cinchona bark and other products of the plantation amounted to Rs. 1,13,693-12-6 in 1889-90, against Rs. 1,29,160-3 in the previous year, as shown below—

	1889-90.			1888-89.		
	Rs.	A.	P.	Rs.	A.	P.
By sale of febrifuge, sulphate of quinine and bark to the public	43,112	13	0	37,706	0	0
By credit from the Medical Depôts	63,374	11	6	82,322	3	0
By credit from the Inspector-General of Civil Hospitals, Bengal ...	5,056	2	0	7,059	0	0
By credit from the Inspector-General of Jails, Bengal ...	2,150	2	0	2,073	0	0
Total ...	1,13,693	12	6	1,29,160	3	0

The net profit on the working of the cinchona estate amounted to Rs. 18,967-9-10 in 1889-90 against Rs. 27,844 in 1888-89, and is not unsatisfactory when the depressed condition of the cinchona industry is taken into consideration. It is understood that the exportation from Ceylon has at last begun to fall off, and in this case quinine will probably soon rise in price, and the demand for cinchona febrifuge will also increase.

4. Dr. King gives a favourable report of the good work done by the subordinate officers of the plantation and factory, and the Lieutenant-Governor is glad to again acknowledge the efficient services of Dr. King and of Mr. Gammie in their administration of the Department.

ORDER.—Ordered that a copy of this Resolution and of the Report referred to be forwarded to the Government of India in the Home Department, to the Political (Medical) Department of this Government, to the Superintendent of the Government Cinchona Plantation, to the Government of Madras, and to the Inspector-General of Civil Hospitals, Bengal, for information.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Govt. of Bengal.

ANNUAL REPORT ON THE GOVERNMENT CINCHONA PLANTATION AND FACTORY IN BENGAL FOR THE YEAR 1889-90.

No. 360, dated Royal Botanic Garden, Seebpore, near Calcutta, the 14th July 1890.

From—Brigade-Surgeon George King, M.B., Superintendent, Royal Botanic Garden, Calcutta, and Cinchona Cultivation in Bengal, and Officiating Government Quinologist,

To—The Secretary to the Government of Bengal, Financial Department.

I have the honour to submit herewith the annual report of the Cinchona Plantations and Factory for the year 1889-90.

Twenty-eighth Annual Report of the Government Cinchona Plantation and Factory in British Sikkim for the year 1889-90, *by* Brigade-Surgeon G. King, M.B., LL.D., F.R.S., C.I.E., *Superintendent of the Royal Botanic Garden, Calcutta, and of Cinchona Cultivation in Bengal, and Officiating Government Quinologist.*

1. The weather during the year presented no unusual features. The plantation suffered neither from excessive rain nor from drought, nor was any great mischief done by hail or landslips; and the growth of the plants both in the nurseries and in the open was on the whole favourable.

2. *Changes in the Plantation.*—The total number of trees uprooted for their bark during the year, or which died from natural causes, was 373,690. Of this total, 270,000 were red barks, the rest being either yellow barks or hybrids. Many of the red barks were small stunted trees which yielded very little bark. On the other hand, 245,860 new trees—exclusively yellow barks and hybrids—were planted. The renewals were thus less numerous than the losses, a circumstance which is due to the enormous destruction of nursery stock by the violent hailstorm which passed over the plantation in March 1889, and which was alluded to in my last annual report. A reference to the table which forms Appendix C of this report shows that at the end of the year under review the plantation consisted of 4,682,401 trees of various ages, and of a nursery stock amounting to 264,000 seedlings. Of the trees in the open, there are now only 1,612,000 red barks, and amongst the nursery stock there are none of this sort. the intention being gradually to convert the plantation into one exclusively of quinine-yielding species.

3. *The year's crop.*—The crop collected during the year amounted to 304,705 pounds. This total is composed of 140,310 pounds of red or succirubra bark, 131,055 of Ledger's calisaya, 5,310 of calisaya verde and morada, and 28,030 of hybrid bark. The proportion contributed by the plantations is as follows: the old plantation (Rungbee and Mungpoo) yielded 222,025 pounds, Sittong 50,180 pounds, and the young plantation at Rungjung in the Bhootan Hills 32,500 pounds. With the exception of 310 pounds sold and issued on indents to jails, the whole crop was as usual made over to the factory.

4. *Expenditure on the plantation for the year.*—The total budget allotment for the plantation was originally Rs. 85,795; but as the year advanced it was found necessary to apply for a transfer of Rs. 10,000 from the plantation to the factory budget. On the grant, thus reduced to Rs. 75,795, there was a saving of Rs. 6,598-6, the net expenditure for the year having amounted to only Rs. 69,196-10. The details of the expenditure are as follows:—

	Rs.	A.	P.
European establishment (including all salaries except that of Dr. King, Superintendent of the Botanic Garden, Calcutta), cooly labour and office establishment ...	62,363	8	8
Keep of animals for plantations	900	0	0
Contingencies, &c., including service postage stamps ...	4,635	5	0
Travelling allowance	458	12	0
Stores from England	839	0	4
Total ...	69,196	10	0

Against this expenditure there is to be put the crop of 304,705 pounds of dry bark, the net cost of each pound of which was therefore 3 annas 7·602 pies.

5. *Factory.*—The original budget allotment for the factory was Rs. 32,515, which sum was subsequently increased by a transfer from the plantation budget to Rs. 42,515. The expenditure, however, exceeded this amount by Rs. 571-13. A large part of the factory expenditure was on machinery for working the new

fusel oil process, and this ought really to be debited to capital. But the factory has no capital account, all charges connected with it having hitherto been debited to current working expenses. And I have not thought it necessary on the present occasion to deviate from this practice, especially as such heavy expenditure on plant is not likely to be necessary for some time. To the cash expenditure of Rs. 43,086-13 there has to be added the cost of the bark used and of stores received from England. These items are as follows:—

	Rs.	A.	P.
Factory expenditure on chemicals, oil, labour and machinery	38,845	6	11
Stores from England	4,241	6	1
Cost of bark used, 137,898 pounds of crop of 1888-89 at 3 annas 1·333 pies per pound ...	26,813	4	3
100,022 pounds of crop of 1889-90 at 3 annas 7·602 pies per pound	22.714	5	9
Total ...	92,614	7	0

The products manufactured for this sum consisted of 1,833⅛ pounds of sulphate of quinine at a net cost of Rs. 11-14-3·026 per pound, and of 6,578 pounds of febrifuge at a net cost of Rs. 10-12-3·026 per pound. In short the quinine cost Rs. 11⅞ and the febrifuge Rs. 10¾ per pound.

6. *The fusel oil process of manufacture.*—The whole of the quinine and the greater part of the febrifuge were manufactured by the new fusel oil process; and, as the arrangements for working this process were quite completed during the year, the old acid and alkali method of manufacture has now been definitively abandoned. An additional year's experience of the fusel oil process confirms my previously expressed opinion of its complete success. The quinine turned out by it is of excellent appearance and great purity, in the latter respect comparing favourably with most of the brands of the drug of European manufacture.

7. *Sales of febrifuge and quinine during the year.*—The total issues for the year were 6,393¾ pounds of febrifuge, 1,252 pounds of quinine, and 34 pounds of crystalline febrifuge. These were distributed as follows:—

Details of the distribution of Cinchona Febrifuge, Crystalline Febrifuge, and Sulphate of Quinine during the financial year 1889-90.

	lbs.	oz.
To Medical Depôt, Calcutta—		
Cinchona febrifuge	1,997	0
Sulphate of quinine	200	0
To Medical Depôt, Bombay—		
Cinchona febrifuge	1,750	0
Sulphate of quinine	474	0
To Inspector-General of Civil Hospitals, Bengal (for district medical officers of Bengal)—		
Cinchona febrifuge	333	12
Crystalline „	18	12
To Inspector-General of Jails, Bengal (for jails and lock-ups in Bengal)—		
Cinchona febrifuge	141	12
Crystalline „	7	12
Sulphate of quinine	0	1
Sold to Government officers and to the general public—		
Cinchona febrifuge	2,170	4
Crystalline „	7	8
Sold to Government officers—		
Sulphate of quinine	578	4
Given as samples—		
Cinchona febrifuge	1	0
Total ...	7,680	1

This is better by 191 pounds than the issues of the previous year, which amounted to only 7,489¼ pounds.

8. *Stock account.*—The bark in stock at the end of the year amounted to 426,275 pounds. Part of this bark (221,892 pounds) is of the crop of 1888-89, which cost 3 annas 1·333 pies per pound, and the remainder (204,383 pounds) is of the crop of 1889-90, which cost 3 annas 7·602 pies per pound. To save trouble in future calculations, I have taken the whole at its average cost, viz.

3 annas 4·338 pies per pound. The manufactured products have been taken at their actual cost, and the chemicals and other stores rather below their estimated value. As compared with that of 1888-89, the stock of last year stands thus:—

Stock on 31st March 1889.

	Rs.	A.	P.
Chemicals and stores ...	10,000	0	0
Cinchona febrifuge, 1,375 pounds, at Rs. 12-10-8·08 per pound ...	17,417	3	10
Crystalline febrifuge, 54 pounds, at Rs. 16-6-2 per pound ...	884	13	0
Sulphate of quinine, 982 pounds, at Rs. 12-10-8·08 per pound ...	12,439	1	2
Bark, 359,790 pounds, at 3 annas 1·333 pies per pound ...	69,958	8	8
	1,10,699	10	8
Increase in value ...	17,557	4	4
Total ...	1,28,256	15	0

Stock on 31st March 1890.

	Rs.	A.	P.
Chemicals and stores ...	3,000	0	0
Cinchona febrifuge, 1,559½ pounds, at Rs. 10-12-3·026 per pound ...	16,786	13	2
Crystalline febrifuge, 20 pounds, at Rs. 16-6-2 per pound ...	327	11	4
Sulphate of quinine, 1,562 pounds 13 ounces, at Rs. 11-14-3·026 per pound	18,583	0	5
Bark, 426,275 pounds, at an average of 3 annas 4·338 pies per pound	89,559	6	1
Total ...	1,28,256	15	0

There has thus been a considerable increase in the value of the stock. In other words the off-take of our manufacture has not kept pace with our production, nor has it increased in proportion to the reduction in the price of febrifuge from Rs. 16-8 to Rs. 14 and of quinine from Rs. 20 to Rs. 17 per pound. Although this result is to be regretted, it is not to be wondered at, since the price of all cinchona products in the open market still continues very low, and quinine is obtainable in the bazars at an unprecedentedly cheap rate, much of it, however, being of inferior quality.

9. *Financial result of the year's working.*—The figures already given afford the means of forming a balance sheet showing the exact financial result of the year's working. This is as follows:—

BALANCE SHEET.

Dr.	Rs.	A.	P.	Rs.	A.	P.	Cr.
To value of stock on 31st March 1889	1,10,699	10	8				By value of stock on 31st March 1890 ... ... 1,28,256 15 0
To cash received from the treasury during 1889-90 for expenditure on the plantations, viz. Rungbee, Mungpoo, Sittong, and Rungjung	68,357	9	8				By cash receipts from sale of sulphate of quinine, cinchona and crystalline febrifuge and cinchona bark, &c. ... 43,112 13 0
To stores from England for plantations	839	0	4				By credit from Medical Depôts for cinchona febrifuge, viz.—
To cash received from treasury during 1889-90 for expenditure on factory	38,845	6	11				Rs. A. P.
To stores from England for factory	4,241	6	1				Calcutta ... 27,958 0 0
Profit on the year's working, viz.—							Bombay ... 24,500 0 0
Rs. A. P.							52,458 0 0
Cash ... 1,410 6 0							By credit from Medical Depôts for sulphate of quinine, viz.—
Increase of stock of quinine, febrifuge and bark ... 17,557 3 10							Rs. A. P.
	18,967	9	10				Calcutta ... 3,103 2 0
							Bombay ... 7,813 9 6
							10,916 11 6
							By credit from Inspector-General of Civil Hospitals, Bengal, for cinchona and crystalline febrifuge supplied to medical officers of Bengal, viz.—
							For cinchona febrifuge ... Rs. 4,680 A. 2 P. 0
							For crystalline febrifuge ... 376 0 0
							5,056 2 0
							By credit from Inspector-General of Jails, Bengal, for cinchona and crystalline febrifuge and sulphate of quinine supplied to jails and lock-ups in Bengal, viz.—
							For cinchona febrifuge ... Rs. 1,986 A. 10 P. 0
							For crystalline febrifuge ... 157 0 0
							For sulphate of quinine ... 1 8 0
							2,145 2 0
							By credit from Inspector-General of Jails, Bengal, for cinchona bark supplied to the medical officer of the Alipore Jail Hospital 5 0 0
Total ...	2,41,950	11	6				Total ... 2,41,950 11 6

This shows a balance of profit of Rs. 18,967-9-10, which, in the present depressed condition of the cinchona industry generally, may, I trust, be accepted as satisfactory. This profit, as will be observed, is composed largely of increase in the amount of the stock of quinine, febrifuge, and bark in hand at the end of the year, as compared with the value of the stock at its commencement. It would have been more satisfactory had the cash realizations been greater, but in the present depressed condition of the industry it is a matter for congratulation when a cinchona estate is worked without actual loss. As was explained in last year's annual report, the extraordinary fall in the price of quinine during the past few years has been due to excessive exportation of cinchona bark from Ceylon. Statistics, however, show that this exportation is at last beginning to fall off. Before very long it is therefore probable that quinine will rise in price and that the demand for cinchona febrifuge will again increase. It is of course only from the narrow point of view of a cinchona grower that an increase in the price of so useful a medicine can be considered as desirable. From the point of view of Government, it would be a misfortune, since it would increase to the people the price of the best medicine for fever.

10. The crop of bark for the current year will as usual be taken with reference to the requirements of the factory.

11. The sum of Rs. 2,377-9 received for grazing and land rent was paid into the Darjeeling cutchery, no credit being taken for it in the above accounts.

12. The fuel plantation was thinned for the first time this year, and a large quantity of poles, more or less useful for building as well as for fuel, was taken out. The growth of this plantation continues to be most satisfactory.

13. Mr. J. A. Gammie, the Deputy Superintendent of the plantation and factory, was absent on privilege leave for three months; but during the rest of the year he was in executive charge at Mungpoo. His services require no recommendation from me. Mr. R. Pantling, the senior assistant, went on furlough towards the end of the year, and Mr. G. Gammie was appointed to officiate for him. Messrs. Pantling, Parkes, G. Gammie and Hartless have all worked well; as also have the head writer, Baboo Gopal Chandra Datta, and the second clerk, Baboo Davendra Nath Basu.

RESOLUTION ON THE REPORT OF THE BOARD OF REVENUE ON THE ADMINISTRATION OF THE SALT DEPARTMENT FOR THE YEAR 1889-90.

FINANCIAL DEPARTMENT—SALT.

Calcutta, the 9th September 1890.

RESOLUTION.

READ—

The report of the Board of Revenue on the administration of the Salt Department for the year 1889-90.

The following statement shows the receipts and charges of the Department since 1884-85 :—

HEADS.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.	Increase in 1889-90 compared with 1888-89.	Decrease in 1889-90 compared with 1888-89.
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Imperial—								
Import duty on salt	1,91,90,460	1,80,36,071	1,94,85,100	1,85,30,950	2,27,28,686	2,25,88,826	... ..	1,44,860
Excise ditto	10,11,999	9,62,137	4,71,315	3,82,854	3,22,087	1,96,605	.....	1,25,482
Total ...	2,02,02,459	1,89,98,208	1,99,56,415	1,89,13,804	2,30,50,773	2,27,80,431	.....	2,70,342
Provincial—								
Rent of warehouses	85,245	65,192	68,445	45,726	53,998	90,100	36,102	.....
Miscellaneous	39,311	36,283	33,675	32,482	34,197	34,463	266	.....
Total ...	1,24,556	1,01,475	1,02,120	78,208	88,195	1,24,563	36,368	.....
Total Receipts ..	2,03,27,015	1,90,99,683	2,00,58,535	1,89,92,012	2,31,38,968	2,29,04,994	....	2,33,974
CHARGES.								
Imperial—								
Salaries, establishments, and contingencies.	5,324	6,253	.....	... ..	.....	.....	.....	.....
Compensation paid under convention with the French Government.	20,000	20,000	20,000	20,000	20,000	20,000	.....	.....
Salt preventive establishment in Orissa and Naraingunge.	13,109	12,302	217	.....	.....	.....	.....	.....
Refunds of customs duty on salt	2,11,905	1,85,726	2,05,369	2,02,044	2,26,413	2,36,135	9,722	.....
Total ...	2,50,338	2,24,341	2,25,586	2,22,044	2,46,413	2,56,135	9,722	.....
Provincial—								
Salaries, establishments, and contingencies.	21,048	18,130	11,005	12,368	21,223	46,251	25,028	.....
Refunds other than customs and excise duty.	65	59	.....	.....	.....	.....	.....	.....
Total ...	21,113	18,189	11,005	12,368	21,223	46,251	25,028	.....
Total Charges ...	2,71,451	2,42,530	2,36,591	2,34,412	2,67,636	3,02,386	34,750	.....
Approximate net revenue ...	2,00,55,564	1,88,57,153	1,98,21,944	1,87,57,600	2,28,71,332	2,26,02,608	....	2,68,724

The results of the year under review, as compared with the previous year, show a decrease of Rs. 2,33,974 in receipts and an increase of Rs. 34,750 in charges. The decrease in the revenue from import duty is attributed to smaller clearances of duty-paying salt, while the manufacture of excise salt in Orissa has not recovered from the change of system under which the administration has been transferred from the Government of Bengal to that of Madras. On the other hand, it is to be remembered that large quantities of Ganjam salt, on which the duty is paid in Madras, are now consumed in Orissa. The increase in the receipts from "Rent of warehouses" is due to increased bonding operations, induced partly by the larger steamer traffic and partly by the reduction of the rate of rent from Rs. 5 to Rs. 3 per 1,000 maunds. The rent was reduced in April 1887, and although in the first instance it was followed by a reduction in receipts, the result in the long run has fully justified the change of policy then introduced. A further help to bonding operations will be afforded by the erection of pontoons in front of the Golahs, and the construction of a shunting line connecting them with the Howrah terminus, recently sanctioned by Government. The increase in charges is due principally to the purchase of Mr. Kilby's patent scales for weighing salt and to larger refunds of customs duty.

2. The total quantity of salt in stock at the commencement of the year was 20,46,288 maunds, comprising 18,99,649 maunds of imported salt and 1,46,639 maunds of excise salt. During the year 1,00,72,857 maunds were imported and 70,293 maunds were manufactured, against 1,04,80,285 and 2,44,512 maunds in the previous year. The falling off in imports was occasioned by smaller importations of Liverpool salt, due to the large stocks in bond, the raising of the price by the Salt Syndicate, and the growing practice of importing salt by the

Suez Canal steamers. There can be no doubt that the action of the Cheshire Salt Syndicate has acted very prejudicially to the Liverpool trade, the exports from the United Kingdom having decreased from 83 lakhs of maunds to 70 lakhs, while there has been a corresponding increase in the trade from Hamburg, amounting to 4,44,000 maunds, from the Arabian and Persian Gulfs amounting to 2,70,000 maunds, and from Aden amounting to 4,44,000 maunds. The large increase in steamer traffic is also a point deserving special consideration. Three years ago the whole of the salt imported came in sailing vessels, but during the past year 27 steamers brought 10,51,557 maunds. Mr. Armstrong, the Collector of Customs, observes that the tendency of this change in the trade is to limit the quantities imported to actual requirements.

3. The decrease in the clearances of salt from shipboard, amounting to 10,24,796 maunds in Calcutta and 1,06,748 maunds in Chittagong, has been counterbalanced by larger clearances from bond, which amounted to 32,64,318 maunds, against 23,85,541 maunds in 1888-89. The consumption in saliferous districts, other than Orissa, showed a decrease of 33,880 maunds as compared with the previous year. The decrease chiefly occurred in Midnapore, and to a lesser extent in the 24-Pergunnahs, and is attributed to the prevailing scarcity. The proportion of seizures to unsuccessful searches (1,476 to 363) was not so good as last year, but the number of seizures shows a very large increase. In the two districts of Midnapore and Backergunge the number of unsuccessful searches exceeded that of seizures. This result is far from satisfactory, and the Lieutenant-Governor is glad to see that it has attracted the careful attention of the Board. The Board have rightly understood that the orders of Government, conveyed in last year's Resolution, that "the police, instead of hunting for trivial cases of illicit manufacture, should rather direct their attention to cases of illicit manufacture for sale," were not at all intended to be read as a permission to make salt for home consumption. Any manufacture of salt without a license duly obtained is illegal. But the policy of Government in regard to salt has always been a liberal one. While, on the one hand, there can be little doubt that the salt revenue is continually defrauded by persons who carry on illicit manufacture with comparative impunity, and it is essential that the police should not relax their exertions to put a stop to systematic manufacture with a view to sale, it must be remembered that the poorer country folk have from time immemorial been in the habit of manufacturing salt, the materials of which lie at their very doors, for their own use, and that the rigorous prosecution of the law in prevention of this practice may very easily create suffering and distress among them, in comparison with which the loss of revenue incurred is but a trifling matter. The question is one of acknowledged difficulty, and much must depend on the discretion and capacity of individual officers in dealing with the penal provisions of the law.

4. The despatches of salt into the interior by the different water routes and railways, as shown in the following table, show a decrease of 2,99,263 maunds:—

Year.	Vid Balli Khall.	Vid Sankrail.	Vid Gewankhally.	Vid Kidderpore.	Vid Balliaghatta.	Total carried by water.	By the East Indian Railway.	By the Eastern Bengal and Calcutta and South-Eastern Railway or vid Chitpore.	Vid Ruthtolla Ghat.	Total carried by rail.	Grand Total.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
1888-89	10,81,504	6,49,876	2,79,496	3,62,140	16,66,266	40,38,084	35,60,027	10,23,303	17,625	45,96,955	86,35,039
1889-90	10,26,288	5,32,651	2,45,352	2,97,220	17,00,557	38,02,068	35,42,162	9,82,780	9,666	45,34,608	83,36,976
Increase	.....	.....	.....	.....	34,291	.....	.....	.....	.....	.....	.....
Decrease	55,216	1,16,925	34,146	64,920	...	2,30,916	13,865	40,523	7,959	62,347	2,99,263

There was some discussion during the past year regarding the abolition or modification of the present rowannah system, but it has eventually been decided that no alteration in it is at present necessary.

5. The proposal to extend the Indian Salt Act to the whole of the Province, to which reference was made in last year's Resolution, has been abandoned; but the Act has been extended to the town of Calcutta, as well as the area included in a radius of two miles from its limits, and the control of the saltpetre refineries within this locality has been entrusted to the Commissioner of Northern Indian Salt Revenue.

6. Mr. Kilby's scales for the weighment of salt have now entirely superseded the old scales in the port of Calcutta, and the proposal to introduce them in the Chittagong port has recently been sanctioned by Government. The Lieutenant-Governor is glad again to observe that Mr. Kilby, the Superintendent of the Sulkea Salt Golahs, has continued to discharge his duties in a very satisfactory manner.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

APPOINTMENT OF A COMMITTEE TO CONSIDER THE QUESTION OF THE FOUNDATION AND FUTURE MANAGEMENT OF A NEW LEPER ASYLUM FOR CALCUTTA.

MEDICAL.

Dated the 16th September 1890.

READ—

Bengal Government Resolution, dated the 29th July 1890, regarding the foundation and future management of a new Leper Asylum for Calcutta.

Letter from the President of the District Charitable Society, No. 402, dated the 5th August 1890.

Letter from the Joint Honorary Secretaries to the Prince Albert Victor Permanent Memorial Fund, dated the 12th August 1890.

Letter from the Chairman of the Corporation of Calcutta, No. 3902, dated the 1st September 1890.

In the Resolution cited in the preamble the outline of a scheme for providing Calcutta with a new, enlarged and improved Leper Asylum was indicated, and it was proposed that the whole question should be considered by a Committee consisting of the President and two members of the District Charitable Society, the Chairman and two members of the Corporation of Calcutta, Mr. W. J. Simmons on the part of the Public Health Society, Calcutta, a representative of the Prince Albert Victor Permanent Memorial Fund, and two medical officers to be selected by Government. It was added that the Lieutenant-Governor might appoint additional members should it be found necessary to do so. The Resolution was duly communicated to the Corporation and other bodies named therein, and they were asked to nominate their representatives for appointment to the Committee. Their replies have now been received, and the Lieutenant-Governor is pleased to sanction the formation of a Committee composed of the following gentlemen :—

President :

1. The Hon'ble Justice H. T. Prinsep, President of the District Charitable Society.

Members :

2. Mr. J. Lambert, C.I.E.
3. Mr. H. Lee, C.S., Chairman of the Corporation of Calcutta.
4. Mr. W. J. Simmons, Representative of the Public Health Society, Calcutta.
5. Nawab Abdul Luteef Bahadur, C.I.E., a representative of the District Charitable Society.
6. Babu Issur Chunder Mitter, a representative of the District Charitable Society.
7. Babu Surendra Nath Banerji, a representative of the Corporation of Calcutta.
8. Mr. W. M. Osmond, a representative of the Corporation of Calcutta.
9. Babu Amrita Nath Mitter, Representative of the Subscribers to the Permanent Memorial Fund.
10. Surgeon-Major W. H. Gregg, Sanitary Commissioner for Bengal.
11. Dr. W. J. Simpson, Health Officer for the Town of Calcutta.

Secretary :

Mr. Patrick McGuire, Secretary, District Charitable Society.

The Committee are requested to take into consideration the suggestions contained in the concluding paragraph of the Government Resolution of the 29th July last, and to favour the Lieutenant-Governor with their views in connection with the establishment and management of the proposed institution.

ORDER.—Ordered that a copy of this Resolution be communicated to each of the members of the Committee.

Ordered also that the Resolution be published in the *Calcutta Gazette.*

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secretary to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 13th September, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	Burdwan Divn.		
1	**Burdwan** Sept. 13, '90	Nil	Weather—hot and cloudy. Prospects of crops good, but more rain wanted. Prices of common rice :—
	Culna ...	0·92	
	Ranigunge ...	0·83	
			Srs.
			Burdwan ... ... 15½ }
			Culna ... ... 15 } per rupee.
			Ranigunge ... ... 16 }
2	**Bankoora** „ 13, '90	0·90	Weather—fine and warm. More rain wanted everywhere. *Amun* plants on high lands suffering very much for want of moisture, and if it does not rain soon, they will die. *Aus* ripening. Sugarcane doing well. Common rice selling at 16½ seers per rupee at Bishenpore and 18 seers at Sudder.
3	**Birbhum** „ 13, '90	0·28	Break in the rains continues. Sky clear and weather warm. Prospects of crops so far very good. Prices of coarse rice vary from 16 to 19 seers per rupee.
	Rampore Haut ...	0·27	
4	**Midnapur** „ 13, '90	0·40	Weather—hot and dry. Rain badly wanted for rice, specially on high lands. Prices of common rice :—
			Srs.
			Sudder ... ... 16 }
			Contai ... ... 16 }
			Ghatal ... ... 17 } per rupee.
			Tumlook ... ... 16 }
5	**Hooghly** „ 13, '90	Nil	Weather—hot and sultry. Crops will do very well if rain falls soon. Want of rain mentioned in all quarters. Prices of common rice :—
	Jehanabad ...	0·22	
			Srs.
			Sudder ... ... 13½ }
			Serampore ... ... 16 } per rupee.
			Jehanabad ... ... 16 }
	Howrah „ 13, '90	0·09	Weather—hot and generally fair. *Aus* and jute crops are being reaped. More rain wanted for *amun* crop. Some local damage to paddy from high tides. Price of common rice 14 seers per rupee.
	Uluberiah ...	0·74	
	Central Districts.		
	Presidency Divn.		
6	**24-Pergns.** Sept. 16, '90	1·55	Weather—seasonable. Floods in the Bussirhat sub-division are subsiding. Harvesting of *aus* paddy and jute still going on. Transplantation of *amun* paddy nearly finished. Some injury to standing crops in thana Baduria expected from the floods. Prices stationary. Relief in the shape of rice, dál, &c., is being given to the persons in the northern part of the Bussirhat sub-division, who have suffered from the floods and are destitute of any means.
7	**Nuddea** „ 13, '90	0·08	Weather—hot. Harvesting of *aus* almost over. State of *amun* not affected by flood is good. Rivers falling gradually. Sowing of cold-weather crops commenced.
	Kushtea ...	0·16	
	Chuadanga ...	0·13	
	Ranaghat ...	3·08	
8	**Khoolna** „ 13, '90	0·38	Weather—hot with little or no rain. *Amun* has been destroyed in thana Kalaroa and in portions of Satkhira and in low lands generally in the north of the district by the flood. Reaping of *aus* going on. Prospects of *amun* in the southern thanas very good.
	Bagirhat ...	0·15	
	Satkhira ...	Nil	
9	**Jessore** „ 13, '90	0·52	Weather—hot. Flood-water subsiding everywhere. Prospects in Magura and Narail fair. Two officers have been deputed to Bongong and one to Jhenidah to make enquiries about extent of damage to crops.
	Jhenidah ...	0·07	
	Magura ...	Nil	
	Narail ...	Nil	
	Bongong ...	1·36	
10	**Moorshedabad** „ 13, '90	0·07	A break in the rains. Flood rapidly subsiding. *Kalai* being sown. Harvesting of *aus* going on. Some transplantation of *haimanti* paddy still being made. Rain wanted for *amun* paddy. Agricultural loans and charity being distributed to those in distress. Some fodder also being supplied to cattle. Coarse rice 13½ seers per rupee.
	Rajshahye Divn.		
11	**Dinagepur** „ 13, '90	2·08	There have been showers, and the weather has been cooler than in the preceding week. Prospects of crops continue favourable. Outturn of *bhadoi* and jute may still be estimated at 18 annas. Price of rice unchanged.
	Thakurgaon ...	4·03	
12	**Rajshahye** „ 13, '90	0·46	Weather—hot and cloudy. Floods subsiding. Prospects of crops fair in Nowgong and Nattore. Damage about 4 annas in Nowgong. Sudder subdivision has suffered most, but prospects as yet not unfavourable.
	Nattore ...	2·41	
	Nowgong ...	0·79	
13	**Rungpur** „ 13, '90	1·21	Rain appears to be breaking up. Heavy thunderstorms alternate with long spells of sunshine. Transplantation of *amun* rice continues. Cutting and steeping of jute progresses rapidly. Sugarcane looks well, and prospects generally excellent.
	Gaibanda ...	0·72	
	Nilphamari ...	6·0	
	Kurigram ...	3·61	
14	**Bogra** „ 13, '90	1·53	Weather—calm. Easterly wind. Outturn of jute reported to be 16 annas. Jute and *aus* still being reaped. *Amun* still being transplanted. State of *amun* and sugarcane good and promising. Common rice selling at 19 seers per rupee.
	Sherpur ...	4·48	
15	**Pubna** „ 13, '90	0·14	Weather—hot and cloudy. Floods have damaged *aus*, jute, and *amun* crops in the villages in Sujanagore and Khetupara outposts, and in parts of the Serajgunge subdivision considerably. Prices continue stationary.
16	**Darjeeling** „ 13, '90	2·74	Weather—rainy with occasional breaks. Transplantation of winter rice in Terai almost at an end. Potatoes, *chota marua*, and *bhutta* being harvested. *Bara marua*, *haimanti* paddy, and *bhadai* progressing well.
17	**Jalpigoree** „ 13, '90	7·70	Weather—days hot and cloudy; nights rainy and cool. Harvesting of jute and *aus* paddy going on rapidly. Transplantation of *haimanti* paddy nearly finished. Prospects generally good. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca Sept. 13, '90	0·39	Weather—hot and cloudy at intervals. Harvesting of jute and *aus* paddy going on. Prospect of *amun* paddy continues good. Rivers falling slowly. Common rice selling at from 11 to 14 seers per rupee.
Dacca Divn. 19	Furreedpur ,, 13, '90	0·29	Weather—seasonable. Flood has gone down, and state of crops hopeful. Outturn of *aus* about 8 annas and of jute about 10 annas. Price of rice stationary.
Dacca Divn. 20	Backergunge ...	.....	Report not received.
Dacca Divn. 21	Mymensingh ,, 13, '90	0·26	Weather—warm and cloudy with occasional showrs. Jute and *amun* plants somewhat damaged by high floods, particularly in the Tangail subdivision. Common rice sells at 13 seers 9 chittacks per rupee.
Chittagong Divn. 22	Chittagong ,, 16, '90	3·64	Weather—seasonable. Twelve annas of *aus* cut. *Amun* transplanted over about eleven annas of land. Prospects fairly good. Prices steady.
Chittagong Divn. 23	Noakholly ...	.....	Report not received.
Chittagong Divn. 24	Tipperah ,, 13, '90	0·95	Sunshine and rain at intervals. *Aus* and jute are being cut. Flood-water falling steadily.
Chittagong Divn. 25	Chittagong Hill Tracts. ...	.....	Report not received.
	Hill Tipperah ,, 12, '90	1·92	Weather—hot. Jute commenced to be cut. *Amun* and *jum* crops doing well. No change in prices.
BEHAR.			
Patna Divn. 26	Patna ,, 13, '90	0·16	Weather—very hot and sultry. Transplantation of paddy finished all over the district excepting in some places in the Behar sub-division. Reaping of *bhadoi* crops going on; outturn estimated on an average at 3 annas. Castor seed and *kulthi* are being sown. Prices of food-grains almost stationary.
	Barh ...	Nil	
	Behar ...	1·10	
	Dinapore ...	Nil	
Patna Divn. 27	Gya ,, 13, '90	Nil	Weather—hot and fair. *Bhadoi* harvest now over; outturn two annas only. Rain urgently wanted for paddy. Prices of food-grains rising daily.
Patna Divn. 28	Shahabad ,, 13, '90	1·49	Weather—very hot. Sky clear. Rain now wanted for paddy, especially in Sasseram and Bhabuah. Prices rising.
	Buxar ...	Nil	
	Bhabuah ...	Nil	
	Sasseram ...	Nil	
Patna Divn. 29	Durbhunga ,, 13, '90	Nil	Weather—hot and occasionally close. Harvesting of *bhadoi* in progress. Retransplanting of rice going on in places inundated, where possible. Crops elsewhere doing well. Prices remain stationary.
Patna Divn. 30	Mozufferpur ,, 13, '90	0·22	Weather—extremely hot. Only one shower during the week. *Bhadoi* being reaped; an average outturn of 6 annas for the whole district may be expected. The last floods from the Bagmati have done no serious damage to the rice crops in the Sitamarhi subdivision. Prospects of these crops are good everywhere, except in very low-lying localities.
	Hajipur ...	Nil	
	Sitamarhi ...	0·08	
Patna Divn. 31	Sarun ,, 13, '90	Nil	Weather—very hot and oppressive. In Sewan and Gopalgunge a little *bhadoi* is being harvested. Preparation of lands for *rubbi* beginning. Prices about stationary.
Patna Divn. 32	Chumparun ,, 13, '90	Nil	Weather—fine, but excessively hot. Harvesting of *bhadoi* rice and *makai* in progress; average outturn estimated at 5 annas. *Aghani* rice in good condition. With rain within the next fortnight or three weeks, a 16-anna crop is hoped for.
	Bettiah ...	0·49	
Bhagulpore Divn. 33	Monghyr ,, 13, '90	Nil	Weather—very hot and sultry. Standing crops doing well; but rain urgently wanted for winter rice.
	Begusarai ...	0·55	
	Jamui ...	Nil	
Bhagulpore Divn. 34	Bhagulpore ,, 13, '90	0·09	Weather—hot with strong sun. Break in the rains favourable to *bhadoi* harvest, which is now nearly over, and if timely rain falls later on, prospects of winter rice will be assured. Average outturn of *bhadoi* for the whole district estimated at 10 annas. A 16-anna winter rice crop may be fairly expected. Floods subsiding.
	Banka ...	0·12	
	Mudhepura ...	Nil	
	Soopool ...	0·32	
Bhagulpore Divn. 35	Purneah ,, 13, '90	10·77	Weather—fine and sunny. Ten inches of rain fell at Purneah on night of 9th, but it was local. Prospects of crops continue favourable. *Bhadoi* harvest nearly completed.
	Kishengunge ...	2·44	
	Arrureah ...	4·94	
Bhagulpore Divn. 36	Maldah ,, 13, '90	2·31	Weather—hot and bright with occasional showers. Winter rice thriving well. Jute is still being cut. *Kalai* sowings going on. Rivers have gone down. Price of common rice continues unchanged.
	Chanchal ...	2·84	
	Shibgunge ...	0·52	
	Gajole ...	2·20	
Bhagulpore Divn. 37	Sonthal Pergns. ,, 13, '90	1·98	Weather—hot and oppressive with local thunderstorms on the last two days. Heavy rain at the Sudder and at Rajmehal, which has greatly benefited the rice crop. More rain is urgently required in other parts, and some damage to up-land rice has already been caused by the break in the rains and the hot sun. *Janera* harvest estimated at 10 annas in Jamtara.
	Deoghur ...	0·47	
	Jamtara ...	0·44	
	Pakour ...	0·89	
	Rajmehal ...	2·41	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Dtvn.	38	Cuttack Sept. 13, '90	1·17	Weather—hot. Slight rain during the week. Harvesting of *satika beali* rice going on. Prospects of early *sarad* rice not good for want of sufficient rain in most places in the Jajpur subdivision. Prospects elsewhere fair.
		Pooree „ 11, '90	1·00	Weather—seasonable. Puddling and weeding of *sarad* crop going on. *Beali* or early rice is being harvested. *Mandia* coming into ear. Miscellaneous crops doing well. Common rice 21 to 23 seers per rupee.
		Khoorda ...	7·40	
	39	Banpur ...	4·64	
	40	Balasore „ 13, '90	0·33	Weather—very hot. Want of rain felt all over the district. Price of rice stationary.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Dtvn.	41	Hazaribagh Sept. 13, '90	0·10	Weather—fine and unusually warm. Rain urgently wanted for rice crop all over the district. *Bhadoi* crops still being harvested with poor outturn. *Rubbi* sowings at a standstill for want of rain. Prices show a tendency to rise.
	42	Lohardugga „ 13, '90	0·37	Weather—hot and cloudy. Reaping of *goondli* and *gora* paddy going on Rain badly wanted for winter rice. Prices steady.
		Palamow (up to 8th Sept.)	0·27	
	43	Singbhoom Sept. 13, '90	Nil	Weather—unseasonable: dry and hot. Rain urgently wanted. With the exception of thanas Ghatsilla and Asanbani, where slight rain has fallen, there has been no rain in the district throughout the week. Two to four annas damage to rice crop reported from every part of the district except thana Monarpur, and if no rain falls within the next two or three days, the damage will be serious.
	44	Manbhoom „ 13, '90	0·37	Weather—very hot during week. More rain badly wanted. Winter crops suffering, but are now in a somewhat more healthy condition than they were three days ago: the recent rain has done some good. Prices rising: common rice 16 to 20 seers per rupee.
		Govindpore ...	Nil	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 16th September, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Beng

STATION OBSERVATIONS.

Meteorological Division.	District.	Representative station.	Air pressure. Mean barometric height, 9 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature week.	Temperature. Variation from normal mean of week.	Mean. 8 A.M.
Orissa.	Pooree	Pooree ...	29·693	29·705	—	Calm	165	94·7	7 & 8 Sep.	79·6	6, 8 & 9 Sep.	92·3	80·5	86·4	—	
		Gopalpore ...	29·676	29·688	+·006	N	171	91·2	7th ,,	77·8	7th ,,	90·1	79·6	84·8	+1·0	
		False Point ...	29·682	29·703	—·026	WNW	166	93·5	7th ,,	75·1	6 & 7 ,,	91·1	77·6	84·4	+1·3	
	Cuttack	Cuttack ...	29·682	29·712	—·007	Calm	30	95·4	6 & 11 ,,	76·8	6th ,,	94·0	79·3	86·7	+2·9	
	Balasore	Balasore ...	29·655	29·713	—·010	Calm	50	94·4	6 & 7 ,,	76·7	6th ,,	91·5	79·0	85·3	+2·2	
South-West Bengal.	South-West Midnapore / South 24-Parganuahs	Saugor Island	29·691	29·717	—·009	Southerly	230	91·7	11 & 12 ,,	79·0	6th ,,	90·8	81·6	86·2	+2·8	
	Midnapore	Midnapore ...	29·566	29·716	—·020	S	147	94·3	6 to 8 & 11th Sep.	77·1	6th ,,	93·7	79·0	86·4	+2·4	
	24-Parganuahs / Howrah / Hooghly	Calcutta ...	29·689	29·710	—·016	Variable	38	92·5	6th ,,	77·2	6th ,,	90·4	78·4	84·4	+1·9	
	Burdwan	Burdwan ...	29·618	29·717	—·017	SW	59	95·1	8th ,,	75·4	6th ,,	94·0	80·5	87·3	+3·3	
	Bankoora	Bankoora ...	29·385	29·682	—·025	Variable	76	96·1	6 & 7 ,,	76·5	9th, 10th & 11th Sep.	94·3	79·4	86·9	+3·4	
	Beerbhoom / West Burdwan	Ranegunge...	29·370	29·703	—·016	South-easterly.	39	96·5	6 & 7 ,,	78·3	12th ,,	93·2	79·3	86·3	+3·5	
	Moorshedabad	Berhampore...	29·637	29·704	—·030	S & SSW	89	93·7	6 to 8 ,,	79·8	6th ,,	91·0	80·9	86·0	+2·5	
	Nuddea	Krishnaghur...	29·660	29·707	—·014	SSE	93	?	?	?	?	?	?	?	?	
	Jessore / Khoolna	Jessore ...	29·679	29·713	—·028	Calm	54	93·8	6th, 7th & 11th Sep.	79·4	6 & 9 ,,	92·6	80·4	86·5	+2·9	
East Bengal.	Chittagong	Chittagong ...	29·664	29·754	—·082	WSW	55†	89·1	12th ,,	75·0	6th ,,	87·7	77·6	82·7	+1·4	
	Chittagong Hill Tracts	Demagiri ...	Observations not received.													
	Backergunge	Barrisal ...	29·705	29·717	—·027	Calm	45	92·8	7th Sep.	77·8	8th ,,	89·9	79·4	84·7	+3·2	
	Noakholly	Noakholly ...	29·712	29·726	—·003	Calm	62	88·5	6 & 7 ,,	75·8	7th ,,	87·4	78·2	82·8	+1·2	
	Furreedpore	Furreedpore...	29·692	29·732	—·011	Variable	55*	90·5	7th ,,	80·4	10th ,,	89·4	82·6	85·5	+3·4	
	Dacca	Dacca ...	29·694	29·717	—·029	SSW	84	93·1	7th ,,	80·2	10 & 12 ,,	90·9	80·8	85·4	+1·9	
	Commillah	Commillah ...	29·699	29·735	—·024	SE	37	91·3	6 & 8 ,,	78·8	7th ,,	88·5	77·3	82·9	+1·3	
	Mymensingh	Mymensingh..	29·670	29·728	—·027	SE	54	89·2	6th ,,	76·6	7th ,,	87·6	78·2	82·9	+0·6	
North Bengal.	Bogra	Bogra ...	29·636	29·699	—·009	Calm	41	90·3	8th ,,	76·1	11th ,,	88·7	77·5	83·1	+0·6	
	Serajgunge	Serajgunge ...	29·670	29·717	—·023	S	46	87·1	6 to 9 ,,	76·7	11th ,,	86·6	79·6	83·1	+0·7	
	Pubna	Rampore Beauleah. / Maldah	29·636	29·709	—·015	SSW	90	91·8	6 to 8 ,,	78·1	9th ,,	90·7	81·0	85·9	+3·9	
	Rajshahye	Maldah ...	29·613	29·695	+·035	SE	47	94·4	7th ,,	75·7	10th ,,	92·2	79·5	85·9	+3·0	
	Maldah	Dinagepore ...	29·592	29·713	—·035	SSW	31	91·1	7 & 8 ,,	74·1	10th ,,	89·2	76·2	83·7	+0·6	
	Dinagepore	Rungpore ...	29·604	29·739	—·003	Variable	38	91·8	8th ,,	72·7	10th ,,	88·2	76·8	83·4	—0·1	
	Rungpore	Julpigorse ...	29·431	29·720	—·006	?	50	89·4	8th ,,	72·6	10th ,,	86·8	75·0	80·9	—0·9	
	Julpigorse / Cooch Behar	Darjeeling ...	22·923	—	—·056	South-westerly.	106	66·6	7th ,,	54·6	11th ,,	64·2	56·0	60·1	—0·5	
	Darjeeling Hill Tracts	Purneah ...	29·575	29·701	—·027	Calm	16	91·2	7 & 10 ,,	72·4	10th ,,	89·0	77·4	83·2	0	
North Bengal.	Purneah / North Bhagulpore	Mozufferpore	29·687	29·666	—	E	98	94·3	8th ,,	80·2	6th ,,	93·1	81·5	86·8	—	
	Mozufferpore	Durbhunga ...	29·525	29·691	—·033	ENE	91	94·4	8th ,,	76·5	11th ,,	91·8	80·2	86·0	+2·5	
	Durbhunga	Motihari ...	29·472	29·700	—·008	ESE	124	95·2	7th ,,	77·9	9, 10, & 12 ,,	92·6	79·1	85·9	+2·6	
	Chumparun	Chupra ...	29·478	29·670	—·033	Calm	91	97·3	6th ,,	81·5	6th ,,	94·9	83·1	89·0	+5·5	
	Sarun	Dehree ...	29·523	29·675	—·037	SW & SSW	91	98·6	10th ,,	80·0	12th ,,	94·4	81·3	87·9	+5·5	
South Behar.	Shahabad	Buxar ... / Arrah ...	29·485 / 29·493	29·676 / 29·687	—·035 / —·013	Variable / N.-Ely.	89 / 18	95·4 / 96·4	9 & 11 ,, / 9th ,,	79·2 / 75·6	6th ,, / 10th ,,	94·2 / 95·5	80·6 / 80·0	87·4 / 87·8	+4·1 / +3·6	
	Gya	Gya ...	29·511	29·668	—·021	SW	105	97·0	10 & 12 ,,	79·8	7th ,,	96·2	80·9	88·6	+4·3	
	Patna	Bankipore ...	29·501	29·663	—·035	Variable	76	94·9	8 & 9 ,,	80·2	6th ,,	93·7	82·0	87·8	+3·1	
	South Bhagulpore / Monghyr	Bhagulpore ...	29·518	29·679	—·033	Calm	18	94·2	7th ,,	76·5	11th ,,	91·8	78·8	85·3	+2·5	
	Sonthal Pergunnahs	Doomka ...	29·700	29·695	—·018	S & SSE	75	94·8	6th ,,	75·9	11th ,,	93·0	77·8	85·4	+2·7	
Chutia Nagpur.	Hazaribagh	Hazaribagh ...	27·714	29·709	—·007	SSW	151	91·0	10th ,,	73·1	6, 11, & 12 Sep.	89·8	74·1	82·0	+2·7	
	Lohardugga / Manbhoom	Ranchee ...	27·597	29·706	0	Variable	90	89·0	7 & 8 ,,	72·6	8, 11, & 12 Sep.	86·6	72·8	80·7	+2·5	
	Singbhoom	Chyebassa ...	28·946	29·726	+·008	South-westerly.	36	94·4	6th ,,	77·2	6 & 12 ,,	93·5	77·6	85·7	+2·6	
Assam.	Assam	Sibsagar ...	29·404	29·739	—·061	Variable		91·6	8th ,,	75·0	9th ,,	88·0	77·6	82·7	—0·5	
		Dhubri ...	29·615	29·721	—·017	Calm	61	87·7	9th ,,	74·6	10 & 11 ,,	85·2	77·1	81·2	—1·0	
		Silchar ...	29·633	29·748	—·037	Calm		93·5	7 & 8 ,,	76·2	11th ,,	90·2	77·6	84·0	+0·9	

* Means for five days. † Means for six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the week. The humidity of the atmosphere is expressed at percentage, saturated air being presumed by 100. A clear sky is denoted by 0 and an overcast sky by 10. The normal rainfall means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the same week. Variation standing in minus divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

week ending Friday, the 12th of September 1890.

DISTRICT OBSERVATIONS.

Temperature at 9 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
87	0·96		2·85		4·41			38·36			3·9	Pooree ...		Orissa.
90	0·77											Gopalpore ...	Pooree	
84	0 01											False Point ...		
90	1·07	1·17	2·43	2·43	3·84	— 1·41	39·70	38·55	+1·15	3·4	3·8	Cuttack ...	Cuttack	
93	0·52	0·46	2·53	1·13	4·36	—3·23	33·36	39·76	—5·90	1·3	3·7	Balasore ...	Balasore	
71	Nil	Nil	2·06	0·04	5·69	—5·65	33·90	47·47	—13·48	0·0	4·0	Saugor Island ...	South-West Midnapore / South 24-Parganuahs	South-West Bengal.
86	0·55	0·36	1·91	0·48	3·79	—3·31	35·22	41 03	—6·71	1·0	3·5	Midnapore ...	Midnapore	
89	1·05	0·57	2·24	1·09	4·34	—3·25	38·37	42·31	—3·94	1·1	3·8	Calcutta ...	24-Parganuahs... ... / Howrah ... ... / Hooghly	
70	Nil	0·80	2·15	3·77	3·86	—0·09	47·95	38·03	+9·92	1·0	3·5	Burdwan ...	Burdwan	
93	0·90	0·23	2·30	0·57	4·11	—3·54	38·29	43·75	—5·46	0·5	3·0	Bankoora ...	Bankoora	
90	0·83	1·08	2·79	1·39	5·26	—3·87	46·61	41·35	+3·26	2·3	3·7	Ranegunge ...	Beerbhoom ... ... / West Burdwan ...	
70	0·07	0·47	2·78	1·06	5·13	—4·07	43·98	40·15	+3·83	1·0	3·6	Berhampore ..	Moorshedabad ...	
70	0·07	0·47	2·48	1·80	4·21	—2·41	37 90	39·70	—1·74	1·0	3·4	Krishnaghur ...	Nuddea	
79	0·04	0·20	2·49	0 81	4·51	—3·70	41·10	43·33	—2·23	1·1	3·5	Jessore ...	Jessore ... ... / Khoolna	
89	3·04	2·39	3 98	4·97	7·84	—2 87	107·38	97·35	+10·03	3·5	4·6	Chittagong ...	Chittagong	East Bengal.
			2·08		5·00			63·13			4·5	Demagiri ...	Chittagong Hill Tracts	
87	0·30	0·90	3·00	1·20	5·53	—4·33	58·30	62·24	—6·85	2·8	4·2	Barrisal ...	Backergunge	
83	3·39	4·06	4·18	5·08	8·16	—3·13	83·05	88·17	—5·12	4 0	4·8	Noakholly ...	Noakholly	
86	0·29	0·38	2·39	0·45	4·53	—4·08	34·25	45·57	—11·32	1·3	3·4	Furreedpore ...	Furreedpore	
87	0·31	0·31	2·89	0·72	5·42	—4·70	49·88	49·55	+0·33	1·8	3·5	Dacca ...	Dacca	
86	0·35	1·03	3·01	1·31	5·49	—4·18	49·73	55·96	—6·23	1·8	3·6	Commillah ...	Tipperah	
80	0·64	1·07	3·34	2·76	5·77	—3·01	59 83	55·43	+4·40	3·2	3·5	Mymensingh ...	Mymensingh	
86	1·56	2·43	2 36	4·37	4·54	—0·17	52·63	46·39	+6·23	3·8	3·2	Bogra ...	Bogra	
71	2·09	1·13	2 60	2·64	5·02	—2·38	39·03	42·53	—3·50	3·0	3 1	Serajgunge ...	Pubna	
21	0·49	1·25	2·94	2·30	5·58	—3·28	52·05	42·61	+9·44	3·0	3·3	Rampore Beauleah	Rajshahye	North Bengal.
81	2·31	2·56	3·58	2·58	5·98	—3·40	44·16	44·64	—0·48	3·5	3·3	Maldah ...	Maldah	
89	2·37	2·45	3 36	2·60	5·91	—3·25	55·53	47·17	+8·38	2·2	3·4	Dinagepore ...	Dinagepore	
26	1·55	2·32	3·35	6·29	6·36	—0·07	68·00	61·41	+6·59	4·5	3·3	Rungpore ...	Rungpore	
16	5·80	5·99	3·74	14·09	9·10	+4 99	129·03	92·01	+37·02	5·0	3·9	Julpigorse ...	Julpigorse ... ... / Cooch Behar	
85	2·74	4·58	3·93	10·73	8·35	+2·38	139·50	102·86	+36·64	5·8	4·3	Darjeeling ...	Darjeeling Hill Tracts	
57	11·06	3·53	3·35	3·89	5·80	—1·91	64·18	47·77	+16·41	2·0	3·0	Purneah ...	Purneah ... ... / North Bhagulpore	North Behar.
36	0·17	0·10	2·00	0·19	3 99	—3·80	43·79	34·47	+9·32	0 7	2·9	Mozufferpore ...	Mozufferpore	
50	Nil	0·33	2·31	0·42	4·62	—4·20	50·28	36·28	+14·00	0·8	2·9	Durbhunga ...	Durbhunga	
64	Nil	0·25	1·03	0·48	3·99	—3·51	54·14	37·59	+16·55	0·5	2·5	Motihari ...	Chumparun	
17	Nil	Nil	1·02	Nil	3·39	—3·39	43·94	33·41	+10·53	0·0	2·6	Chupra ...	Sarun	
29	Nil											Dehree ...		
20 / 31	Nil / 1·49	0·36	1·94	0·37	3·45	—3·08	41·17	32·11	+9·06	0·2	2·7	Buxar ... / Arrah ...	Shahabad	South Behar.
31	Nil	0·05	2·05	0·05	3·49	—3·44	51·70	34·43	+17·27	0·2	2·5	Gya ...	Gya	
30	0·16	0·33	1·94	0·33	3·37	—3·05	39·51	33·50	+6·01	0·8	2·6	Bankipore ...	Patna	South Bihar.
21	0·08	0·17	2·23	0·17	4·01	—3·84	44·11	35·35	+8·76	1·0	2·9	Bhagulpore ...	South Bhagulpore ... / Monghyr	
05	1·23	1·11	2·72	1·14	4·97	—3·83	47·02	41·18	+5·84	1·5	3·4	Doomka ...	Sonthal Pergunnahs...	
74	Nil	0·28	2·38	0·28	4·39	—4·11	40·14	41·39	—1·25	0·6	3·6	Hazaribagh ...	Hazaribagh	Chutia Nagpur.
26	0·37	0·73 / 0·35	2·36 / 2·35	0·32 / 0·92	4·69 / 3·63	—3·37 / —2·91	39·80 / 33·06	40·10 / 35·97	—0·30 / —2·91	1·7 / 2·5	3·7 / 3·6	Ranchi ...	Lohardugga ... ... / Manbhoom	
30	0·02	Nil	2·25	1·06	4·32	—3·26	26·09	43·33	—17·24	0·0	3·9	Chyebassa ...	Singbhoom	
90	1·47											Sibsagar ...		Assam.
73	4·71											Dhubri	Assam	
98	0·70											Silchar		

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
Cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall of the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of September 18

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	A r fr M
			Saturday, 6th September.	Sunday, 7th September.	Monday, 8th September.	Tuesday, 9th September.	Wednesday, 10th September.	Thursday, 11th September.	Friday, 12th September.	Number of rainy days.	Rainfall of week.				
Orissa	Pooree	Pooree	0·06		0·30	0·82	0·04		0·12	5	1·34	1·60	3·97	41·09	
		Khurdah	1·53	0·33	0·50	0·23	0·05	0·04		6	2·68	7·44	4·81	50·43	
		Banpur	1·06	0·80	0·50								3·74		
		False Point					0·01			1	0·01	0·94	5·12	36 93	
		Gop											?		
		Satpara			0·13	0·85							?		
		Pipli													
	Cuttack	Jagatsingpore		0·40	0·03				0·05	3	0·48	4·88	2·99	39·67	
		Banki		0·68			0·13	0·19	0·1	4	1·11	1·93	4·24	42·33	
		Cuttack	0·10	0·45				0·02		3	1·17	1·57	4·53	52·21	
		Kendrapara	0·02				0·34	0·87	0·07	4	1·30	2·71	3·40	31·41	
		Jajpore	0·60		0·23		0·38			3	1·21	1·54	3·97	32·90	
		Dharmsala		0·20			0·92	0·15		3	1·27	1·77	?	37·56	
		Salipore											?		
	Balasore	Chandbali					0·80	0·60	0·08	3	1·48	1·48	3·74	30·85	
		Bhuddruck					0·72			1	0·72	4·47	4·05	36·03	
		Sorah						0·10	0·15	2	0·25	0·35	4·48	35·02	
		Balasore	0·21			0·12				2	0·33	0·33	4·89	34 14	
		Jellasore								Nil	Nil	0·17	5·00	32·38	
		Baripodah								Nil	Nil	Nil	3·98	34·57	
South-West Bengal.	Midnapore	Contai								Nil	Nil	0·07	5 92	30·63	
		Saugor Island								Nil	Nil	Nil	5·19	33·33	
		Tumlook						0·50		1	0·50	0·50	4·18	39·10	
		Midnapore	0·40							1	0·40	0·77	3·46	35·34	
		Ghattal		0·17						1	0·17	0·17	3·73	32·85	
		Kukrahaty								Nil	Nil	0·36		26 69	
		Garbetta								Nil	Nil	Nil	?	38 63	
	24-Pergunnahs	Diamond Harbour								Nil	Nil	0·04	5·97	38·02	
		Canning Town					0·31	0·16		2	0·47	0·92	?	46·40	
		Alipore Jail		1·55						1	1·55	1·55	5·33	41·36	
		Barrackpore								Nil	Nil	0·38	3·62	38·75	
		Dum-Dum		1·11				1·02		2	2·13	2·75	4·78	34·69	
		Baraset			0·44			0·40	0·10	3	0·94	1·03	4·51	35·01	
		Busserhat								Nil	Nil	1·55	4·46	44·02	
	Howrah	Howrah		0·07	0·02					2	0·09	0·09	4·96	34·43	
		Mohesreka (*Oolobersah*)		0·30				0·14		2	0·74	0·74	4·13	45·02	
	Hooghly	Serampore								Nil	Nil	0·51	3 95	35·84	
		Hooghly								Nil	Nil	2·08	5·86	35·44	
		Jehanabad		0·22						1	0·22	0·22	3·92	44·20	
	Burdwan	Culna	0·92							1	0·92	4·89	3·30	44·12	
		Burdwan								Nil	Nil	4·17	4·01	54·64	
		Cutwa			1·64		0 10			2	1·74	2·23	4·20	45·06	
		Raneegunge			0·19	0·55			0·09	3	0·83	0·83	4·01	44·41	
		Mankur								Nil	Nil	0·61	?	40·14	
	Bankoora	Bankoora				0·30			0·60	2	0·90	1·90	4 07	43·02	
		Bishenpore								Nil	Nil	0·12	3·09	36·51	
		Mallara								Nil	Nil	Nil	3·04	45·08	
		Khatra								Nil	Nil	0·26	5·35	27·23	
		Indas	0·07							1	0·07	0·37	?	47·71	
		Kotalpore								Nil	Nil	Nil	?	58 63	
		Anda								Nil	Nil	0·15	?	34·88	
		Gangajalghati								Nil	Nil	Nil	?	49·39	
		Katpore								Nil	Nil	0·61	?	38·62	
		Somamukhi			0·51					1	0·51	0·51	?	39·74	
	Heerbhoom	Bh. Soory			0·03			0·25		2	0·28	0·54	5 50	47·55	
		Hetampore		2·95			0·12	0·05		3	3·12	3·92	5 74	42·86	
		Kampore Haut	0·10							1	0·10	0·27	5·79	51·66	
		Bolpore			0·06	0·19				2	0·25	1·28	?	43·23	
		Murarai											?		
	Nuddea	Ranaghat	1·98							1	1·98	4·12	3·77	41·06	
		Kishnaghur	0·07						0·01	2	0·08	2·35	4·04	44·01	
		Chooadanga				0·13				1	0·13	0·13	4·86	30·86	
		Meherpore								Nil	Nil	Nil	3·08	36·55	
		Kooshtea				0·16				1	0·16	2·38	4·72	37·33	
	Khoolna	Satkhira								Nil	Nil	1·38	4·03	44·60	
		Hagirhat			0·23				0·15	2	0·38	0·38	5·51	50·88	
		Khoolna				0·38				1	0·38	0·55	5·19	40·58	
		Nakipur				1·13							?		
		Rampal					0·27		0·18	2	0·45	0·66	?	46·63	
	Jessore	Narail								Nil	Nil	0·05	4·09	37·66	
		Jessore				0·04				1	0·04	0·20	4·27	43·84	
		Jhenidah			0·07				0·11	2	0·18	0·37	4·40	41·71	
		Magoorah								Nil	Nil	0·02	4·29	35·79	
		Bongong	0·15							1	0·15	2·83	4·28	33·11	
	Moorshedabad	Kandi	0·24							1	0·24	0·24	4·08	46·85	
		Berhampore				0·07				1	0·07	0·37	4·97	43·46	
		Lalbagh	0·53			0·15				2	0·68	1·04	4·79	47·46	
		Azimgunge	1·50							1	1·50	2·90	5·05	44·39	
		Jungipore								Nil	Nil	0·47	5·77	35·81	
		Lalgola					0·35			1	0·35	1·34	5·53	45·96	
		Jiagunge											?		
		Akhriguni											?		
		Patkabari											?		
East Bengal	Chittagong	Cox's Bazar		0·04			0·40		0·75	3	1·19	4·16	8·63	117·03	
		Chittagong	0·22	2·62	0·46	0·08				4	3·58	5·77	7·05	97·70	
		Kutubdia											?		
		Satkanga	0·81	2·05		0·06							?		
	Chittagong Hill Tracts	Rangmati	1·53	0·90		0·05	0·12		0·43	5	3·01	3·83	5·65	61·20	
		Rama		2·50									4·34		
	Backergunge	Patuakhally		0·25				1·63		2	1·88	2·09	6·40	68·27	
		Perosepore				0·26	0·17	0·30	0 16	4	0·96	0·96	5·40	51·43	
		Burrisal			0·27			0·17		2	0·44	1·28	4·94	52·54	
		Bhola		0·13	0·24	0·29				3	0·66	0·66	5·37	54·33	

tement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of September 1890 —contd.

orological vision.	District.	Station.	Rainfall							Total.		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 6th September.	Sunday, 7th September.	Monday, 8th September.	Tuesday, 9th September.	Wednesday, 10th September.	Thursday, 11th September.	Friday, 12th September.	Number of rainy days.	Rainfall of week.				
BENGAL. onsld.		*Gournaddi*	...	.....	0·12	.....	...	.....	.....	1	0·12	0·27	⁄	32·94	⁄
		Bauphal	...	0·48	.....	.....	0 05	.....	.....	2	0 53	1·89	⁄	57·09	⁄
	Noakholly	Noakholly	...	3·09	0·03	0·02	...	.....	0·15	4	3·29	4·16	7·80	78·49	87·82
		Feuny	...	3·40	0·10	.....	0·80	.....	0·52	4	4 82	5·89	8·52	92·60	89·44
		Harinkpore	0·20	1·90	0·80								⁄		⁄
		Ramgan	.....	...	.....	... ..	... ..	0·90	..	1	0 90	2·40	⁄	58·91	⁄
	Furreedpore	Madaripore	.....	.....	0·27	... .	... .	.....	.....	1	0·27	0·47	4·00	31·59	43 83
		Furreedpore	...	.....	... ..	0·25	0·02	...	.....	2	0·27	0·27	5·14	38·30	47·69
		Goalundo	.....	.....	.....	.....	.....	0·61	.....	1	0·61	0·61	4·41	32·85	43 15
	Dacca	Munshigunge	... ..	.....	0·07	.....	... ..	.....	... ..	1	0·07	1·27	6·25	51·45	56 03
		Dacca	... ..	.....	... ..	.....	0·04	.....	0 35	2	0·39	0·55	5·02	47·00	49 17
		Naraingange	.....	0·04	.....	.....	0·11	..	... ..	3	0·15	0·44	5·24	55·90	50·40
		Manekgunge	.....	.....	...	.....	0·26	0·36	.....	2	0·62	0·62	4·58	46·23	41 49
		Joydebpore	0·96	1·30	1·40	... .	0·10	0·35	.....	5	4·41	4·48	⁄	56·37	⁄
	Hill Tipperah	Agartola	0·10	.....	.....	.....	.....	1·82	.....	2	1·92	2·21	4·92	50·12	48 86
	Tipperah	Comilla	... ..	0·10	... ...	... ..	.....	0·85	.....	2	0·95	1·17	5 68	55·36	54·00
		Chandpore	.....	.....	0·30	... ..	.....	...	... ..	1	0·33	0·30	5·19	47·44	61·24
		Brahmunberia	.....	... ..	... .	0·60	.....	0·34	.....	2	0·94	1 54	5·86	45·89	49·75
		Ramchanara pore											⁄		⁄
		Nasirnagar	... ..	...	.....	.....	... ..	0·25	.....	1	0·25	0·25	⁄	30·41	⁄
		Daudkandi	... .	.....	.....	.....	...	... ..	... .	Nil	Nil	0·75	⁄	23·08	⁄
		Kasba	... .	.....	.....	... ..	0·07						⁄		⁄
		Laksham	.....	.....	..	.....	.....	.....	1·25	1	1·25	1·98	⁄	63·08	⁄
	Mymensingh	Kishoregange	0·43	.....	0·35	... .	... ..	0·54	0·34	4	1·66	2·86	6·36	57·65	55·66
		Atia (*Tangail*)	.....	... ..	... ..	0·43	.....	.....	0·15	2	0·58	0·58	4·80	42·57	41 38
		Mymensingh	.....	0·03	0·11	.....	... .	0·10	0·02	4	0 26	2 14	5·91	61·40	59·04
		Jamalpore	.....	... ..	0·13	.....	... ..	... ..	0 19	2	0·32	2·50	6·29	57·32	51·43
		Nasirabad	0·15	0·37	.....	.....	0·69	1·31	.....	4	2 52	5·60	5·91	80·62	65·82
		Subornakhali	.....	.....	0·03	0·65	... ..	1·10	.....	3	1·78	3·86	⁄	38·03	⁄
		Durgapore	0·70	.....	.....	.....	2·10	1·35	... ..	3	4·15	5·50	⁄	99·29	⁄
		ShereporeTown	0·05	.....	.....	.....	·80	0·23	.....	3	1·08	2·04	⁄	48·29	⁄
		Dewanganj											⁄		⁄
ORTH ENGAL.	Pubna	Pubna	.....	.....	.....	0·14	... ..	.....	.....	1	0·14	0·27	5·34	33·36	42·79
		Serajgunge	.....	0·25	0·05	0·56	0·67	0·58	... .	5	2 11	5·00	4 70	44·65	42·24
	Bogra	Sherepore	.....	1·27	.....	0·42	0·49	2·60	.....	4	4·78	6·99	4·27	56·49	47·04
		Nowkhilla	.....	... ..	.... .	0·14	0·57	0·70	.....	3	1·41	4 60	3·46	40 34	42 32
		Bogra	... ..	0·08	0·65	0·12	0·68	.....	0·16	5	1·69	3·25	4·86	51 90	50·28
		Panchubibi	.....	...	1·09	.....	0·71	... ..	0·22	3	2·02	2·60	5 50	52·55	45·35
	Rajshahye	Beauleah	.....	.....	.....	0·24	... ..	0·23		2	0·46	2·55	5·33	52·64	47·81
		Nattore	...	.....	... ..	2·10	0·16	0·15	... .	3	2 41	3·71	5·82	59·58	44·64
		Naogaon		... .	0·03	... ..	0·10	0·06	0·10	4	0·29	1·24	5·59	43·91	42·38
		Lalpore	0·95	.....	.....	0·37	0·16						⁄		⁄
		Manda	... ..	0·30	.....	0 10	.....	.....	.....	2	0· 0	0·80	⁄	2	⁄
	Maldah	Maldah	.....	.....	0·07	0·08	1 52	0·64	.....	4	2·31	2·31	6·18	45·63	41·12
		Chanchal	.....	.....	0·33	... ..	2·00	0·47	.....	3	2·80	2·84	5·78	42·66	48 12
		Gajol	.....	.....	...	...	3·00	0·20	.....	2	3 20	3·20	⁄	59·12	⁄
		Sibganj	.....	... ..	0·04	... ..	0·48	.....	.....	2	0·52	0·52	⁄	42·18	⁄
	Dinagepore	Mohadeopore	.....	.....	... ..	... .	.....	... ..	.....	Nil	Nil	Nil	5·10	41·41	46 62
		Churamon	.....	.....	.... .	0·33	3·72	0·12	.....	3	4·17	4·17	0·61	58·23	43 52
		Kaigunge	... .	... ..	.....	.....	2·10	....	.... .	1	2·10	2·35	5 89	65 58	49·03
		Dinageopore	0·03	.....	.....	... ..	1·13	0·15	0·80	4	2·11	2·92	6·01	60·94	53·15
		Balurghat	0·92	.....	.....	.....	1·76	... ..	1·21	3	3·89	3·89	5·92	51·64	41·69
		Thakoorgaon	1·30	.....	.....	0·75	0·71	.....	2·21	4	4·97	6·84	⁄	78·15	⁄
	Rungpore	Boaweanigunge (*Gyabanda*)	.... .	... .	.....	.....	0·20	0·23	0·41	3	0·84	3·40	5·74	64·08	50·69
		Rungpore	0·01	.....	.	0·10	0·52	0·13	0·46	5	1·22	3·96	7 07	57·01	62 10
		Kurigram	.....	0·13	.....	1·75	0·63	.....	1·23	4	3·77	10·36	5 91	69·31	62·34
		Begdogra (*Nilphamari*)	0·13	... ..	2·01	0·04	0·87	0·08	0·30	6	3·45	7·42	6·72	81·48	70·63
		Ulipore	0·10	. ..	.....	.....	1·25	.....	0 47	3	1 82	4·54	⁄	61 73	⁄
	Julpigoree	Julpigoree	0·01	0·06	.....	.....	3·94	0·32	1·58	5	5·91	11·38	9·05	128·08	96 13
		Alipore Dooar	.....	....	.....	.....	2·31	.....	0·44	2	2·75	19·48	⁄	162 61	⁄
		Fallacotta	.....	0·51	.....	.....	1·04	.....	0·57	3	2·12	13 13	⁄	121·14	⁄
		Debiganj	.....	0·12	0·34	1·56	0·75	.....	1·12	5	3·89	6·09	⁄	88·70	⁄
		Bhagatpore (Nagrakatta)	0·38	0·52	.....	0 07	3·66	1·08	3·25	6	8·96	18·01	⁄	148·06	⁄
	Cooch Behar.	Dinhatta	1·53	.....	.....	0·69	1·02	1·11	0·97	5	5·32	16·64	8·69	102 24	79·45
		Cooch Behar	0·10	.....	.....	2 34	2·04	1·36	0·95	5	6·79	19·74	10·09	146 76	99·84
		Mickilgunge	.....	0·64	.....	.....	2·07	0·75	0·53	4	3·99	8·15	9·18	121·59	90·12
		Mashbhanga	0·76	0·47	0·68	... ..	1·65	1·32	3·05	6	7·93	14·52	8 49	145·98	94·58
	Darjeeling Hill.	Buxa	1·26	0·34	0·02	0·90	1 27	1·00	1·08	7	5·87	16·92	12·09	179·34	101 99
		Silliguri	.....	.....	...	.....	6·90	0·19	0·86	3	7·95	16·67	6·23	161·00	88 96
		Darjeeling	0·65	0·74	0·01	0·13	0·78	0·28	0·15	7	2·74	4·27	9·50	127·88	91·94
		Kalimpong	0·04	0·11	.....	0·60	0·65	0·28	0·06	6	1·75	5·04	4·08	100·35	69·52
		Kurseong	0·57	1·46	0·98	1·70	1·70	0·20	0·53	7	7·14	9·07	⁄	165·69	⁄
ER BEHAR	Purneah	Kissenganje	1·17	.....	.....	.....	0·73	... ..	.....	2	1·90	2·80	6·53	78 65	58·69
		Arrareah	0·43	....	.....	0·26	2·66	.....	.....	3	3·35	5·24	6·46	66 86	52·27
		Purneah	0·29	.....	... ..	0·45	10·32	.....	.....	5	11·06	11·06	6·14	72 80	69·04
		Gondwara											⁄		⁄
		Balarampore	.....	.....	0·15	.....	2·80						⁄	⁄	⁄
		Matiari	... ..	.....	.....	.....	4·40	.....	0·40	2	4·80	8·22	⁄	⁄	⁄
		Kaliagani	0·38	0·91	1·10	0·41	4·00	0·04	1·92	7	8·71	13·19	⁄	99·65	⁄
	North Bhagulpor	Maddapore	.....	.....	... ..	.....	.....	.....	.....	Nil	Nil	Nil	5·12	51·05	39·46
		Soopool	.....	... ..	.....	0·25	0·07	.....	.....	2	0·32	0·32	4·75	52 67	39·58
		Protabganj	.....	... ..	.....	.....	0·72	.....	.....	1	0·72	1·80	⁄	40·54	⁄
	Durbhunga	Tajpore	.....	.....	.....	0·96	.....	.....	... ..	1	0·96	0·96	3·66	43·48	34·77
		Durbhunga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	4·78	51·17	37·24
		Madhubani	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·30	5·42	54·55	36·83
		Bahera	.....	.....	.....	.....	.....	.....	0·40	1	0·40	0·40	⁄	43·81	⁄
		Rashera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	⁄	40·46	⁄
	Mozufferpore	Sitamarhi	.....	.....	.....	0·08	.....	.....	... ..	1	0·08	0·36	4·70	43·41	35·02
		Mozufferpore	.....	.....	.....	0·22	.....	.....	... ..	1	0·22	0·22	4·41	48 83	35·56
		Hajipore	.....	... ..	.....	.....	.....	... .	... ..	Nil	Nil	Nil	2·85	50 12	32·76
		Pare	.....	.....	.....	0·34	.....	.....	... ..	1	0·34	0·34	⁄	50·22	⁄
		Mahua	.....	.....	.....	.....	.....	... ..	... ..	1	0·27	0·27	⁄	39·30	⁄
		Simbar	.....	0·20	.....	.....	.....	.....	.....	1	0·20	0·20	⁄	53 53	⁄
		Pupri	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	⁄	49·97	⁄

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of September 1890—concl

Meteorological Division.	District.	Station.	Rainfall. Saturday, 6th September.	Sunday, 7th September.	Monday, 8th September.	Tuesday, 9th September.	Wednesday, 10th Sept.	Thursday, 11th September.	Friday, 12th September.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —concluded.	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	4·47	54·94	35·
		Bettiah ...	.....	.....	.....	.....	.....	0·49	.....	1	0·49	0·04	3·51	53·41	38·
		Bagaha ...	.....	.....	.....	.....	.....	1·70	.....	1	1·70	1·70	?	69·20	
		Barhurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	?	47·10	
	Saran ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·66	48·61	34·
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·38	47·42	33·
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·13	40·78	32·
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·46	42·21	34·
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	4·15	37·50	32·
		Bhabooah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·32	92·89	33·
		Sasseram ...	.....	.....	.....	.....	1·80	.....	.....	1	1·80	1·84	2·92	36·59	31·
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·40	56·59	32·
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....				?	20·47	
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·68	53·95	35·
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·60	53·08	35·
		Nowadah ...	.....	.....	.....	.....	.....	0·21	.....	1	0·21	0·21	3·80	50·82	33·
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·78	48·36	30
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
		Daudnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	24·95	
		Sherghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·13	
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·32	
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·58	
	Patna ...	Patna ...	.....	.....	.....	.....	.....	0·16	.....	1	0·16	0·16	3·24	44·22	33
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·03	40·62	33
		Behar ...	.....	.....	.....	.....	0·15	0·95	.....	2	1·10	1·10	3·69	38·96	31
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·52	34·20	31
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·34	
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		41·92	
	Monghyr ...	Begoosera ...	.....	.....	.....	0·45	0·17	.....	.....	2	0·62	0·62	3·59	36·81	32
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·88	45·68	33
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·05	53·13	36
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·51	
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·66	
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	0·09	.....	.....	.....	1	0·09	0·09	4·15	49·77	34
		Barka ...	.....	.....	.....	.....	0·06	0·06	.....	2	0·12	0·12	3·78	35·10	33
		Kilgong ...	.....	.....	.....	.....	.....	.....	.....	N	Nil	Nil	?	48·40	
		Bangaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·04	
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	2·41	.....	.....	1	2·41	2·41	5·93	40·07	4
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	4·16	41·14	3
		Pakour ...	.....	.....	.....	.....	.....	0·39	0·69	2	1·08	1·18	0·56	52·45	4
		Nya Doomka	.....	.....	.....	.....	.....	0·75	1·23	2	1·98	1·98	5·77	56·94	4
		Deoghur ...	.....	.....	.....	.....	.....	0·47	.....	1	0·47	0·47	4·24	40·37	4
		Jamtara ...	0·04	.....	.....	.....	.....	0·40	0·29	3	0·73	0·81	3·17	50·89	3
		Mohagama ...	.....	.....	0·05	.....	.....	.....	.....	1	0·05	0·05	?	42·37	
		Namsat ...	.....	.....	.....	.....	0·06	.....	.....	1	0·06	0·06	?	22·00	
Chutia Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	.....	.....	.....	.....	0·38	0·67	0·36	3	1·41	1·41	4·02	46·94	3
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	4·18	40·86	3
		Semtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·87	30·99	3
		Mahudi Hills											4·33		4
		Jhoomra Hills	.....	.....	.....	.....	0·20	.....	.....	1	0·20	0·20	4·95	45·10	5
		Barki ...	.....	.....	.....	.....	.....	0·38	.....	1	0·38	0·38	?	42·92	
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·47	
		Karagdeha ...	.....	.....	.....	.....	.....	.....	0·12	1	0·12	0·12	?	48·49	
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·66	
	Lohardugga ...	Lohardugga ...	.....	.....	.....	.....	.....	0·33	0·62	2	0·95	0·95	4·98	46·45	4
		Ranchi ...	.....	.....	0·30	.....	.....	.....	0·55	2	0·85	0·85	4·60	32·59	4
		Palamow ...	.....	.....	.....	0·40	.....	.....	.....	1	0·40	0·67	4·49	40·41	3
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	30·30	
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·78	
		Hosseinabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	31·91	
		Gerwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	32·50	
	Singbhoom ...	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·06	4·32	26·09	4
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	19·41	
		Ghatsilla ...	.....	.....	0·82	.....	.....	.....	.....	1	0·82	0·82	?	37·77	
		Baharagora...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·80	
	Manbhoom ...	Purulia ...	.....	.....	0·07	.....	.....	0·07	0·23	3	0·37	0·46	3·93	36·06	3
		Gobindpore ...	.....	.....	.....	.....	.....	0·60	0·67	2	1·33	1·38	3·73	30·03	3
		Raghunathpore.	.....	.....	.....	.....	.....	1·75	.....	1	1·75	1·75	?	52·27	
		Barrabhoom	.....	.....	.....	0·04	.....	0·23	.....	2	0·27	0·27	?	36·54	
		Jhalda ...	.....	0·09	.....	.....	.....	.....	.....	1	0·09	0·81	?	44·19	
		Chas ...	.....	.....	.....	.....	.....	0·10	.....	1	0·10	0·10	?	39·56	

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the re are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 16th September* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 12TH OF SEPTEMBER 1890.

THE break in the monsoon current, which was an important feature of the meteorology of the previous week, has continued during the greater part of the present one, especially in the western districts, where only very scattered light showers have been received. In consequence temperature has been everywhere largely above the normal in all districts except North Bengal and part of East Bengal. The other important features are (1) the existence of low pressure over the Bay which has caused indraught at most of the coast stations, notably so at those in Orissa; (2) slightly deficient pressure, and very light irregular wind circulation at inland stations.

The depression over the Bay at first covered the whole of the northern half, but was very diffused, and without intensification slowly drifted in a westerly direction. On Saturday, the first day of the week, the area within which pressure was under 29·65 inches included this part of the Bay and the whole of Bengal. On the following day the depression had left the east of the Bay and the eastern and northern districts of Bengal behind, and by Monday the 8th, only the western districts of Bengal were within the area, but over the Bay the distribution was unchanged. After the passage of this trough of low pressure over Bengal, the variable winds with a westerly tendency were replaced by southerly or south-easterly directions, and rainfall became more general in East and North Bengal. Meanwhile in Orissa northerly winds blew with considerable steadiness, but as the differences of pressure were very slight, velocity was generally below the average. After the 8th pressure rose slowly, and the depression, though still showing off the coast of the Circars, was of very little importance and gradually filling up. From the 9th till the end of the month the ordinary wind circulation prevailed, southerly or south-westerly winds in Lower Bengal, and easterly in the northern districts. The sky was generally clear, and high temperature prevailed, while at times local heavy showers of rain fall.

Pressure—On the 6th was more than a tenth of an inch below the normal in Burmah and Arakan, and between a tenth and a twentieth below over the whole of the Bay and Bengal, with the exception of Orissa, Chutia Nagpur, and the western half of South-West Bengal. As the depression drifted westwards, pressure rose slowly at the eastern stations, but changed very slightly on the west coast of the Bay, where there was a rise of a few thousandths of an inch on the 7th, and a rise or fall of similar amount on the 8th. The general very slow rise continued on the 9th, and the distribution was then practically normal in Bengal and the northern half of the Bay, after which very small oscillations obtained till the end of the week, and the difference from the normal was generally under two hundredths of an inch. Thus from being considerably below the normal the general tendency has been upwards, and the distribution at the end of the week was almost normal. The means for the week are below the normal by amounts ranging up to ·04 inch.

Temperature—Owing to the clear skies and absence of rain, has been excessive throughout the week, mean excess for the large divisions being 3·9° in South Behar, 3 6 in Chutia Nagpur, 3° in South-West Bengal, 2·7° in North Behar, 2 1 in Orissa, 1 9° in East Bengal, and 1·1° in North Bengal. The hottest days in Lower Bengal were between the 6th and 8th, and in Behar about the 9th or 10th; while the lowest night temperatures were generally recorded on the 6th in Orissa, South-West Bengal, and South Behar, on the 7th in East Bengal, and on the 10th or 11th in the other districts. Maximum temperature rarely exceeded 91° in North and East Bengal and Chutia Nagpur, but in Behar and South-West Bengal it was as high as 97°. Changes were not important, being of the usual oscillatory character and somewhat irregular owing to the local rainfall.

Rainfall—Has been deficient in all districts, defect being 1·98 in South-West Bengal, 1·89 in Chutia Nagpur, 1·78 in East Bengal, 1·74 in South Behar, 1·58 in Orissa, and 1·27 inches in North Behar; while in North Bengal it is only ·3 inch. The total mean falls in South-West Bengal, Chutia Nagpur, and South Behar is half an inch or less, in Orissa 1 inch, in North Behar and East Bengal between one and one and-a-half inches, and in North Bengal nearly three inches. Scattered showers fell in Orissa, East Behar, and North Bengal throughout the week, but in the last two districts falls became much more general after the trough of low pressure drifted westward in the early part of the week, and on Wednesday the 10th general heavy rain fell in these districts and in Purneah; the heaviest reports being 10 inches at Purneah, 7 inches at Siliguri, more than 4 inches at Matiari and Kaliagunge in the Purneah district, and more than 3 inches at Gajol in the Maldah district, Churamon in Dinagepore, Julpigoree, and Bhagatpore. After the 10th rainfall was again lighter and more scattered, very few reports being over one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 12th of September 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	95·4	75·1	91·8	79·2	85·5	+2·1	1·00	2·58	—1·58	2·7	3·8	—1·1	2·14	4·20	36·98	38·73
South-West Bengal ...	96·5	75·6	92·5	79·8	86·2	+3·0	0·47	2·45	—1·98	1·0	3·6	—2·6	1·16	4·54	40·38	42·14
East Bengal	93·8	75·0	88·5	79·2	83·8	+1·9	1·34	3·12	—1·78	2·7	4·0	—1·3	2·13	5·78	59·60	60·33
North Bengal	94·4	72·6	86·8	78·2	83·5	+1·1	2·89	3·19	—0·30	3·7	3·4	+0·3	5·74	6·30	69·08	57·02
North Behar	97·3	72·4	92·1	80·3	86·2	+2·7	1·15	2·42	—1·27	0·9	2·8	—1·9	1·39	4·56	52·71	39·13
South Behar	97·0	75·0	94·1	80·2	87·1	+3·9	0·45	2·19	—1·74	0·8	2·8	—2·0	0·46	3·94	44·75	35·66
Chutia Nagpur	91·0*	71·4*	89·2*	73·2*	81·2*	+3·6*	0·50	2·39	—1·89	1·2	3·7	—2·5	0·63	4·36	37·47	40·76

* Chyebasa not included.

Meteorological Office, Bengal ; C. Little,

The 16th September 1890. *Offg. Meteorological Reporter to the Govt. of Bengal.*

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 7th to 13th September 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
September...	7th ...	29·693	85·3	90·0	9·4	80·6	86·8	82·5	1·054	80·9	83	0·42
...	8th ...	·706	85·9	92·0	12·2	79·8	89·1	81·7	·984	78·7	71	0·01
,, ...	9th ...	·725	85·7	92·0	12·7	79·3	87·6	81·5	·995	79·1	76	...
,, ...	10th ...	·723	86·2	92·5	12·7	79·8	87·4	81·3	·987	78·8	76	...
,, ...	11th ...	·729	86·4	93·0	13·2	79·8	88·6	83·0	1·055	80·9	78	...
,, ...	12th ...	·726	86·2	92·5	12·7	79·8	88·6	80·5	·933	77·1	69	...
,, ...	13th ...	·699	85·5	91·2	11·4	79·8	87·6	81·5	·994	79·0	76	...

	Inches.
The mean 10 A.M. pressure of the seven days	29·714
The mean temperature of the seven days	85·9
The extreme variation of temperature	13·7
The maximum temperature	93·0
	%
The mean 10 A.M. relative humidity of the seven days	76
	Inches.
The total fall of rain from 7th to 13th September 1890	0·43

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;

The 15th September 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 7th to 13th September 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Sept.	7th	134·8	Ni	29·625	85·0	89·2	10·4	78·8	81·7	1·040	80·4	86	Calm and variable...	9	0·01	Day cloudy, night chiefly clear; o, d, t, g.
,,	8th	154·5	5·1	·651	84·0	89·5	11·1	78·4	80·8	1·008	79·5	86	E by S and calm ...	27	Nil	Partially cloudy, ▲.
,,	9th	150·5	9·3	·666	85·0	89·9	11·8	78·1	80·7	0·990	78·9	83	SSE, SSW and calm	39	,,	Partially cloudy, ▲.
,,	10th	156·5	5·9	·658	84·8	90·7	11·7	79·0	81·2	1·018	79·8	85	SW, SSE and calm	49	,,	Partially cloudy, t, ▲, lr.
,,	11th	152·5	6·9	·662	84·6	90·0	11·2	78·8	81·0	1·013	79·6	85	SW and calm ...	48	,,	Partially cloudy, ▲.
,,	12th	161·4	7·6	·670	83·3	90·8	12·3	78·5	79·5	0·958	77·9	84	SSW, SSE and calm	52	,,	Partially cloudy, o, ▲, t.
,,	13th	152·9	4·7	·654	81·8	89·6	11·1	78·5	79·0	0·955	77·8	88	Variable and calm...	35	0·01	Chiefly cloudy, o, g, t, d, ▲.

		Inches.
The mean pressure of the seven days		29·655
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·653
		Hours.
The total number of hours of bright sunshine		39·5
The maximum possible number of hours of sunshine		86·5
		°
The mean temperature of the seven days		84·1
The average temperature of the corresponding period for 24 years, S.-G.'s Office		83·2
The extreme variation of temperature		12·7
The maximum temperature		90·8
		Miles.
The highest velocity of the wind in one hour		8
		lbs.
The highest pressure of wind on one square foot	Not measurable.	
		%
The mean relative humidity		85
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		86
		Inches.
The total fall of rain from 7th to 13th September 1890		0·02
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		3·14
The total fall from 1st January to 13th September 1890		41·23
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		53·64

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended *four feet* above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; t, thunder; d, drizzling rain; lr, lightning reflection; ▲ dew.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 15th September 1890.

MEMORANDUM.

Quarterly review of births and deaths registered in twenty-seven of the principal towns of Bengal for the Quarter ending 30th June 1890.

BIRTHS.

THE births registered in twenty-seven of the principal towns of Bengal during the three months ending with June 1890 were 4,014, and correspond to an annual rate of 15·12 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·68 lower than the mean rate of the corresponding quarters of the past five years (1885—89), and is also lower than the rate of the corresponding period of any of the past five years with which comparison is instituted, *vide* the figures below—

	Quarter ending 30th June of—						
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	23·20	17·16	17·00	17·92	18·76	18·80	15·12

The births registered in each of the twenty-seven principal towns during the second quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns:—

Towns.	Ratio per mille. Quarter ending 30th June of—			Towns.	Ratio per mille. Quarter ending 30th June of—		
	1890.	1889.	Average of five years, 1885—89.		1890.	1889.	Average of five years, 1885—89.
Burdwan	18·04	20·16	21·44	Narainganj	24·80	25·12	21·96
Midnapore	14·84	13·56	14·88	Chittagong	12·28	12·44	17·68
Hughli and Chinsurah	24·72	25·60	22·32	Comillah	28·12	28·12	29·00
Serampore	21·56	26·24	22·04	Patna	7·80	10·88	15·32
Uttarpara	13·32	23·20	16·68	Gya	17·36	16·20	22·64
Howrah	15·16	18·08	19·28	Arrah	13·52	10·76	13·60
Bali	11·32	14·00	14·84	Mozufferpore	12·72	25·84	16·44
Krishnagar	14·52	16·56	16·28	Durbhanga	21·12	33·44	28·80
Ranaghat	14·28	4·60	5·52	Chupra	9·56	19 04	13·36
Santipore	13·32	10·36	9·96	Bhagulpore	16·60	26·24	29·28
Jessore	8·00	13·16	9·44	Monghyr	19·80	25·84	25·52
Rampore Beauleah	28·28	35·56	29·48	Purneah	16·76	11·16	13·56
Darjiling	16·52	38·16	17·08	Poori.	17·08	18·88	15·00
Dacca	11·56	14·52	12·64	Total ...	15·12	18·76	18·80

The birth rate in India is supposed to be 40 per mille. Judged by this standard it will be seen that in all the towns mentioned births are very inaccurately registered. The highest rate attained during the quarter under report was in the town of Rampore Beauleah where it was 28·28 only. Birth registration appears to be particularly bad in the towns of Jessore, Chupra and Patna where the ratios are all less than 10 per 1,000 of the population.

DEATHS.

The deaths registered in the twenty-seven principal towns of Bengal during the quarter ending with June 1890 were 6,765, and correspond to an annual rate of 25·48 per 1,000 of the aggregate population of those towns. This rate is 2·44 higher than the mean rate of the corresponding period of the past five years 1885—89, and is also higher than the recorded mortality of the corresponding quarter of any of the past five years except 1885, *vide* the figures below—

	Quarter ending 30th June of—						
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	27·36	23·48	16·32	21·52	23·56	23·04	25·48

The deaths registered in each of the twenty-seven principal towns during the second quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns :—

Towns.	Ratio per mille. Quarter ending 30th June of— 1890.	1889.	Average of five years, 1885—89.	Towns.	Ratio per mille. Quarter ending 30th June of— 1890.	1889.	Average of five years, 1885—89.
Burdwan	23·68	22·76	27·44	Narainganj	19·40	20·68	24·20
Midnapore	23·36	10·32	15·96	Chittagong	13·52	18·40	23·64
Hughli and Chinsurah	40 04	19·86	27·00	Comillah	24·56	23·36	28·40
Serampore	30·16	32·44	31·24	Patna City	22 56	16·28	18·04
Utterpara	25·40	30·48	21·76	Gya	37·56	37·04	38·76
Howrah	17·04	15·16	17·44	Arrah	24·00	9 44	10·04
Bali	18·32	16·16	16·72	Mozufferpore	24·20	19·92	20·68
Krishnagar	9·28	17·00	18·32	Durbhanga	29·68	32·60	34·52
Ranaghat	12·88	8·72	6·88	Chupra	13·84	16·84	13·20
Santipore	9·00	10·36	8·32	Bhagulpore	24·10	24·08	30·08
Jessore	18·36	21·64	20·24	Monghyr	24·88	20·84	20·28
Rampore Beauleah	28 08	31·52	40 60	Purneah	22·64	33·80	25·00
Darjiling	55·84	27·92	25·04	Poori	101·32	84·56	45·48
Dacca	23·04	19·48	20·28	Total ...	25·48	22·52	23·04

It will be seen that the highest mortality during the second quarter of 1890 occurred in the town of Poori (101·32) and the lowest in Krishnagar (9·28). The total mortality of the twenty-seven principal towns in 1890 is higher than the total rates of the two past periods with which it is compared, and shows that on the whole registration is improving. The death-rates returned from Howrah, Bali, Krishnagar, Ranaghat, Santipore, Jessore, Naraingang, Chittagong and Chupra are I fear inaccurate. The Municipal Commissioners of those towns should again enquire into the matter and take steps to improve registration if the result of their enquiry shows that it is defective as I believe it is. The very high rate of mortality in the town of Poori during the quarter under review is due to an epidemic of cholera which prevailed in that town.

The total mortality during the quarter under review from the several registered death causes is compared in the following table with the mortality from those causes in the corresponding quarters of 1889 and the average of the five years 1885—89 : —

	Ratio per mille during the— Quarter ending 30th June 1890.	Quarter ending 30th June 1889.	Quarterly average of quarter ending 30th June 1885—89.
Cholera	4·52	4·36	4·08
Small-pox	·84	·56	·40
Fever	11·76	8·04	8 84
Bowel-complaints	2·20	2·40	2·92
Injury	·40	·52	·52
Other causes	5·68	6·52	6·20

The above statement, compared with the figures of both the past periods, shows a noticeable increase in the mortality in the 2nd quarter of 1890 under the head Fever.

The highest annual death-rates from the several registered death-causes occurred in the following towns : —

Cholera.	Ratio per mille.	*Small-pox.*	Ratio per mille.	*Fever.*	Ratio per mille.	*Other causes.*	Ratio per mille.
Poori ...	37 60	Poori ...	4·16	Darjiling ...	46·72	Poori ...	14·52
Hughli and Chinsurah ...	10·84	Ranaghat ...	2·76	Poori ...	36·60	Serampore ...	13·72
Patna City ...	8·96			Gya ...	25·28	Gya ...	10·60
Mozufferpore ...	7·92					Midnapore ...	10·00
Durbhanga ...	7·24					Bhagulpore ...	9·72
Utterpara ...	5 08						
Howrah ...	3·44						
Arrah ...	3·28						
Bali ...	2·68						
Bhagulpore ...	2·48						
Dacca ...	2·12						
Midnapore ...	2·00						

The mortality of the quarter under review according to *Sex*, *Class* and *Age* was distributed as follows :—

According to Sex.	Ratio per mille.
Males	26·44
Females	24·40
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population	108

According to Class.	Ratio per mille.
Christians ...	18·36
Hindus ...	26·52
Mahomedans ...	23·16
Buddhists ...	5·92
Other Classes ...	11·80

According to Age.	Ratio per mille.
Under 1 year ...	161·96
1 year and under 5 years ...	34·04
5 years „ 10 „ ...	13·72
10 „ „ 15 „ ...	10·28
15 „ „ 20 „ ...	15·44
20 „ „ 30 „ ...	15·96
30 „ „ 40 „ ...	19·48
40 „ „ 50 „ ...	20·92
50 „ „ 60 „ ...	39·40
60 years and upwards ...	64·84

Detailed information regarding the vital statistics of the quarter under review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 5th September 1890.

Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the Quarter ending 30th June 1890

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.														Sex.				
DISTRICTS.	NAMES OF MUNICIPALITIES.				NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.			Ratio of male births to every 100 female births.	DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.						Ratio of deaths per 1,000 of population per annum in the corresponding quarter of the previous year.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	85	69	*154*	9·96	8·08	*18·04*	123	5	8	112	24	2	51	*202*	·56	·92	13·12	2·80	·20	5·96	*23·68*	22·76	113	89	25·00	22·30	112
Midnapore ...	Midnapore ...	16,927	16,633	33,560	59	64	*123*	7·00	7·60	*14·64*		17	14	52	28		84	*196*	2·00	1·64	6·16	3·32	·08	10·00	*23·36*	16·32	110	86	25·96	20·68	125
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	99	97	*196*	12·48	12·24	*24·72*	102	86	15	139	18		64	*322*	10·84	1·88	17·52	2·24	...	8·04	*40 64*	19·80	183	139	46·12	35·12	131
Serampore ...	Serampore... ...	13,559	12,937	26,496	83	60	*143*	12·52	9·04	*21 56*	138	8	6	62	29	4	91	*200*	1·20	·88	9·36	4·36	·60	13·72	*30·16*	32·44	113	87	33·32	26·88	123
	Uttarpara	3,046	2,464	5,510	9	8	*17*	6·52	5·80	*12·32*	113	7	...	15	5	1	7	*35*	5·08	...	10·88	3·60	·72	5·08	*25·40*	30·48	23	12	30·20	19·48	155
Howrah ...	Howrah	53,153	37,660	90,813	197	148	*345*	8·64	6·48	*15·16*	133	79	32	131	52	8	85	*387*	3·44	1·40	5·76	2·28	·32	3·72	*17·04*	15·16	253	134	19·00	14·20	133
	Bali	7,836	6,979	14,815	24	18	*42*	6·44	4·84	*11·32*	133	10	2	37	9	4	6	*68*	2·68	·52	9·36	2·40	1·04	1·60	*18·32*	16·16	38	30	19·36	17·16	112
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	55	45	*100*	8·00	6·52	*14·52*	122	...	...	43	3	3	16	*64*	...	...	6·08	·40	·40	2·32	*9·28*	17·00	40	24	12·04	6·72	179
	Ranaghat	4,026	4,655	8,683	13	18	*31*	5·96	8·28	*14·28*	72	...	6	11	4	1	6	*28*	...	2·76	5·04	1·84	·44	2·76	*12·88*	8·72	16	12	15·88	10·28	134
	Santipore	13,706	15,979	29,687	62	37	*99*	8·32	4·96	*13·32*	167	1	6	39	10	6	12	*74*	·12	·80	5·24	1·32	·80	1·60	*9·96*	10·36	41	33	11·96	8·24	145
Jessore ...	Jessore	4,839	3,656	8,495	13	4	*17*	6·12	1·88	*8·00*	325	1	3	29	2	...	4	*39*	·44	1·40	13·64	·92	..	1·88	*18·36*	21·64	24	15	19·84	16·36	121
Rajshahye ...	Rampore Boalieah	10,766	9,025	19,791	73	67	*140*	14·72	13·52	*28·28*	109	3	..	97	7	4	23	*139*	·60	...	19·60	1·40	·80	5·64	*28·08*	31·52	81	58	30·08	25·68	117
Darjiling ...	Darjiling ...	4,579	2,439	7,018	15	14	*29*	8·52	7·96	*16·52*	107	...	1	82	6	1	8	*98*	...	·56	46·72	3·40	·56	4·52	*55·84*	27·92	59	39	51·52	63·96	80
Dacca ...	Dacca	42,782	37,379	80,161	117	115	*232*	5·80	5·72	*11·56*	101	43	11	194	54	9	151	*462*	2·12	·52	9·68	2·68	·44	7·52	*23·04*	19·48	280	182	26·16	19·44	134
	Narsingunj ...	7,605	4,956	12,561	32	46	*78*	10·16	14·64	*24·80*	69	3	..	24	10	4	20	*61*	·92	...	7·64	3·16	1·24	6·36	*19·40*	20·68	40	21	21·00	16·92	124
Chittagong ...	Chittagong ...	13,340	8,790	22,130	39	29	*68*	7·04	5·24	*12·28*	134	1	1	33	13	2	25	*75*	·16	·16	5·96	2·32	·36	4·48	*13·52*	18·40	46	29	13·76	13·16	104
Tipperah ...	Comillah	8,158	5,353	13,506	39	56	*95*	11·52	16·56	*28·12*	69	6	...	59	3	1	14	*83*	1·76	...	17·44	·88	·28	4·12	*24·56*	23·36	38	45	18·64	33·60	73
Patna	Patna City ...	78,766	61,475	140,237	166	148	*314*	4·12	3·68	*7·80*	112	360	46	264	56	15	164	*905*	8·96	1·12	6·56	1·36	·36	4·08	*22·56*	16·28	476	429	24·16	21·04	114
Gya	Gya	38,299	37,831	76,131	173	158	*331*	9·08	8·28	*17·36*	109	21	...	481	5	6	202	*715*	1·08	...	25·28	·24	·28	10·60	*37·56*	37·04	363	352	37·92	37·20	101
Shahabad ...	Arrah	28,269	22,595	43,465	72	86	*158*	6·60	7·88	*13·52*	83	36	11	177	16	8	13	*261*	3·28	1·00	16·28	1·44	·72	1·16	*24·09*	9·44	136	125	25·92	22·20	116
Mozufferpore ...	Mozufferpore ...	23,064	19,658	42,742	68	68	*136*	6·36	6·36	*12·72*	100	85	10	74	49	6	35	*259*	7·92	·92	6·92	4·56	·56	3·24	*24·20*	19·92	119	140	20·60	28 48	73
Durbhanga ...	Durbhanga ...	32,774	33,322	66,096	105	154	*249*	11·80	9·28	*21·12*	126	120	3	265	55	4	44	*491*	7·24	·16	16·00	3·32	·24	2·64	*29·68*	32·60	261	230	30·88	28·44	108
Saran	Chupra	25,116	26,554	51,670	65	58	*124*	5·08	4·48	*9·56*	113	16	23	60	22	10	48	*179*	1·20	1·76	4·64	1·68	·76	3·76	*13 84*	16·84	101	78	16·08	11·72	137
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,456	127	112	*239*	8·84	7·76	*16·60*	113	36	...	163	11	1	140	*351*	2·48	...	11·32	·76	·04	9·72	*24·40*	24·08	188	163	25·36	23·44	108
Monghyr ...	Monghyr	29,154	29,366	57,520	135	132	*265*	10·60	9·16	*19·80*	115	23	...	187	45	4	99	*358*	1·56	...	13·00	3·12	·24	6·88	*24·88*	20·84	183	170	26·68	23·12	115
Purneah ...	Purneah	8,463	6,553	15,016	34	29	*63*	9·04	7·72	*16·76*	134	1	2	70	8	...	4	*85*	·24	·52	13·64	2·12	...	1·04	*22·64*	33·80	45	40	21·24	24·40	87
Poori	Poori	13,247	11,537	24,784	47	59	*106*	7·56	9·52	*17·08*	79	233	26	227	43	9	90	*628*	37·60	4·16	36·60	6·92	1·44	14 52	*101·32*	84·56	272	356	32·12	123·40	66

MORTALITY ACCORDING TO—

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class. Deaths among—					Class. Ratio per 1,000 of population per annum.					Age. Deaths.										Age. Ratio per 1,000 of population per annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	144	58	...	...	.....	24·32	22·60	...	...	34	10	6	9	10	32	27	20	20	34	206·04	17·72	10·28	14·28	12·76	16·12	15·64	18·12	32·56	91·76
Midnapore ...	Midnapore ...	...	153	41	...	2	... ..	23·60	22·68	...	45·24	24	19	9	7	5	27	23	26	14	37	129·20	32·28	9·60	9·20	6·32	14·68	20·16	27·88	27·12	80·84
Hughli ...	Hughli and Chinsurah.	2	246	74	...	...	34·76	38·92	48·00	...	...	57	28	18	9	16	47	46	29	22	50	283·92	50·44	24·92	14·48	25·48	30·28	33·20	27·80	33·84	96·44
Serampore ...	Serampore ...	...	181	19	...	...	.....	28·69	81·00	...	...	42	22	14	5	4	20	37	17	15	24	236·60	4·40	22·24	9·00	7·32	14·92	29·76	20·12	31·32	69·00
	Uttarpara	...	34	1	...	...	.....	25·53	21·72	...	...	4	1	2	2	1	3	4	5	4	9	99·36	9·48	17·16	16·68	9·08	10·40	15·08	28·52	43·44	141·52
Howrah ...	Howrah	7	285	95	...	...	14·76	16·72	18·52	...	...	54	43	18	14	16	67	67	35	31	46	104·68	31·04	11·44	6·04	5·72	11·80	13·88	11·88	22·56	49·04
	Bali	...	65	3	...	...	.....	19·36	9·12	...	...	5	9	9	2	1	11	7	5	8	11	55·24	36·00	33·76	6·72	2·96	13·12	10·00	10·32	30·52	60·68
Nuddea ...	Krishnagar ...	3	39	22	...	...	21·16	8·36	10·60	...	...	9	5	1	2	5	2	13	6	9	13	72·56	8·08	1·16	2·84	9·72	1·64	11·20	7·32	17·68	30·68
	Ranaghat	...	24	4	...	...	.....	13·08	11·72	...	...	8	2	...	...	5	2	2	1	3	5	154·56	10·04	... ..	.....	32·08	5·28	6·40	3·96	16·56	35·12
	Santipore	...	61	13	...	...	.....	11·76	5·80	...	...	17	6	6	2	4	8	7	4	4	16	80·44	9·28	6·32	2·72	7·16	6·48	6·44	4·52	6·92	32·56
Jessore ...	Jessore	...	21	18	...	...	.. ...	18·60	18·80	...	...	1	3	2	1	3	7	4	6	7	5	20·60	24·28	10·08	6·00	16·36	13·88	10·44	22·84	49·72	43·64
Rajshahye ...	Rampore Beauleah	...	72	67	...	...	... ..	29·04	27·32	...	...	27	7	8	6	13	22	20	9	7	20	286·00	19·72	15·36	13·28	31·28	21·16	22·16	14·64	22·56	83·04
Darjiling ...	Darjiling ...	3	88	6	1	...	75·00	76·60	39·20	2·40	...	19	15	4	2	3	20	16	5	9	5	628·08	93·28	27·32	16·36	18·72	40·00	44·68	28·88	147·52	118·32
Dacca ...	Dacca	1	276	185	...	...	8·40	27·36	18·80	...	...	71	45	25	16	22	69	65	43	33	73	149·60	24·40	10·04	8·04	12·04	18·00	22·28	20·48	27·84	52·36
	Naraingunj ...	...	20	41	...	...	.....	12·64	26·60	...	...	20	7	5	4	...	6	3	7	1	8	286·72	24·56	15·12	14·08	... ..	8·96	5·60	20·08	5·68	49·04
Chittagong ..	Chittagong ...	4	9	60	2	...	20·08	6·20	15·68	25·32	...	14	8	4	3	1	13	11	9	5	7	99·44	16·24	6·40	4·64	1·64	11·20	13·16	15·92	18·40	35·16
Tipperah ...	Comillah	...	32	51	...	...	.. ...	21·52	27·60	...	...	15	6	4	3	5	12	4	5	3	26	202·00	18·32	9·80	8·20	15·88	17·36	8·00	15·20	14·96	153·36
Patna	Patna City ...	4	672	229	...	...	45·04	22·56	22·40	...	...	90	103	55	51	63	110	112	91	75	155	83·52	23·20	13·04	14·16	22·56	15·24	19·24	19·32	21·20	44·88
Gya	Gya	...	567	148	...	...	..	37·76	36·50	...	...	127	97	29	22	14	61	53	85	88	139	283·76	61·04	16·56	13·04	10·68	16·56	16·64	34·60	53·56	108 60
Shahabad ...	Arrah	...	186	73	...	...	.....	24 24	23·52	...	...	38	43	16	20	10	20	34	17	16	47	118·00	38 76	12·44	18·08	12·68	10·16	21·12	14·48	20·64	65·16
Mozufferpore ...	Mozufferpore ...	1	166	92	...	...	17·16	22·08	29·48	..	...	47	57	33	10	8	30	23	21	16	29	196·84	36·60	29·32	10·08	10·52	13·96	16·04	16·76	19·68	47·64
Durbhanga ...	Durbhanga ...	...	338	153	...	...	.....	27·92	34·80	...	...	76	120	46	20	25	45	48	38	18	55	195·24	63 04	23·52	13·60	24·84	13·48	17·20	20·40	16 40	68·84
Saran	Chupra	1	137	41	...	...	37·36	13·80	15·76	...	...	48	23	9	7	7	26	13	7	19	20	136·04	17·80	6·04	5 56	8·04	11·28	6·68	4 60	18·36	23·48
Bhagulpore ...	Bhagulpore ...	4	255	93	...	...	41·44	24·72	21·32	...	...	72	44	20	11	17	44	27	32	30	54	241·20	32·44	13·60	6·96	16·24	16·08	11·64	19 92	25·16	59 96
Monghyr ...	Monghyr	1	286	71	...	...	16·80	25·56	22·56	...	...	72	47	10	10	25	46	37	28	13	70	193·92	30·20	5·64	6·96	26·44	17·76	16·56	17·56	13·04	37·00
Purneah ...	Purneah	1	37	47	...	...	23·92	16·12	33·20	..	...	11	7	10	3	1	16	17	8	8	4	155·44	23·16	25·28	10·04	4·00	19·48	23·80	17·24	34·12	19·80
Poori	Poori	...	626	2	...	...	.....	102·04	38·08	...	...	26	34	13	11	29	78	126	96	111	104	343·20	75·68	23·16	23·24	62·36	59·04	124·32	115·52	199·00	230·32
	TOTAL ...	32	5,022	1,706	3	2	18·36	26·52	23·16	5·92	11 80	1,028	791	376	248	313	844	855	655	589	1,066	161 96	34·64	13·72	10·28	15·44	15 36	19·48	20·92	30·40	64·84

OFFICE OF SANITARY COMMISSIONER FOR BENGAL;
The 5th September 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of June 1890.

THE deaths registered in forty-five districts in Bengal during the month of June 1890 were 114,999, and correspond to an annual rate of 20·88 per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is 2·28 higher than the mean rate of the corresponding months of the past five years 1885—89, and is also higher than the rate of the corresponding period of any of the past five years, *vide* the figures below—

	June 1885.	June 1886.	June 1887.	June 1888.	June 1889.	Monthly average of five years, 1885—89.	June 1890.
Ratio of deaths per 1,000 of the population per annum	18·00	15·96	20·40	19·08	19·68	18·60	20·88

The following table shows the highest proportions of deaths registered during the month of June 1890, compared with the corresponding month of 1889 :—

Districts.	Ratio per *mille* during— June 1890.	June 1889.	*Districts.*	Ratio per *mille* during— June 1890.	June 1889.
Darjiling	46·32	45·48	Noakhali ...	29·52	26·76
Chumparun	42·48	14·40	Monghyr ...	29·28	19·92
Patna	36·48	18·96	Durbhanga ...	26·52	13·08
Julpaiguri	33·00	30·24	Dinajpore ...	24·96	19·44

The figures of June 1890 show a distinct advance towards accuracy in death registration in the districts mentioned.

The total mortality during the month under review from the several registered death causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89 :—

	Ratio per *mille* during— June 1890.	June 1889.	Monthly average of five years 1885—89.
Cholera	2·40	4·32	2·52
Small-pox	·24	·12	·12
Fever	14·40	11·40	12·12
Bowel-complaints	·48	·60	·72
Injury	·60	·60	·60
Other causes	2·52	2·40	1·20

It will be seen that the death-rate of June 1890 under the head Fever was considerably higher than in the two past periods, with which it is compared. Under the head Cholera, there was a sensible reduction in mortality during June 1890 as compared with June 1889. The mortality from the unspecified diseases returned under the head Other Causes in June 1890 is higher than the average rate of the corresponding month of the past five years 1885—89.

The highest annual death-rates from Cholera and Fever occurred in the following districts :—

Cholera.	Ratio per *mille*.	*Fever.*	Ratio per *mille*.
Chumparun	21·24	Darjiling	33·60
Patna	10·92	Julpaiguri	30·72
Monghyr	7·92	Noakhali	26·64
Durbhanga	7·56	Dinajpore	22·68
Poori	5·88	Rungpore	20·04
Mozufferpore	4·68		
Balasore	4·44		
Sarun	3·48		
Bhagulpore	3·36		
Cuttack	3·12		
Gya	2·64		
Shahabad	2·40		

From Small-pox high mortality occurred again only in the district of Chumparun—mortality 2·64 per 1,000 of population.

The mortality of the month under review, according to *Sex*, *Class* and *Age*, was distributed as follows :—

According to Sex.	Ratio per *mille.*
Males	22·92
Females... ...	18·84
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ...	121

According to Class.	Ratio per *mille.*
Christians ...	12·00
Hindus ...	21·60
Mahomedans ...	19·56
Buddhists ...	20·04
Other classes ...	19·41

According to Age.	Ratio per *mille.*
Under 1 year	132·48
1 and under 5 years ...	24·24
5 „ 10 „ ...	11·76
10 „ 15 „ ...	10·32
15 „ 20 „ ...	13·68
20 „ 30 „ ...	13·80
30 „ 40 „ ...	15·60
40 „ 50 „ ...	20·76
50 „ 60 „ ...	28·44
60 years and upwards ...	47·16

Detailed information regarding the mortuary statistics of the forty five districts of Bengal during the month under review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 10th September 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of June 1890.

1	2	3			4							5							6		7		8		9
DIVISIONS.	DISTRICTS.	POPULATION.			MORTALITY ACCORDING TO— Disease. Deaths from—							Ratio per 1,000 of population per annum.							Comparison with previous periods.		Sex. Deaths among—		Sex. Ratio per 1,000 of population per annum.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
		Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	
BURDWAN	Burdwan	668,296	723,528	1,391,823	1	11	1,293	31	40	394	1,770	·008	·08	11·04	·24	·34	3·36	15·24	18·00	24·60	928	842	16·56	15·02	113
	Bankura	507,136	534,616	1,041,752	1	29	912	26	51	333	1,373	·01	·24	10·68	·24	·48	3·72	15·72	18·36	19·32	781	591	18·48	13·90	149
	Birbhum	381,363	412,865	794,428	2	3	837	10	23	409	1,284	·02	·03	12·60	·12	·24	6·00	19·32	23·88	23·16	657	627	20·64	18·12	108
	Midnapore	1,243,195	1,272,370	2,515,565	125	206	2,473	159	109	545	3,617	·46	·96	11·76	·72	·48	2·52	17·16	15·60	17·40	1,864	1,753	17·88	16·44	113
	Hughli	315,656	347,385	663,050	3	12	745	84	31	134	1,009	·04	·12	13·44	1·44	·48	2·40	18·24	19·56	14·28	509	500	19·32	17·16	104
	Serampore	174,566	177,389	351,955	9	...	313	52	23	58	455	·24	...	10·56	1·68	·72	1·92	15·48	21·48	16·92	250	205	17·16	15·80	124
	Total (Hughli including Serampore).	490,221	524,774	1,015,005	12	12	1,058	136	54	192	1,464	·12	·12	12·48	1·56	·60	2·16	17·28	20·28	15·24	759	705	18·48	16·66	114
PRESIDENCY	Howrah	316,479	318,902	635,381	30	46	397	157	41	252	925	·48	·84	7·24	2·88	·72	4·68	17·40	17·28	14·16	490	435	18·48	16·32	113
	24-Pergunnahs	360,841	312,521	1,673,362	53	17	1,627	71	106	247	2,121	·36	·12	11·52	·48	·72	1·68	15·12	14·04	13·08	1,140	981	15·84	14·40	110
	Nuddea	805,779	849,942	1,655,721	10	20	1,420	21	132	254	1,857	·07	·12	10·20	·12	·84	1·80	13·44	14·16	13·40	1,036	831	15·36	11·52	133
	Jessore	959,271	980,104	1,939,375	13	8	2,563	9	144	170	2,907	·07	·04	15·84	·04	·84	·96	17·88	19·68	17·76	1,612	1,295	20·16	15·84	127
	Murshidabad	595,483	640,307	1,235,790	12	9	1,239	11	92	213	1,576	·10	·08	12·00	·09	·84	2·04	15·36	17·28	19·92	869	707	17·76	13·20	135
	Khulna	968,402	811,546	1,979,948	67	...	1,399	9	63	199	1,737	·72	...	15·48	·09	·60	2·16	19·20	21·48	17·88	937	800	19·68	18·72	105
	Dinajpur	782,292	732,654	1,514,946	33	8	2,676	3	67	140	3,152	·24	·06	22·68	·02	·60	1·08	24·06	22·32	19·44	1,804	1,348	27·60	22·08	125
	Rajshahye	680,719	676,893	1,339,605	45	...	2,191	17	86	130	2,472	·36	...	19·56	·12	·72	1·08	22·08	23·40	16·44	1,279	1,193	23·16	21·40	110
	Rungpore	1,067,701	1,030,263	2,097,964	8	...	3,510	9	66	222	3,815	·03	...	20·04	·03	·36	1·20	21·72	19·20	18·36	2,280	1,535	25·56	17·76	144
RAJSHAHYE	Bogra	372,193	361,200	733,393	2	9	1,013	4	52	163	1,243	·02	·12	16·56	·06	·84	2·64	20·28	16·92	15·90	673	570	21·60	18·84	118
	Pubna	648,311	663,417	1,311,728	1	...	2,046	5	69	83	2,204	·008	...	18·60	·03	·60	·72	20·16	18·48	14·40	1,268	988	23·40	16·92	128
	Darjiling	89,351	66,294	155,645	10	...	457	102	2	51	602	·72	...	31·60	7·80	·12	3·84	46·32	39·76	46·48	349	253	46·80	45·73	102
	Julpaiguri	306,972	276,418	582,390	35	1	1,492	10	13	51	1,602	·72	·01	30·72	·12	·24	·96	33·00	33·24	30·24	874	728	34·20	21·56	108
DACCA	Dacca	1,033,863	1,082,487	2,116,350	62	5	1,886	109	120	405	2,587	·24	·02	10·68	·60	·60	2·16	14·64	14·52	12·12	1,426	1,161	16·44	12·84	128
	Faridpore	805,989	825,745	1,631,734	30	12	1,301	20	81	191	1,635	·12	·08	9·48	·12	·48	1·32	12·00	15·60	11·16	903	732	13·44	10·56	127
	Backerganj	973,479	927,410	1,900,889	55	1	2,158	31	150	867	3,263	·24	·006	13·56	·12	·84	5·40	20·52	23·28	19·20	1,832	1,410	22·56	18·48	122
	Mymensing	1,555,840	1,501,103	3,056,943	133	72	3,804	61	94	502	4,666	·48	·24	14·88	·12	·36	1·92	18·24	17·04	15·48	2,577	2,089	19·80	16·08	116
CHITTAGONG	Chittagong	531,649	600,692	1,132,341	148	...	1,439	60	72	190	1,909	1·56	...	15·24	·60	·72	1·92	20·16	20·04	14·04	1,030	909	22·56	18·12	124
	Noakhali	415,248	405,524	820,772	4	...	1,823	13	65	110	2,020	·04	...	26·64	·12	·84	1·56	29·52	32·64	26·76	1,007	1,013	29·04	29·88	97
	Tipperah	768,456	745,911	1,514,361	34	...	1,881	26	83	232	2,256	·24	...	14·88	·12	·60	1·80	17·76	18·60	15·96	1,179	1,077	18·36	17·28	106
PATNA	Patna	856,501	895,058	1,751,559	1,594	145	2,818	195	63	527	5,342	10·92	·96	19·20	1·32	·36	3·60	36·48	34·56	18·96	2,865	2,477	40·08	33·12	121
	Gya	1,043,441	1,081,241	2,124,682	481	91	2,954	18	119	290	3,951	2·64	·48	16·68	·09	·60	1·56	22·32	23·08	17·88	2,490	1,863	24·00	20·64	116
	Shahabad	960,220	1,014,659	1,964,909	400	55	2,533	32	96	315	3,436	2·40	·24	15·48	·12	·48	1·92	20·88	23·44	18·12	1,900	1,536	23·88	18·12	131
	Monufferpore	1,265,751	1,316,329	2,582,060	1,029	73	3,003	111	131	418	4,815	4·68	·24	13·92	·48	·84	·12	22·32	20·52	13·08	3,117	2,717	28·80	24·36	118
	Durbhanga	1,208,788	1,237,659	2,633,447	1,682	15	3,611	146	131	249	5,834	7·56	·06	16·44	·60	·48	1·08	25·64	22·20	14·16	2,443	2,657	47·07	37·44	126
	Sarun	1,085,847	1,199,832	2,285,679	676	78	2,077	212	107	1,084	4,234	3·48	·36	10·80	1·08	·48	5·64	22·20	21·72	14·08	2,388	1,846	26·28	18·36	142
	Chumparun	870,637	850,981	1,721,608	3,049	391	2,058	63	118	420	6,099	21·24	2·64	14·28	·36	·72	2·88	42·48	30·36	14·40	3,442	2,657	47·07	37·44	126
	Monghyr	969,124	1,000,650	1,969,774	1,312	12	2,956	51	157	326	4,814	7·92	·07	18·00	·24	·84	1·92	29·28	39·84	19·92	2,583	2,232	31·92	26·76	119
BHAGULPORE	Bhagulpore	979,119	987,039	1,966,158	564	8	2,580	25	97	446	3,720	3·36	·04	15·72	·13	·48	2·64	22·68	34·20	19·20	1,994	1,726	24·36	20·88	116
	Purneah	967,080	911,607	1,878,687	100	6	2,303	3	69	43	2,614	·60	·03	15·48	·01	·36	·24	16·92	23·28	15·36	1,474	1,140	18·84	15·00	125
	Maldah	346,998	363,450	710,448	85	...	911	2	23	81	1,102	1·32	...	15·36	·02	·36	1·32	18·60	25·08	17·40	625	477	21·60	15·72	137
	Sonthal Pergunnahs	785,330	782,763	1,568,093	173	4	1,374	17	33	237	1,843	1·32	·02	10·44	·12	·24	1·80	14·04	18·00	14·88	987	856	15·00	13·08	115
ORISSA	Cuttack	877,782	917,363	1,795,085	469	27	1,217	240	96	640	2,689	3·12	·12	8·04	1·56	·60	4·20	17·88	17·52	42·60	1,377	1,312	18·72	17·16	109
	Poori	446,609	441,678	888,487	441	44	338	114	39	664	1,640	5·88	·48	4·56	1·44	·48	8·88	22·08	16·68	109·68	809	831	21·72	22·56	96
	Balasore	461,461	483,619	945,280	358	6	610	303	58	446	1,781	4·44	·07	7·68	3·84	·72	5·64	22·36	16·44	69·24	993	788	25·80	19·44	132
CHOTA NAGPORE.	Hazaribagh	544,903	559,939	1,104,742	33	3	1,446	59	61	197	1,799	·24	·02	15·60	·60	·60	2·04	19·44	21·30	20·52	933	866	20·40	18·48	110
	Lohardugga	796,657	812,587	1,609,244	...	18	1,920	113	9	640	2,700	...	·12	14·28	·84	·06	4·68	20·04	20·36	19·56	1,402	1,298	21·00	19·08	110
	Singbhum	328,631	327,094	655,725	...	8	465	52	41	142	708	...	·12	12·24	1·32	1·08	3·72	18·72	16·20	19·44	383	325	20·16	17·16	117
	Manbhum	535,338	532,900	1,068,238	...	48	1,289	58	61	365	1,821	...	·48	14·52	·60	·60	4·08	20·64	23·88	20·52	957	864	21·84	19·44	113
																					62,894	52,405	22·92	18·84	121

MORTALITY ACCORDING TO—

Class.

DIVISIONS.	DISTRICTS.	Deaths among—					Ratio per 1,000 of population per annum.				
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
BURDWAN	Burdwan	...	1,436	334	...	...	...	15·36	15·12	...	.....
	Bankura	...	1,174	65	...	133	...	15·36	16·80	...	18·84
	Birbhum	...	998	247	...	39	...	12·72	18·12	...	32·28
	Midnapore	...	3,114	270	...	233	...	16·68	19·20	...	23·76
	Hughli	1	799	209	...	...	41·28	17·88	19·32	...	...
	Serampore	...	386	69	...	...	...	15·84	13·80	...	...
	Total (Hughli including Serampore).	1	1,185	278	...	...	18·24	17·16	17·52	...	...
PRESIDENCY	Howrah	4	720	201	...	...	23·40	17·16	18·24	...	...
	24-Pergunnahs	12	1,336	775	...	...	14·16	15·36	14·76	...	...
	Nuddea	5	788	1,664	...	...	9·24	12·96	13·80	...	...
	Jessore	1	1,262	1,704	...	...	24·36	18·72	17·40	...	...
	Murshidabad	...	823	753	...	...	...	15·48	15·24	...	...
	Khulna	3	790	944	...	...	48·12	18·00	20·28	...	...
RAJSHAHYE	Dinajpur	...	1,466	1,686	...	...	...	24·48	25·32	...	...
	Rajshahye	...	4[illegible]	1,978	...	...	...	20·40	22·56	...	...
	Rungpore	...	1,481	2,334	...	...	...	21·72	21·84	...	...
	Bogra	...	213	1,030	...	...	...	18·12	20·76	...	...
	Pabna	...	581	1,623	...	...	...	19·20	20·40	...	...
	Darjiling	1	570	17	14	...	14·16	53·76	24·84	8·88	...
	Julpaiguri	1	1,035	531	...	15	96·00	34·32	30·48	...	38·88
DACCA	Dacca	11	1,148	1,428	...	...	15·00	16·08	15·56	...	...
	Faridpore	3	674	958	...	...	13·08	12·36	11·76	...	...
	Backerganj	3	946	2,313	...	...	9·60	18·12	21·84	...	...
	Mymensing	1	1,503	3,038	...	124	79·44	18·12	16·92	...	57·24
CHITTAGONG	Chittagong	3	[illegible]	1,378	119	...	34·08	17·76	20·52	26·28	...
	Noakhali	2	424	1,589	...	...	40·80	24·24	31·32	...	...
	Tipperah	...	962	1,394	...	...	...	20·28	16·56	...	...
PATNA	Patna	7	4,844	491	...	...	32·40	37·80	27·60	...	...
	Gya	...	5,469	484	...	...	...	21·96	24·84	...	...
	Shahabad	...	3,166	270	...	...	...	20·88	22·08	...	...
	Mozufferpore	...	4,269	552	...	...	...	22·56	20·88	...	...
	Durbhanga	...	5,178	656	...	...	...	26·64	25·44	...	...
	Saran	1	3,771	462	...	...	42·48	22·44	20·52	...	...
	Chumparun	11	5,090	998	...	...	68·16	41·28	49·32	...	...
BHAGULPORE	Monghyr	1	4,354	453	...	6	10·92	29·40	28·92	...	9·36
	Bhagulpore	2	3,380	338	...	...	41·52	22·92	21·84	...	...
	Purneah	1	1,541	1,072	...	...	36·60	17·16	16·56	...	...
	Maldah	...	652	449	...	1	...	20·52	16·32	...	6·84
	Soonthal Pergunnahs	1	1,104	135	...	603	3·84	15·60	14·76	...	11·88
ORISSA	Cuttack	2	2,628	59	...	...	10·20	18·00	14·88	...	...
	Poori	1	1,623	16	...	...	14·64	22·20	13·68	...	...
	Balasore	...	1,743	58	...	...	...	22·80	19·08	...	...
CHOTA NAGPORE.	Hazaribagh	1	1,584	187	...	27	21·72	20·52	21·12	...	4·32
	Lohardugga	16	1,235	154	...	1,295	5·28	17·04	23·76	...	24·72
	Singbhum	2	695	11	...	...	7·92	18·60	56·64	...	...
	Manbhum	1	1,508	71	...	241	21·72	19·08	18·72	...	45·80
	TOTAL FOR THE PROVINCE.	98	77,228	34,826	133	2,717	12·00	21·60	19·56	20·04	19·44

Age.

DIVISIONS.	DISTRICTS.	Deaths.										Ratio per 1,000 of population per annum.									
		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
BURDWAN	Burdwan	344	105	80	80	139	214	227	193	149	199	146·28	9·60	5·76	7·08	13·56	9·96	13·24	15·12	18·36	39·00
	Bankura	328	136	74	64	105	144	132	105	98	186	145·16	13·32	5·88	7·08	13·32	9·60	10·80	13·12	18·24	39·96
	Birbhum	460	98	41	34	61	110	130	113	83	154	330·72	14·64	4·80	5·04	10·92	9·72	13·72	15·60	17·16	39·96
	Midnapore	649	386	203	131	213	431	481	357	320	478	124·36	16·80	6·96	6·36	11·16	10·92	14·76	18·24	26·76	41·64
	Hughli	149	67	55	22	49	135	136	128	94	174	105·36	13·56	9·60	4·20	9·84	12·48	15·24	20·28	23·52	56·40
	Serampore	59	55	18	9	24	55	60	49	42	84	70·56	20·64	6·36	3·48	9·12	9·36	12·36	14·28	19·92	51·72
	Total (Hughli including Serampore).	208	122	73	31	73	190	196	177	136	258	92·52	16·08	8·52	3·96	9·60	11·40	14·16	18·24	22·32	54·84
PRESIDENCY	Howrah	215	127	65	50	41	71	65	101	46	156	137·16	22·44	8·40	9·72	8·52	6·96	8·28	19·92	14·64	48·24
	24-Pergunnahs	335	265	196	101	130	246	190	195	158	305	91·20	16·56	10·44	7·56	11·40	9·48	9·12	14·64	19·68	36·24
	Nuddea	362	204	131	100	123	176	179	172	156	254	113·88	12·00	6·12	6·84	12·12	8·04	9·36	12·36	17·40	29·04
	Jessore	434	382	276	161	198	319	277	259	214	347	101·04	19·92	11·40	9·84	15·96	11·76	12·60	18·60	20·40	35·16
	Murshidabad	325	159	122	82	78	160	171	132	120	227	139·92	13·44	8·04	8·04	9·48	9·36	11·64	12·72	18·60	35·04
	Khulna	236	247	187	90	77	220	158	150	113	259	94·20	23·16	14·76	9·54	9·84	13·80	13·72	17·76	21·24	49·68
RAJSHAHYE	Dinajpur	310	337	252	181	212	577	479	363	216	296	106·20	23·16	11·88	14·52	21·72	23·64	25·32	29·64	33·40	47·64
	Rajshahye	358	385	257	152	160	310	311	195	157	187	136·92	28·32	14·28	13·56	18·36	16·08	19·32	18·24	26·40	31·80
	Rungpore	426	316	261	202	263	567	591	495	308	386	99·72	15·72	9·96	12·12	20·64	19·32	21·00	27·84	28·08	42·00
	Bogra	234	177	125	62	56	136	117	115	85	136	183·12	21·96	12·36	10·20	11·28	13·08	13·32	21·00	27·96	44·28
	Pabna	259	343	268	216	206	212	180	168	117	237	85·80	22·80	15·12	20·52	26·16	12·48	11·88	16·56	19·20	32·64
	Darjiling	64	98	47	44	44	102	100	40	38	35	207·00	72·24	30·12	33·60	39·96	35·28	46·56	35·04	62·88	60·24
	Julpaiguri	356	167	95	67	68	206	203	182	118	144	264·48	28·92	12·84	12·08	19·44	25·56	25·68	37·20	41·76	51·96
DACCA	Dacca	374	390	196	113	126	229	269	200	157	502	76·44	15·60	6·96	5·88	9·24	8·16	11·52	12·84	19·92	45·24
	Faridpore	215	235	148	96	86	159	162	131	152	253	63·60	13·08	7·20	6·60	8·52	7·08	8·64	10·68	18·48	30·96
	Backerganj	790	616	296	120	107	184	245	222	227	476	203·89	29·64	12·36	7·32	7·80	6·48	11·28	15·60	25·20	57·72
	Mymensing	574	660	451	257	281	521	494	441	340	677	93·28	19·20	10·56	9·24	13·56	12·24	14·16	19·92	23·16	47·52
CHITTAGONG	Chittagong	278	301	211	93	86	212	163	136	131	296	100·92	24·48	17·04	8·28	10·68	15·12	14·16	16·68	23·28	57·60
	Noakhali	363	485	272	93	90	118	122	106	107	264	187·08	51·84	24·72	12·48	15·48	10·80	13·80	18·12	27·72	73·68
	Tipperah	435	339	197	113	128	210	188	159	157	330	147·36	19·44	9·96	8·28	12·00	10·08	11·16	14·28	22·80	50·28
PATNA	Patna	706	1,105	532	268	193	535	461	486	427	629	205·08	62·52	27·60	19·20	20·40	21·96	21·60	31·08	40·92	58·68
	Gya	650	618	299	171	129	396	357	399	362	572	182·28	26·64	12·24	9·72	11·04	13·44	12·36	21·12	30·48	54·12
	Shahabad	554	528	248	137	103	330	368	374	296	502	148·08	25·80	10·68	8·04	9·60	12·00	14·76	22·68	29·64	47·40
	Mozufferpore	390	841	448	289	161	574	567	521	486	538	105·24	30·96	13·44	13·44	11·52	16·68	17·68	22·92	34·32	41·76
	Durbhanga	359	1,020	674	361	244	719	692	594	575	596	85·56	31·80	11·16	8·52	11·16	14·64	14·40	17·28	29·40	62·64
	Saran	593	744	314	170	138	441	422	347	345	726	132·84	33·84	26·04	35·28	33·84	33·36	42·24	51·72	72·00	
	Chumparun	521	928	687	381	337	816	757	632	469	574	141·36	45·12	21·00	15·00	13·56	17·88	16·08	27·12	35·76	66·96
BHAGULPORE	Monghyr	618	950	525	256	153	466	390	463	363	631	201·12	34·08	13·48	10·80	11·40	15·72	18·48	18·96	30·24	49·80
	Bhagulpore	604	654	325	191	135	441	469	302	273	326	196·56	13·08	8·88	9·84	12·60	14·40	15·84	21·72	30·36	39·48
	Purneah	207	234	212	156	144	374	386	341	254	306	65·64	26·04	9·36	10·44	13·20	14·52	14·28	15·84	23·76	40·56
	Maldah	134	182	85	64	66	141	120	89	75	146	31·12	12·72	5·52	6·96	12·24	9·96	11·76	15·24	18·24	34·20
	Soonthal Pergunnahs	105	116	193	207	165	120	220	131·40	12·72	7·80	6·72	12·24	11·52	14·28	19·06	27·36	44·88			
ORISSA	Cuttack	312	242	133	109	140	293	287	255	264	422	158·16	13·08	7·80	6·72	12·24	11·52	14·28	19·06	27·36	44·88
	Poori	495	248	176	78	87	204	184	205	167	250	220·20	14·16	7·92	9·60	28·08	14·88	16·56	26·52	36·48	60·60
	Balasore	226	120	66	36	72	201	272	195	187	265	178·32	12·60	6·12	4·80	12·84	15·24	25·92	27·84	37·92	64·88
CHOTA NAGPORE.	Hazaribagh	377	135	94	78	87	204	184	205	167	250	220·20	14·16	7·92	9·60	28·08	14·88	16·56	26·52	36·48	60·60
	Lohardugga	402	252	104	70	54	149	174	199	145	250	138·84	15·72	6·36	9·72	12·72	13·80	18·36	26·76	42·48	51·24
	Singbhum	479	314	143	148	123	307	343	295	270	278	134·88	15·72	6·36	9·72	12·72	13·80	18·36	26·76	42·48	51·24
	Manbhum	95	69	50	45	39	73	82	91	73	91	130·44	13·32	8·04	10 44	12·24	11·76	15·24	27·84	38·88	55·92
	TOTAL FOR THE PROVINCE.	17,103	16,547	9,700	5,820	5,723	12,775	12,463	11,051	9,258	14,559	132·48	24·24	11·76	10·32	13·68	13·80	15·60	20·76	28·44	47·16

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 10th September 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 30th August 1890.

Births.

The births registered during the week ending with Saturday, the 30th August 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 19· per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	26·5	22·8	20·1	21·5	22·8	22·7	19·0

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 9th August 1890.	16th August 1890.	23rd August 1890.	30th August 1890.	Towns.	Weeks ending— 9th August 1890.	16th August 1890.	23rd August 1890.	30th August 1890.
Burdwan	13·7	15·3	16·8	27·5	Narainganj	16·6	33·1	16·6	13·4
Midnapore	13·9	12·4	18·6	17·0	Chittagong	4·7	16·4	9·4	4·7
Hughli and Chinsurah	16·4	6·6	14·8	29·5	Comillah	11·5	11·6	19·3	34·7
Serampore	23·6	23·6	13·7	31·4	Patna City	15·3	13·6	15·3	10·1
Utterpara	18·9	9·4	37·7	9·4	Gya	21·9	28·7	31·4	26·0
Howrah	14·3	15·3	21·8	17·2	Arrah	20·3	26·3	41·9	16·7
Bali	7·0	7·0	21·1	14·0	Mozufferpore	17·0	18·2	18·2	9·7
Krishnagar	11·4	13·3	15·9	11·4	Durbhanga	20·9	18·1	18·9	37·0
Ranaghat	24·0	6·0	12·0	.....	Chupra	2·0	12·1	18·1	4·0
Santipore	17·5	14·0	14·0	7·0	Bhagulpore	23·6	25·3	24·4	25·3
Jessore	6·1	.....	12·2	.....	Monghyr	38·9	40·7	37·1	28·0
Rampore Beauleah	15·8	36·9	34·2	42·6	Purneah	13·9	6·9	...	10·4
Darjiling	37·0	23·2	88·9	133·4	Poori	12·6	6·3	12·6	4·2
Dacca	14·9	17·5	10·4	16·9	Total ...	17·4	18·7	20·7	19·0

It will be seen that last week the highest birth-rate was returned from Darjiling (133·4), and the lowest from Chittagong (4·). No births were registered during the week in Ranaghat and Jessore towns.

Deaths.

The deaths registered during the week under review correspond to an annual rate of 22·9 per 1,000 of the population. The rate of the week is 10· below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	44·5	28·5	28·2	35·2	28·2	32·9	22·9

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 9th August 1890.	16th August 1890.	23rd August 1890.	30th August 1890.	Towns.	Weeks ending— 9th August 1890.	16th August 1890.	23rd August 1890.	30th August 1890.
Burdwan	13·7	10·7	16·8	24·4	Narainganj	13·4	16·6	24·3	13·4
Midnapore	15·5	17·0	23·2	9·3	Chittagong	9·4	21·1	16·4	9·4
Hughli and Chinsurah	18·1	21·3	19·7	36·1	Comillah	7·7	23·1	23·0	11·6
Serampore	31·0	33·4	40·1	33·4	Patna City	20·1	15·2	20·4	10·2
Utterpara	9·4	37·7	18·9	28·2	Gya	23·7	34·7	23·8	34·7
Howrah	20·1	19·5	17·8	19·5	Arrah	29·3	13·2	19·0	9·4
Bali	19·0	24·6	28·1	51·3	Mozufferpore	23·1	20·7	25·5	19·5
Krishnagar	11·4	11·4	15·1	9·5	Durbhanga	24·6	27·5	14·9	44·8
Ranaghat	24·0	12·0	12·0	12·0	Chupra	8·0	15·1	16·1	11·1
Santipore	10·5	14·0	28·0	6·9	Bhagulpore	13·7	24·4	13·6	13·6
Jessore	12·2	18·4	24·1	18·4	Monghyr	28·9	21·7	23·0	21·7
Rampore Beauleah	21·0	24·3	26·3	21·0	Purneah	26·1	13·9	24·3	20·8
Darjiling	66·7	66·7	37·0	44·5	Poori	25·1	25·2	62·9	25·2
Dacca	25·2	20·1	24·7	20·1	Total ...	25·2	23·2	26·2	22·9

It will be seen that last week the highest mortality occurred in the town of Gya (58·7) and the lowest in Arrah (8·4).

Measured by last week's mortality, the highest annual death-rates from the following registered death causes were as follows:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Gya	14 3	Gya	26·0	Gya	17·0
Durbhanga	8·6	Bali	24·6	Poori	14·7
Mozufferpore	6·1	Durbhanga	20·5	Serampore ...	11·8
Chupra	6·0			Hughli and Chinsurah ...	11·5
Dacca	3·2				
Patna City	2 3				

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3· from cholera, against 3·7 per 1,000 in the preceding week; ·1 from small-pox, against the same ratio; 9·4 from fever, against 10·5; 4·3 from bowel-complaints, against 2·7; ·3 from injury, against ·4; and 5·8 from other causes, against 7·4 in the preceding week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	21·9	Christians ...	37·4	Under 1 year ...	190·5
Females	23·7	Hindus ...	24·7	1 and under 5 years ...	34·7
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	92	Mahomedans ...	18·0	5 „ 10 „ ...	12·2
				10 „ 15 „ ...	11·3
				15 „ 20 „ ...	16·7
				20 „ 30 „ ...	11·8
				30 „ 40 „ ...	13·4
				40 „ 50 „ ...	17·0
				50 „ 60 „ ...	26·8
				60 years and upwards ...	51·4

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 15th September 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 30th August 1890.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.															Sex.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.											
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS. Males.	DEATHS. Females.	RATIO PER 1,000 OF POPULATION PER ANNUM. Males.	RATIO PER 1,000 OF POPULATION PER ANNUM. Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	6	12	18	9·2	13·3	27·5	50	..	...	10	4	...	2	16	...	...	15·3	6·1	...	3·0	24·4	16·8	7	9	20·2	29·2	69
Midnapore ...	Midnapore ..	16,927	16,633	33,560	4	7	11	6·2	10·8	17·0	57	...	...	3	2	...	1	6	...	...	4·6	3·1	...	1·5	9·3	23·2	5	1	15·4	3·1	496
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	10	8	18	16·4	13·1	29·5	125	...	...	12	3	...	7	22	...	...	19·7	4·9	...	11·5	36·1	19·7	9	13	29·5	42·7	69
Serampore ...	Serampore ...	13,559	12,937	26,496	6	10	16	11·8	19·6	31·4	60	...	...	8	3	...	6	17	...	...	15·7	5·9	...	11·8	33·4	49·1	7	10	26·8	40·3	66
	Utterpara	3,946	2,464	5,510	1	...	1	9·4	...	9·4	No female birth.	...	...	1	2	...	...	3	...	...	9·4	18·9	...	...	28·3	18·9	2	1	34·1	21·1	161
Howrah ...	Howrah	53,153	37,660	90,813	12	18	30	6·9	10·3	17·2	66	3	...	10	11	...	10	34	1·7	...	5·7	6·3	...	5·7	19·5	17·8	21	13	20·5	18·0	113
	Bali	7,836	6,979	14,815	3	1	4	10·5	3·5	14·0	300	...	...	7	1	...	1	9	...	...	24·6	3·5	...	3·5	31·6	28·1	5	4	33·2	29·8	111
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	3	3	6	5·7	5·7	11·4	100	...	...	3	2	...	...	5	...	...	5·7	3·8	...	...	9·5	15·1	3	2	11·8	7·3	161
	Ranaghat	4,028	4,655	8,683	...	...	...	...	...	...	...	...	...	1	...	...	1	2	...	...	6·0	...	...	6·0	12·0	29·9	1	1	12·9	11·2	115
	Santipore	13,708	15,979	29,687	1	3	4	1·7	5·3	7·0	33	1	...	4	...	...	...	5	1·7	...	7·0	...	...	...	8·8	26·3	...	5	...	16·3	No male death.
Jessore ...	Jessore	4,830	3,665	8,495	...	...	...	...	...	...	...	...	...	3	...	...	...	3	...	...	18·4	...	...	...	18·4	55·1	1	2	10·8	28·4	38
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	6	10	16	15·8	26·2	42·0	60	...	...	3	1	1	3	8	...	...	7·9	2·6	2·6	7·9	21·0	26·3	6	2	29·0	11·5	252
Darjiling ...	Darjiling	4,579	2,439	7,018	9	9	18	66·7	66·7	133·4	100	...	...	1	2	..	3	6	...	...	7·4	14·8	...	22·2	44·5	37·0	4	2	45·4	42·6	106
Dacca ...	Dacca	42,782	37,379	80,161	16	10	26	10·4	6·5	16·9	160	5	1	8	12	...	5	31	3·2	·6	5·2	7·8	...	3·2	20·1	24·7	20	11	24·3	15·3	158
	Naraingani ...	7,605	4,956	12,561	2	1	3	8·3	4·1	12·4	200	...	...	...	3	...	...	3	...	...	...	12·4	...	...	12·4	24·8	2	1	13·7	10·5	130
Chittagong ...	Chittagong ...	13,340	8,790	22,130	2	...	2	4·7	...	4·7	No female birth.	...	...	1	1	..	2	4	..	...	2·3	2·3	...	4·7	9·4	16·4	3	1	11·7	5·9	198
Tipperah ...	Comillah	8,153	5,353	13,506	4	5	9	15·4	19·3	34·7	80	...	...	3	...	...	...	3	...	...	11·6	...	...	...	11·6	26·9	2	1	12·8	9·7	132
Patna	Patna City ...	78,762	81,475	160,237	19	12	31	6·2	3·9	10·1	159	7	...	15	9	1	18	50	2·3	...	4·9	2·9	·3	5·8	16·2	20·4	19	31	12·5	19·8	63
Gya	Gya	38,390	37,831	76,121	16	22	38	10·9	15·0	26·0	72	21	...	38	1	1	25	86	14·3	...	26·9	·7	·7	17·0	58·7	66·3	42	44	57·0	60·5	94
Shahabad ...	Arrah	20,960	22,505	43,465	10	4	14	11·9	4·8	16·7	250	2	...	4	...	...	1	7	2·4	...	4·8	...	..	1·2	8·4	12·0	6	1	14·9	2·3	647
Mozufferpore	Mozufferpore ...	23,684	19,058	42,742	4	4	8	4·3	1··	9·7	100	5	...	3	5	1	2	16	6·1	...	3·6	··	1·2	·4	19·5	25·5	8	8	18·0	21·2	84
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	24	23	47	18·9	18·1	37·0	164	11	1	26	11	...	8	57	8·6	·8	20·5	8·6	...	6·3	44·8	14·9	26	31	40·0	49·9	80
Saran	Chupra	25,116	26,554	51,670	...	4	4	...	4·0	4·0	No male birth.	6	...	2	...	...	3	11	6·0	...	2·0	...	...	3·0	11·1	16·1	2	9	4·1	17·6	23
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	19	9	28	17·2	8·1	25·3	211	...	...	12	4	1	4	21	...	...	10·9	3·6	·9	3·6	19·0	12·6	13	8	22·8	15·0	152
Monghyr ...	Monghyr	28,154	29,366	57,520	16	15	31	14·5	13·5	28·0	106	...	...	7	8	1	8	24	...	...	6·3	7·2	·9	7·2	21·7	23·6	10	14	18·5	24·8	74
Purneah ...	Purneah	8,468	6,553	15,016	1	2	3	3·5	6·9	10·4	50	...	...	5	...	...	1	6	...	...	17·3	...	...	3·5	20·8	24·2	1	5	6·1	39·7	15
Poori	Poori	13,247	11,537	24,784	...	2	2	...	4·2	4·2	No male birth.	...	...	3	2	...	7	12	...	...	6·3	4·2	...	14·7	25·2	42·0	9	3	35·3	13·5	261

MORTALITY ACCORDING TO—

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class. Deaths among—					Class. Ratio per 1,000 of Population per annum.					Age. Deaths.										Age. Ratio per 1,000 of Population per annum.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	14	2	...	...	...	30·7	10·1	...	...	1	2	2	...	1	1	1	1	2	5	78·8	46·1	44·6	...	16·6	6·6	7·5	11·8	42·4	175·4
Midnapore ...	Midnapore ...	...	5	1	...	...	...	10·0	7·2	...	...	...	...	...	...	2	...	...	2	1	1	...	...	...	...	32·9	...	...	27·9	25·2	28·4
Hughli ...	Hughli and Chinsurah	...	19	4	...	...	...	37·0	33·7	...	...	1	2	...	2	1	6	2	4	2	2	64·8	46·9	...	41·9	20·7	50·3	18·2	49·9	40·0	50·2
Serampore ...	Serampore ...	...	15	2	...	...	...	30·9	110·9	...	...	5	2	1	2	..	1	2	1	2	1	363·2	57·6	20·7	46·8	...	9·7	20·9	15·4	54·3	37·4
	Utterpara	...	3	...	...	...	...	29·3	...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	108·6	236·4	...	...	...	...	...
Howrah ...	Howrah	1	33	1	...	...	27·5	24·4	2·5	...	...	6	5	1	2	2	5	4	4	4	2	151·2	46·9	8·3	7·9	14·2	11·5	10 8	17·7	37·9	27·7
	Bali	...	9	...	...	...	...	34·9	...	...	...	1	1	2	...	...	1	1	1	...	2	143·6	52·1	97·6	.	...	15·5	18·6	26·9	...	142·1
Nuddea ...	Krishnagar ...	...	4	1	...	...	...	11·2	6·3	...	...	1	...	...	...	...	...	...	2	1	1	104·8	...	...	...	...	...	...	31·9	24·7	30·1
	Ranaghat	...	2	...	...	..	...	14 2	...	...	.	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	34·5	41·7	...	...	...
	Santipore	...	4	1	...	...	...	10·0	5 8	...	...	2	...	...	...	...	...	...	..	...	3	123·1	...	...	...	...	...	...	...	...	79·4
Jessore ...	Jessore	...	3	...	...	...	...	34 6	...	...	...	1	...	...	..	1	...	...	1	...	...	268·0	...	...	...	71·0	...	...	49·5	...	...
Rajshahye ...	Rampore Beauleah	...	3	5	...	...	...	15·7	26·5	...	...	3	1	1	1	...	...	...	1	1	...	384·2	36·7	25·0	28 9	...	...	...	21·2	41·9	...
Darjiling ...	Darjiling	1	5	...	...	...	325·0	56·6	...	...	...	1	3	...	...	...	1	...	...	1	...	429·8	242·6	...	...	...	26·0	...	...	213·1	...
Dacca	Dacca	...	23	8	...	..	...	29·7	10·6	...	...	2	2	1	2	3	4	2	5	5	5	54·6	14·1	5·2	13·1	21·4	13·6	8·9	31·0	54·9	46·7
	Naraingunj ...	...	2	1	...	...	...	16·4	8·4	...	...	...	2	...	...	...	1·	...	...	...	...	..	91·2	...	...	...	19·5	...	...	...	...
Chittagong ...	Chittagong ...	...	2	2	...	...	...	17·9	6·8	...	...	1	...	...	...	...	...	2	..	...	1	92·4	...	...	...	...	...	31·2	...	...	65·3
Tipperah ...	Comillah	...	1	2	...	...	...	8·7	14·1	...	...	...	1	..	1	...	...	...	1	...	...	...	39·8	...	35·6	...	...	...	39 6	...	...
Patna	Patna City ...	...	40	10	...	...	...	17·5	12·7	...	...	9	11	3	3	2	7	2	2	3	8	108·6	39·2	9·3	10·8	9·3	12·6	4·5	5·5	11·0	30·1
Gya ...	Gya	1	63	22	...	...	2,363·6	54·6	71·2	...	...	20	9	6	2	3	9	8	5	6	18	581·0	73·7	41·6	15·5	29·8	31·8	32·7	26·6	47·5	181·9
Shahabad ...	Arrah	...	4	3	...	...	...	6·7	12·6	...	...	2	1	1	...	1	...	...	..	...	2	80·7	11·7	10·1	...	16·2	...	...	...	...	36·1
Mozufferpore ...	Mozufferpore ...	...	11	5	...	...	...	19·0	20·8	...	...	4	4	1	1	2	...	3	...	1	...	217·8	51·5	11·6	13·1	34·3	...	22·4	...	16·0	...
Durbhanga ...	Durbhanga ...	...	37	20	...	...	...	39·7	59·2	...	...	11	8	3	4	1	5	6	5	9	5	367·4	54·7	19·9	37·4	12·9	19·5	28·0	34·9	106·7	81·4
Saran	Chupra	...	11	...	...	...	...	14·4	...	...	...	2	2	...	...	...	2	1	2	...	2	73·7	20·1	...	...	...	11·3	6·7	17·1	...	30 6
Bhagulpore ...	Bhagulpore ...	...	15	6	...	...	...	19 6	15 1	...	...	3	2	4	1	2	1	4	3	1	...	130 7	19·2	35·4	8·3	24·9	4·6	22·4	24·8	12·2	...
Monghyr ...	Monghyr	2	19	3	...	...	437·0	22·1	12·4	...	...	13	4	...	...	2	...	3	1	...	1	455·2	33·4	...	...	27·5	...	17·5	8·2	...	14·5
Purneah ...	Purneah	...	3	3	...	...	...	17·0	27·6	...	...	2	...	...	..	1	1	2	...	...	...	367·5	...	...	...	52·3	15·8	36·5	...	...	...
Poori ...	Poori	...	12	..	...	...	...	25·4	...	...	...	2	...	..	...	...	2	1	...	1	6	343 2	...	...	...	...	19·7	12·8	...	23·3	172·8
	TOTAL ...	5	360	102	...	...	37·4	24 7	15·0	...	...	93	62	26	21	26	48	45	41	40	65	190·5	34·7	12·2	11·3	16·7	11·8	13·4	17·0	26·8	51·4

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 15th September 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of July 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
175	1. Grain ...	1,806	256	2,062	92,285	2,062	92,285
2	2. Cotton ...	7	.....	7	4,000	7	4,000
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
41	4. Salt ...	37	468	505	56,386	505	56,386
2	5. Piece-goods ...	.....	7	7	12,000	7	12,000
...	6. Metal ...	.....	.....	.....	.....	.....	.....
11	7. Building materials	5	72	77	271	15	101
560	8. Miscellaneous ...	272	442	714	72,523	704	72,450
10	9. Fuel ...	31	56	87	742	87	742
2 rafts	10. Timber ...	26 c. ft.	.....	26 c. ft.	17	26 c. ft.	17
2 „	11. Bamboos ...	225 „	.....	225 „	25	225 „	25
801 & 4 rafts	12. Total ...	2,158 & 251 c. ft.	1,301 c. ft.	3,459 & 251 c. ft.	2,38,249	3,387 & 251 c.ft.	2,38,006
740	13. Total of same month last year.	1,876	843	2,719	1,84,938	2,558	1,78,656

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	384	417	801
15. Total number of boats plying passenger No.	86	58	144
16. Total registered tonnage, cargo Tons	4,330	4,267	8,597
17. Total registered tonnage, passenger Tons	1049	704	1,753
18. Ton-mileage ...	180,489	169,107	349,596
19 Estimated value of cargo Rs.	1,09,080	1,29,127	2,38,207
20. Number of passengers No.	3,773	1,311	5,084
21. Rafts, bamboos C. ft.	225	.....	225
22. Do., bullahs „	26	.....	26
23. Estimated value of rafts Rs.	42	... ..	42
24. Tollage on boats „	3,180-7-0	2,966-1-3	6,146-8-3
25. Compounded tollage on boats Rs.	5-0-0	.....	5-0-0
26. Tollage on rafts „	1-15-0	0-2-0	2-1-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-1

	Rs.
Total tollage of month—24+25+26 ...	6,153
Total tollage of same month last year ...	5,184

Memorandum of Tollage.

	Rs.
1. Balance not recovered on the 1st of the month	4,873
2. Tollage per month ...	6,153
3. Total ...	11,026
4. Amount paid into treasury during the month ...	5,705
5. Balance due at the end of the month ...	5,320

**Abstract for the month of July* 1890 *as compared with the corresponding month of the previous year.*

	1890-91.		1889-90.	
	During the month.	To end of the month.	During the month.	To end of the m
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A.
Tollage	6,153 9 3	23,649 9 3	5,184 10 3	20,546 9

CALCUTTA,
The 15th September 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Ben

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 13th September 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 13th September 1890.			Week ending Saturday, the 14th September 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	400	80,025	1,439	361	73,825	1,187
Jute	163	58,510	1,049	141	49,175	1,241
Firewood	142	64,575	1,020	191	84,435	1,341
Other articles	913	2,29,125	3,076	1,007	2,15,850	3,154
Total ...	1,618	4,32,235	6,584	1,700	4,23,285	6,923

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	* 230,548	* 2,22,394 6 0	19,72,876 30	4,30,372 14 0	15,391 14 0	6,68,159 2 0	65,090½	68,347	133,437½
Or per mile of railway	.....	145 12 7	.....	282 1 11	10 1 5	437 15 11	.....	.....	.....
For previous 9 weeks of half-year	1,947,995	19,56,234 9 0	1,60,07,400 20	35,63,600 10 0	1,46,712 5 11	56,66,553 8 10	569,703½	665,653½	1,235,357½
Total for 10 weeks ...	2,168,543	21,78,628 15 0	1,79,80,277 10	39,93,979 8 0	1,62,104 3 10	63,34,712 10 10	634,794½	734,000½	1,368,795
Comparison.									
Total for corresponding week of previous year	232,127½	2,59,252 2 5	20,56,853 10	4,23,220 0 0	15,579 15 7	6,98,052 2 0	66,568	77,089	143,657
Per mile of railway corresponding week of previous year ...	.....	169 15 1	.....	277 6 11	10 3 5	457 9 5	.....	.....	.....
Total to corresponding date of previous year	2,380,596	23,33,594 3 3	2,12,05,583 10	44,26,590 14 1	1,64,766 5 3	69,24,951 6 7	650,473	819,325	1,469,798

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic for Gya on account of "Aparpuckska."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 7th September 1889.			Receipts for week ending 6th September 1890.			Total receipts from 1st April 1889 to 7th September 1889.			Total receipts from 1st April 1890 to 6th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	6,98,682	458	1,525½	6,68,159	438	1,525½	1,89,51,702	540	1,525½	1,74,53,643	497	.....	14,98,059

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles r		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	T
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*9,196	*4,532 14 6	12,573 8	948 8 0	42 6 0	5,521 12 0	1,057	539	
Or per mile of railway	162½	79 4 0	220 0	16 8 9	0 11 10	96 8 7	.....	.....	
For previous 9 weeks of half-year	†84,506	†43,970 12 0	2,02,535 10	‡18,237 8 0	§398 0 0	61,619 15 0	8,712	5,336	1
Total for 10 weeks ...	93,802	47,503 10 0	2,15,099 10	19,203 11 0	434 6 0	67,141 11 0	9,769	5,875	1
Comparison.									
Total for corresponding week of previous year	20,604	12,476 14 10	35,676 0	1,551 14 0	42 5 0	14,107 1 10	1,694	548	
Per mile of railway corresponding week of previous year ...	360	218 2 0	449 0	27 10 6	0 11 10	246 8 4	.....	.....	
Total to corresponding date of previous year	116,489	61,842 1 4	5,25,536 30	23,961 15 0	410 11 9	86,215 12 1	11,342	7,484	1

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic for Gya on account of "Anporpoksha
† Added No. of passengers 558 and Rs. 1,061
‡ Ditto Mds. 15,848 ,, 297
§ Ditto ,, 26
} on account of differences between the approximate and audited returns to week ended 2nd Augus

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 7th September 1889.			Receipts for week ending 6th September 1890.			Total receipts from 1st April 1889 to 7th September 1889.			Total receipts from 1st April 1890 to 6th September 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	R
57½	14,101	247	57½	5,582	97	57½	3,00,212	152	57½	*1,93,886	147	.....	6,3

* Added Rs. 1,384 on account of difference between the approximate and audited figures to week ended 2nd August 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, *on* 22½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles r		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	To
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,322	4,287 4 0	6,260 10	207 3 0	7 0 0	4,501 7 0	924	46	
Or per mile of railway ...	.....	192 11 0	.....	9 5 0	0 5 0	202 5 0	.....	.....	
For previous 9 weeks of half-year	151,932	*37,140 10 0	†69,467 30	‡1,837 12 0	§33 14 0	39,013 5 0	8,000	426	8
Total for 10 weeks ...	169,254	41,427 14 0	45,728 0	2,035 0 0	60 14 0	43,523 12 0	8,924	470	9
Comparison.									
Total for corresponding week of previous year	14,347	3,436 5 8	5,734 30	184 13 0	1 0 0	3,613 4 8	915	51	
Per mile of railway corresponding week of previous year ...	.....	153 15 11	.....	8 5 0	0 0 6	162 5 7	.....	.....	
Total to corresponding date of previous year	171,545½	41,536 3 9	50,962 0	1,723 12 0	41 6 3	43,296 11 0	9,236	498	9

* Deducted No. of passengers 8,334 and Rs. 894
† Ditto Mds. 76 and added ,, 9
‡ Ditto ,, 0
} on account of differences between the approximate and audited returns to week ended 2nd August 1890.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 7th September 1890.			Receipts for week ending 6th September 1890.			Total receipts from 1st April 1889 to 7th September 1889.			Total receipts from 1st April 1890 to 6th September 1890.			Total increase in 1890.	Total decrease 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
[illegible]	3,613	162	22½	4,501	202	22½	1,35,944	240	22½	*1,39,372	251	3,427	.....

* Deducted Rs. 894 on account of difference between the approximate and audited figures to week ended 2nd August 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 30th August 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	118,220	51,380 0 0	7,61,330 0	1,93,330 0 0	19,300 0 0	2,64,010 0 0	22,864	37,582	60,446
Or per mile of railway	154	67 0 0	993 0	252 0 0	*3 0 0	327 0 0	.....	.....	.....
For previous 8 weeks of half-year	1,136,610	4,52,550 0 0	40,64,650 0	9,60,660 0 0	1,07,090 0 0	15,20,470 0 0	176,290	253,154	429,444
Total for 9 weeks ...	1,255,030	5,03,930 0 0	48,26,530 0	11,54,160 0 0	1,26,390 0 0	17,84,480 0 0	199,174	290,716	489,890
COMPARISON.									
Total for corresponding week of previous year	114,835	53,769 0 0	7,04,972 0	1,87,860 0 0	3,975 0 0	2,49,604 0 0	22,267	35,352	57,619
Per mile of railway corresponding period of previous year ...	154	71 0 0	942 0	251 0 0	*4 0 0	326 0 0	.....	.....	.....
Total to corresponding date of previous year	1,213,774	4,95,336 0 0	50,14,693 0	11,39,364 0 0	1,16,435 0 0	17,51,135 0 0	202,314	253,932	456,246

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 31ST AUGUST 1889.			RECEIPTS FOR WEEK ENDING 30TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 31ST AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,49,604	334	767	2,64,010	344	708	38,86,877	251	761	*41,03,095	245	2,16,518	.....

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,080	7,380 0 0	43,960 0	4,260 0 0	270 0 0	11,990 0 0	3,610	2,068	5,678
Or per mile of railway	177	59 0 0	351 0	34 0 0	2 0 0	96 0 0	.....	.....	.....
For previous 8 weeks of half-year	213,442	70,220 0 0	3,01,000 0	31,310 0 0	1,460 0 0	93,000 0 0	27,860	15,890	43,750
Total for 9 weeks ...	236,522	77,600 0 0	3,44,960 0	35,570 0 0	1,730 0 0	1,04,990 0 0	31,470	17,958	49,428
COMPARISON.									
Total for corresponding week of previous year	23,362	7,609 0 0	74,222 0	7,349 0 0	43 0 0	14,901 0 0	3,499	2,485	5,984
Per mile of railway corresponding period of previous year ...	187	61 0 0	594 0	58 0 0	.....	119 0 0	.....	.....	.....
Total to corresponding date of previous year	244,655	78,582 0 0	4,57,399 0	37,963 0 0	1,599 0 0	1,18,135 0 0	31,169	20,903	52,072

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 31ST AUGUST 1889.			RECEIPTS FOR WEEK ENDING 30TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 31ST AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,901	119	125	11,990	96	125	*2,07,262	166	125	*2,71,000	99	.....	36,262

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,880	4,880 0 0	16,030 0	1,290 0 0	70 0 0	6,240 0 0	2,414	690	3,1
Or per mile of railway	184	57 0 0	186 0	15 0 0	1 0 0	73 0 0	.....	.....	.....
For previous 8 weeks of half-year	112,720	36,540 0 0	96,610 0	9,260 0 0	1,020 0 0	46,820 0 0	18,656	5,322	23,9
Total for 9 weeks ...	128,600	41,420 0 0	1,12,640 0	10,550 0 0	1,090 0 0	53,060 0 0	21,070	6,012	27,0
Comparison.									
Total for corresponding week of previous year	15,922	4,697 0 0	16,046 0	1,774 0 0	424 0 0	6,895 0 0	2,553	961	3,5
Per mile of railway corresponding period of previous year	185	55 0 0	197 0	20 0 0	5 0 0	80 0 0	.....	.....	.....
Total to corresponding date of previous year	130,438	39,070 0 0	1,25,190 0	8,221 0 0	1,988 0 0	49,279 0 0	22,186	6,707	28,8

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 31st August 1889.			Receipts for week ending 30th August 1890.			Total receipts from 1st April 1889 to 31st August 1889.			Total receipts from 1st April 1890 to 30th August 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,895	80	86	6,240	73	86	1,23,558	65	86	*1,34,802	71	11,244	.....

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles ru		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Tot
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,070	910 0 0	4,600 0	220 0 0	20 0 0	1,150 0 0	580	170	7
Or per mile of railway	98	33 0 0	169 0	8 0 0	1 0 0	42 0 0	.....	.....	....
For previous 8 weeks of half-year	25,830	9,230 0 0	77,670 0	4,160 0 0	90 0 0	13,480 0 0	4,358	2,483	6,8
Total for 9 weeks ...	28,500	10,140 0 0	82,270 0	4,380 0 0	110 0 0	14,630 0 0	4,938	2,653	7,5
Comparison.									
Total for corresponding week of previous year	2,529	896 0 0	13,765 0	930 0 0	21 0 0	1,847 0 0	586	395	9
Per mile of railway corresponding period of previous year ...	93	33 0 0	505 0	34 0 0	1 0 0	68 0 0	.....	.....	....
Total to corresponding date of previous year	26,675	9,914 0 0	82,090 0	5,440 0 0	508 0 0	15,862 0 0	5,134	3,104	8,2

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 31st August 1889.			Receipts for week ending 30th August 1890.			Total receipts from 1st April 1889 to 31st August 1889.			Total receipts from 1st April 1890 to 30th August 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,847	68	27¼	1,150	42	27¼	41,441	69	27¼	*40,638	68	.....	803

* Audited up to week ending 21st June 1890.

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 17th September 1890.

REGISTERED No. 29.] No. 39 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, SEPTEMBER 24, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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LIBERALITY OF SYED MAHOMED MEHDI HASSAIN KHAN, *ALIAS* BADSHAH NAWAB, OF PATNA CITY.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 17th September, 1890.

RESOLUTION.

READ—

A letter from the Commissioner of Patna, No. 499G, dated the 13th August last, and one from the Director of Public Instruction, No. 5038, dated the 5th September, 1890; regarding the offer of Syed Mahomed Mehdi Hassain Khan, *alias* Badshah Nawab, of Patna City, to found a scholarship and two prizes.

Syed Mahomed Mehdi Hassain Khan, *alias* Badshah Nawab, of Patna City, has offered to make over Government securities, of the nominal value of Rs. 2,000, to found a scholarship of Rs. 5 a month and two prizes of Rs. 10 each for award to Behari Mahomedan students of the Anglo-Arabic School in Patna in commemoration of the late visit of the Lieutenant-Governor to that school. The Lieutenant-Governor is pleased to accept the offer and tenders his thanks to the donor for his liberality. In accordance with the donor's wishes the scholarship and prizes will be designated "Badshah Nawab Bayley Scholarship and Prize," and the Collector of Patna is appointed to be the administrator of the fund.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Commissioner of Patna for information and for communication to the donor, and to the Director of Public Instruction for information.

Ordered also that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

REVISED PROSPECTUS OF THE FOREST SERVICE BRANCH OF COOPER'S HILL COLLEGE.

Circular No. 12-F.

Extract from the Proceedings of the Government of India, in the Revenue and Agricultural Department (Forests)—dated Simla, the 26th August, 1890.

Read the following Despatch from Her Majesty's Secretary of State for India, forwarding, with remarks, the revised "Prospectus of the Forest Service Branch of the Royal Indian Engineering College, Cooper's Hill":—

No. 40 (Revenue), dated London, 12th June, 1890.

From—Her Majesty's Secretary of State for India,
To—The Governor-General of India in Council.

I FORWARD 25 copies of the revised Prospectus of the Indian Forest Service Examination, which has been issued here. The alteration in the schedule of subjects for the entrance examination will take effect at and from the examination of 1891. But the extension of the Cooper's Hill Forest Course from two to three years will take effect with the candidates entering Cooper's Hill College in the autumn of 1890. Therefore the probationers of this year will not reach India until 1893, and no recruits will be sent out for the Forest Service in 1892.

2. With reference to article 16 of the Prospectus, I shall, when sending you lists of the recruits starting in 1893 and in subsequent years, inform your Government which of the probationers have been found qualified for the higher initial salary of Rs. 350 a month.

PROSPECTUS OF THE FOREST SERVICE BRANCH OF THE ROYAL INDIAN ENGINEERING COLLEGE, COOPER'S HILL.

(*Post Town, Staines. Railway Station, Egham. Telegraph Station, Englefield Green.*)

STAFF OF THE COLLEGE.*

President—General Sir Alexander Taylor, G.C.B., R.E.
Secretary—J. G. Whiffin, Esq., Paymaster-in-Chief, R.N., Retired.
Bursar—J. P. Pasco, Esq., R.N., Retired.
Chaplain—Rev. C. Croslegh, D.D.

Engineering Branch.

Assistant Professor of Engineering—A. H. Heath, Esq., Assoc. Mem. Inst. C.E.
Professor of Surveying—Major-General E. H. Courtney, R.E.
Instructor in Geometrical Drawing—T. H. Eagles, Esq., M.A., Assoc. Inst. C.E., F.R.I.B.A.
Lecturer in Accounts—J. C. Hurst, Esq.
Instructor in Freehand Drawing—Russell Dowson, Esq.

Mathematical Branch.

Professor of Mathematics—G. M. Minchin, Esq., M.A.

Natural Science Branch.

Professor of Chemistry—Herbert McLeod, Esq., F.R.S.
Professor of Physics—W. N. Stocker, Esq., M.A., Fellow of Brasenose College, Oxon.
Lecturer in Geology and Mineralogy—Professor P. M. Duncan, M.B., F.R.S.

Forestry Branch.

Principal Professor of Forestry—W. Schlich, Esq., Ph.D., F.L.S., late Inspector-General of Forests to the Government of India.
An Assistant Professor of Forestry.
Professor of Botany—H. Marshall Ward, Esq., M.A., F.R.S., F.L.S., Fellow of Christ's College, Cambridge.

* The Staff of the College is only given in so far as it concerns the Forest Service Branch.

Lecturer on Entomology—W. F. H. Blandford, Esq., M.A., Fellow of Christ's College, Cambridge.
Lecturer on Chemistry of Soils and Vegetation—A. H. Church, Esq., M.A., F.R.S.
Instructor in German—T. H. Dittel, Esq.

Director of Practical Study in Forestry on the Continent—Sir Dietrich Brandis, K.C.I.E., Ph.D., F.R.S., late Inspector-General of Forests to the Government of India.*

(The arrangements hereinafter described are subject to revision under the orders of the Secretary of State for India.)

1. The Royal Indian Engineering College is primarily maintained, under the orders of the Secretary of State for India in Council, for the education of candidates for the service of Government in the India Public Works, Telegraph, and Forest Departments; but it is open, to the extent of the accommodation available, to all persons desirous of following the course of study pursued in it.

India Forest Department Appointments.

2. The examination usually takes place in June of each year.

3. The number of candidates to be selected annually varies according to the requirements of the Forest Service in India: the figures as regards each particular year will be advertised from time to time. *In* 1891 *there will be* 12 *appointments offered for competition.*

4. Candidates for the Indian Forest Department are selected under the following arrangements:—

(*a*) An applicant must be a natural-born British subject, and must be above 17 and under 20 years of age on the 1st June of the year in which he competes for an appointment. He must be unmarried, and if he marries before reaching India he will forfeit his appointment.

(*b*) An applicant must send† to the Revenue Department of the India Office, on or before the 1st day of May of the year in which he proposes to compete—

(1) His name and parentage, a certificate or other satisfactory evidence of the date of his birth, and the written consent of parent or guardian that his name should be recorded as a candidate.

(2) A statement of the places of education at which he may have been since he was nine years old, accompanied by testimonials of good conduct during the last four years.

(*c*) Applicants will have to appear before a Medical Board‡ at the India Office, particular stress being laid upon good vision and hearing. A physical test will also be imposed, so as to ensure the selection of persons of active habits and powers of endurance.

(*d*) The applicants who have successfully passed the medical examination and the physical test will be required to undergo an examination before the Civil Service Commissioners§ in the following subjects (Classes I to III), marks being assigned as follows:—

Class I.—Obligatory Subjects.

	Marks.	
1. Mathematics (lower), viz., Algebra up to and including the Binomial Theorem; the theory and the use of Logarithms; Euclid, Books I to IV and VI; Plane Trigonometry up to and including the solution of Triangles; and Mensuration	2,500	In each of these subjects a candidate must obtain not less than one-third of full marks in order to qualify.
2. English composition	1,000	
3. German (400 for colloquial)	2,000	

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* Sir D. Brandis is not on the Staff of the College.

† There is no form of application; the documents specified in clauses (1) and (2) should be enclosed in a covering letter addressed to the Secretary, Revenue Department, India Office, London.

‡ With a view to prevent parents and guardians from incurring the inconvenience and expense of preparing candidates who may be physically unfit for the Forest Service, it is suggested that, before any such preparation is begun, candidates be submitted to examination by the medical adviser of the family, or any other qualified medical practitioner, with regard to the following points:—

1. A weak constitution.
2. Defective vision.
3. Impaired hearing.
4. The existence of any congenital defect.

It is to be understood that this private examination is merely suggested to lessen the chances of disappointment, and that it is by no means intended to take the place of, or to influence in any way, the official examination.

On the subject of the standard of eyesight required for the Indian Services, a pamphlet has been published, under the authority of the Secretary of State in Council, by Messrs. Churchill and Sons, 11, New Burlington Street.

§ A fee of 4*l.* is required, which can be paid by means of a stamp of that amount. Instructions on this point will be issued to candidates the day before the examination.

CLASS II.—OPTIONAL SUBJECTS.

		Marks.	
4.	Mathematics (higher), including Analytical Geometry, Conic Sections, Differential Calculus, Statics, and Dynamics	2,000	A candidate may take any two, but not more than two, of the optional subjects.
5.	French (400 for colloquial)	2,000	
6.	Latin	2,000	
7.	Greek	2,000	
8.	English History. There will be set: one general paper; one paper limited to a fixed period, of which due notice will be given	2,000	
9.	Botany, viz., the elementary parts of vegetable morphology, histology, and physiology, and the principles of a natural system of classification as illustrated by the more important British natural orders. Candidates will be required to describe plants in technical language. Questions will not be set on vegetable palæontology or on the geographical distribution of plants	2,000	
10.	Chemistry, viz., the elements of Inorganic Chemistry ...	2,000	
11.	Physics: elementary properties of Electricity, Magnetism, Heat, Light, and Sound	2,000	
12.	Physical Geography and Geology, chiefly economic; including the recognition of the more familiar minerals and rocks, and their properties and uses ...	2,000	

CLASS III.—ADDITIONAL SUBJECTS.

13.	Freehand Drawing	500	Either or both of these subjects may be taken in addition to the obligatory and the two optional subjects.
14.	Geometrical Drawing	300	

(*e*) From the competitors who attain the abovementioned minima of marks in obligatory subjects and satisfy the requisite conditions in other respects, the Secretary of State will select candidates, in order of merit, as probationers to enter the college, where they will be further trained for the Forest Service of India.

(*f*) If the full number of competent probationers required in any year cannot be obtained from the persons so examined, the Secretary of State reserves a discretion to fill up the deficiency by selecting any other person or persons who may satisfy the authorities of the College that he or they are properly qualified to become probationers for the Forest Service.

5. The course of study for candidates for the India Forest Service extends over about 34 months divided into nine terms. During the first eight terms the candidates will prosecute their studies at the College, and during the remaining term they will be instructed, under suitable supervision, in such British or Continental forests as may be selected for the purpose. Excursions will also be made for purposes of instruction, both during term time and during part of the vacations. The cost of all such tours or excursions is borne by the Secretary of State (see paragraph 9).

6. Each annual session begins in September, and is divided into three terms, with vacations of about four weeks at Christmas, two weeks at Easter, and eight weeks in the summer.

7. A charge of 61*l.* for each of the first eight terms and 60*l.* for the ninth term is made for each student: the amount must be paid terminally in advance to the Bank of England. Receivable orders, with full directions as to the mode of payment, will be forwarded from the India Office to the parents or guardians shortly before the fees fall due. A student will not be allowed to come into residence until his fee has been paid.

8. A deposit of 5*l.* is required to be paid by each student on admission to the College as caution money, to cover charges incurred by him for damage to books, instruments, &c., or any College bills outstanding on leaving the College. Any balance over and above such charges will be repaid. This deposit is to be paid with the fee for the first term, making the total payment on that occasion 66*l.*

9. The foregoing payments cover all charges for tuition, board according to the College tariff, lodging with washing and ordinary medical attendance while in residence at the College. When students are on tour and during the course of practical instruction, whether in Great Britain or on the Continent, the Secretary of State will defray the expenses of (1) board, lodging, and washing (the maximum expenditure on such account being 10*s.* per diem), (2) travelling expenses, and (3) fees to local Forest Officers, &c.

Students are required to provide their own class books and drawing instruments. Drawing paper, drawing boards, and surveying instruments are provided by the College.

10. The prescribed course of study at present comprises the following subjects:—

I.—*Engineering.*

1. Geometrical Drawing.
2. Freehand Drawing.
3. Surveying.
4. Road-construction.

II.—*Natural Science.*

1. Inorganic Chemistry.
2. Chemistry of Soils and Vegetation.
3. Physics.
4. Geology and Mineralogy.
5. Entomology.
6. Botany.

III.—*Forestry*, theoretical and practical.

IV.—*Miscellaneous.*

1. German.
2. Elements of Law.
3. Accounts.
4. Drill and gymnastics

11. Every student is required to conform to the College rules, to exhibit due diligence in his studies throughout the course, and to give evidence of satisfactory progress in such manner as may be required: failing which, or in the evident of serious misconduct, he will be liable to be removed from the College.

12. During the course of study the proficiency of the students will be tested by periodical examinations, and on the termination of their studies there will be a final examination. Each student may also, at the discretion of the Secretary of State for India, be required to appear before the Medical Board at the expiration of the first year of residence at the College, and should the result be unsatisfactory he cannot claim to be allowed to complete the course.

13. The subjects enumerated in paragraph 10 are grouped in certain main branches of study, and a fixed minimum of qualification is required in each branch, as well as a certain minimum for all branches taken together. Students who obtain these minima will receive the College diploma in Forestry.

14. Candidates who have obtained this diploma, and are found to be of sound constitution and free from physical defects which would render them unsuitable for employment in the Forest Department (the final decision on which points will rest with the Secretary of State for India), will be appointed Assistant Conservators in the Forest Department of India in the order of their standing at the end of the final examination. They will be allowed, before leaving the College, to choose the provinces in which they desire to be first employed, according to the standing in which they pass out of the College. But this choice can only be exercised according to the available vacancies in the different provinces, and on the understanding that officers are at all times liable to be transferred from one province to another at the pressure of the Government of India.

15. Within a month of his nomination as Assistant Conservator, each nominee must sign Articles of Agreement describing the terms and conditions of his appointment. He must embark for India when required to do so by the Secretary of State, and will be provided with a free passage. Failure to embark at the stated time will, in the absence of satisfactory explanation, lead to forfeiture of appointment.

16. The pay of an Assistant Conservator of Forests will commence from the date of arrival in India. Probationers who acquit themselves creditably during their course at Cooper's Hill College will begin on a salary of Rs. 350 a month; those who fall short of the required standard, though they may have obtained the College diploma in Forestry, will begin on Rs. 250 a month; and this difference of salary will continue until the first Departmental Examination is passed in India. It will rest with the President of the College, in consultation with the Principal Professor of Forestry, to decide which probationers, if any, have failed to qualify for the higher initial salary.

17. Promotion, leave, and pension will be regulated by the rules of the service for the time being. Further information on this point can be obtained from the Revenue Secretary, India Office, London.

18. Every candidate, before proceeding to India, will be required to furnish to the President of the College satisfactory evidence of his competency in riding.

General Rules.

19. Chemical, physical, and botanical laboratories, a forestry museum, a forest nursery, a library, and gymnasium are attached to the College. Means are also provided for the practice of photography. Students making use of the laboratories are supplied with the needful apparatus.

20. The responsibility for the discipline and management of the College and for the superintendence of the studies is vested in the President, under the control of the Secretary of State for India.

21. The students are distributed in divisions, under personal charge of one of the Professors or Instructors selected by the President; such tutor being responsible for exercising the proper degree of personal supervision over each student in his division, and for conducting necessary correspondence with the student's parents or guardians.

22. Each student residing in the College is provided with a separate room, and with fuel and light, also with the necessary attendance. Furniture and bedding are supplied by the College, but each student is required to provide his own towels and bed linen. Meals are

taken in hall. Wine and beer are not included in the ordinary fare, but can be obtained from the College cellar at fixed prices.

23. A chapel is attached to the College, which the students residing in the College are expected to attend, unless specially exempted.

24. Every student will be required to go through a course of gymnastics and also of military exercises, including the use of the rifle.

25. Students are required to wear academical dress, under such regulations as may be prescribed from time to time.

Students not nominated for the Indian Forest Service, but desirous of obtaining a Diploma in Forestry from Cooper's Hill College.

26. Students not nominated for the Indian Forest Service may be received into the College, as far as the available accommodation permits. Such students may pass through the course of instruction prescribed for the nominees of the Indian Forest Service, as detailed above, or they may be permitted to participate in the instruction given in certain subjects only. On attaining the prescribed minima of marks in the several branches of study and in totals as laid down above, they will receive, as the case may require, either the College Diploma in Forestry, or special certificates showing in what subjects they have followed the instruction and with what result.

27. Candidates who desire to be admitted under paragraph 26 may submit the necessary application at any time, but not later than the 15th day of June of the year named for admission, except with the special permission of the President. The application must be made on the prescribed forms, which can be obtained from the Secretary of the College.

28. Candidates whose applications are found satisfactory as to character and in other respects will be required to undergo an examination, to be held at the College, about the last week in June of the year for admission. The object of the examination will be to ascertain whether the candidate is qualified to follow the course of instruction with advantage (or certain parts of it, as the case may be). Candidates who do not come up to the required standard will not be admitted to the College.

The President may dispense with the whole or any portion of this examination in the case of a candidate who produces a University diploma, or other similar certificate granted by a recognized examining body.

29. Candidates admitted to the College under paragraph 26, who propose to pass through the full prescribed course of study, will be required to pay the same fees in every respect as those paid by the nominees for the Indian Forest Service. Candidates who do not become resident, and are admitted only to certain subjects of study, will be required to pay the fees which may be fixed in each special case in consideration of the extent of their studies. The candidates of both classes will be required to abide by the general rules of the College.

ORDER.—Ordered that a copy be forwarded for information to the Local Governments and Administrations noted in the margin, the Inspector-General of Forests, and the Comptroller and Auditor-General.

Bengal.	Assam.
North-Western Provinces and Oudh.	Coorg.
Punjab.	Ajmere.
Central Provinces.	Andaman Is.
Burma.	Hyderabad.

Ordered also that a copy be forwarded to the Foreign Department for communication to the Agent to the Governor-General in Baluchistan; and that these papers be published in the Supplement to the *Gazette of India*.

(True Extract.)
W. C. BENETT,
Offg. Secretary to the Government of India.

IRRIGATION OPERATIONS FOR RABI SEASON, 1889-90.

No. 1367I.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Irrigation.

Dated Calcutta, the 17th September 1890.

RESOLUTION.

READ—

Statements Nos. I, II, and III, showing irrigation operations of Canals in Bengal during the *rabi* season 1889-90.

OBSERVATIONS.—The area irrigated during the rabi season of 1889-90 was 60,553 acres against 106,883 acres in 1888-89 and 59,130 acres in 1887-88. Thus there was a decrease of 43·3 per cent. on the previous year, in which, however, the rabi season was one of unusual activity.

2. The decrease occurred almost entirely on the Sone and Sarun Canals. On the Midnapore Canal, where the supply of water during the rabi season cannot be guaranteed, 440 acres of boro rice were irrigated against 3,369 acres in the previous year. In Orissa there was an increase from 2,973 to 6,059 acres.

3. The details of increase or decrease in the area irrigated by each canal are given in the following comparative statement:—

Canal.		Rabi season.		More.	Less.
		1888-89.	1889-90.		
		Acres.	Acres.	Acres.	Acres.
Orissa ...	Taldunda	242	631	389	.....
	Kendrapara	2,563	5,272	2,709	.....
	High Level, Range I ...				
	High Level, Ranges II and III	168	156	.....	12
Midnapore		3,369	440	.....	2,929
Sone ...	Patna	11,432	7,319	.....	4,113
	Arrah	35,566	22,661	.....	12,905
	Buxar	50,227	23,915	.....	26,312
Sarun		3,316	159	.....	3,157
	Total ...	106,883	60,553	3,098	49,428

ORDER.—Ordered that a copy of this Resolution, and of the Statements Nos. I, II, and III, be submitted to the Government of India, in the Public Works Department, for information: also that copies be forwarded to the Commissioners of the Orissa, Burdwan, and Patna Divisions; the Collectors of Cuttack, Midnapore, Patna, Shahabad, Gya, and Sarun; the Superintending Engineers of the Orissa, South-Western, and Sone Circles; and the Examiner of Public Works Accounts, Bengal, for information.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, *Col.*, R.E.,

Secretary to the Government of Bengal.

No. I.—RABI STATEMENT.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE RABI SEASON, 1889-90.

Comparative Statement of Irrigation and Rainfall in Canal Districts of Bengal.

DISTRICT.	Area in acres.	Culturable acres.	AREA IRRIGATED.		1889-90 AS COMPARED WITH 1888-89.		RAINFALL FOR FOUR MONTHS.										REMARKS.
							November.		December.		January.		February.		Total.		
			1888-89.	1889-90.	Increase.	Decrease.	1888.	1889.	1888.	1889.	1889.	1890.	1889.	1890.	1888-89.	1889-90.	
			Acres.	Acres.	Acres.	Acres.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
Cuttack	Information not available.		2,835	5,964	3,129	.....	3·06	11·67	.....	0·18	0·03	0·07	0·90	.....	3 99	11·92	Average rainfall of eleven stations in the Cuttack district.
Balasore			138	95	.....	43	1·89	8·89	.....	.....	0·25	.....	0·35	0·15	2·49	9·04	Average rainfall at Bhuddruck and Acquapudda stations.
Midnapore ...			*3,369	*440	.....	2,929	0·08	3·93	.....	.....	1·62	.....	4·80	.....	6·50	3·93	
Hooghly			.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	No rain-gauge stations on the Tidal Reaches of the Midnapore Canal.
Gya	3,015,680	2,356,000	5,795	4,448	.....	1,347	0·80	.....	.....	.....	0·40	.....	0·53	.....	1·73	.....	Rainfall at Daudnagar station.
Patna	1,329,920	1,03?,000	5,637	2,871	.....	2,766	0·68	0·30	.....	.....	4·85	.....	3·42	.....	8 95	0·30	Rainfall at Bankipore station.
Shahabad	2,806,400	2,192,500	85,793	46,576	.....	39,217	0·47	0·18	.....	.....	1·64	.....	1·08	0 04	3·19	0·22	Rainfall at Arrah station.
Sarun	1,680,000	12,500	3,316	159	.....	3,157	0·25	1·57	.....	.....	2 60	.....	1·01	0 09	3·86	1·66	Rainfall at Sewan station.
Total ...	.....	.....	106,883	60,553	3,129	49,459	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	

* Boro rice.

CALCUTTA,

The 17th September 1890.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

No. II.—Rabi Statement.

IRRIGATION OPERATIONS OF FASL RABI, 1889-90.

Statement in acres of crops irrigated in Canal Districts.

Nature of crops.	Cuttack.	Balasore.	Midnapore.	Hooghly.	Gya.	Patna.	Shahabad.	Sarun.	Total.
Garden and orchards	159	.....	.....	.....	.....	.....	81	.....	240
Sugarcane	67	95	.....	.....	.....	.....	.....	.....	162
Cereals ... Wheat	.....	.....	.....	.....	794	256	20,632	.....	21,682
Cereals ... Barley	.....	.....	.....	.....	1,650	1,035	9,153	.....	11,818
Cereals ... Rice	1,825	.....	440	.....	.....	.....	.....	.....	2,265
Cereals ... Miscellaneous	28	.....	.....	.....	.....	.....	124	.....	152
Pulse ... Gram, &c.	19	.....	.....	.....	457	264	2,388	.....	3,128
Pulse ... Miscellaneous	469	.....	.....	.....	1,013	522	3,885	34	5,923
Fodder crops ... Grass, lucerne	.....	.....	.....	.....	.....	.....	.....	2	2
Fibres ... Cotton	3,011	.....	.....	.....	.....	.....	4	.....	3,015
Dyes ... Indigo	241	.....	.....	.....	.....	.....	.....	.....	241
Dyes ... Turmeric, &c.	43	.....	.....	.....	.....	.....	.....	.....	43
Drugs ... Opium	.....	.....	.....	.....	554	794	581	123	2,052
Drugs ... Tobacco, &c.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oilseeds ... Mustard, &c.	1	.....	.....	.....	.....	.....	634	.....	635
Oilseeds ... Castor	97	.....	.....	.....	.....	.....	.....	.....	97
Miscellaneous	4	.....	.....	.....	.....	.....	9,094	.....	9,098
Hot weather	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Rabi, 1889-90 ...	5,964	95	440	.....	4,448	2,871	46,576	159	60,553
Total Rabi, 1888-89 ...	2,835	138	3,369	.....	5,795	5,637	85,793	3,316	106,883

Calcutta,

The 17th September 1890.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

No. III.—Rabi Statement.

IRRIGATION OPERATIONS OF FASL RABI, 1889-90.

Statement in acres of crops irrigated by Canals in Canal Divisions.

Nature of crops.	Taldunda Canal.	Kendrapara Canal.	High Level Canal, Range I.	High Level Canal, Range II.	High Level Canal, Range III.	Midnapore Canal.	Patna Canal.	Arrah Canal.	Buxar Canal.	Sarun Canal.	Total.	Remarks.
	Mahanuddy.	Brahmini-Byturni.		Acquapada-Jajepore.		Cossye.	Eastern Sone.	Arrah.	Buxar.	Gunduck.		
Garden and orchards	49	99		11		.....	.....	80	1	.....	240	
Sugarcane	26	41		95		.....	.....	.....	.....	.....	162	
Cereals ... Wheat	.....	.....		.....		.....	1,050	6,411	14,221	.....	21,682	
Cereals ... Barley	.....	.....		.....		.....	2,665	8,284	869	.....	11,818	
Cereals ... Rice	2	1,773		50		440	.....	.....	.....	.....	2,265	
Cereals ... Miscellaneous ...	22	6		.....		.....	.....	124	.....	.....	152	
Pulse ... Gram, &c. ...	1	18		.....		.....	721	2,361	27	.....	3,128	
Pulse ... Miscellaneous ...	187	282		.....		.....	1,535	3,542	343	34	5,923	
Fodder crops Grass, lucerne ...	.....	.....		.....		.....	.....	.....	.....	2	2	
Fibres ... Cotton	314	2,697		.....		.....	.....	4	.....	.....	3,015	
Dyes ... Indigo	.....	241		.....		.....	.....	.....	.....	.....	241	
Dyes ... Turmeric, &c. ...	23	20		.....		.....	.....	.....	.....	.....	43	
Drugs ... Opium	.....	.....		.....		.....	1,348	522	59	123	2,052	
Drugs ... Tobacco, &c. ...	.....	.....		.....		.....	.....	.....	.....	.....	.....	
Oilseeds ... Mustard, &c. ...	1	.....		.....		.....	.....	633	1	.....	635	
Oilseeds ... Castor	3	94		.....		.....	.....	.....	.....	.....	97	
Miscellaneous	3	1		.....		.....	.....	700	8,394	.....	9,098	
Hot weather	.....	.....		.....		.....	.....	.....	.....	.....	.....	
Total Rabi, 1889-90 ...	631	5,272		156		440	7,319	22,661	23,915	159	60,553	
Total Rabi, 1888-89 ...	242	2,563		168		3,369	11,432	35,566	50,227	3,316	106,883	

Calcutta,

The 17th September 1890.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

No. I.—Annual Statement.

GOVERNMENT OF BENGAL, PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE YEAR 1889-90.

Comparative Statement of Irrigation and Rainfall for the years 1888-89 *and* 1889-90 *in Canal Districts of Bengal.*

District.	Area in acres.	Culturable acres.	Area irrigated.										Rainfall.		
			Kharif, 1889-90.			Rabi, 1889-90.			Whole year, 1889-90.						
			Total area.	In comparison with kharif, 1888-89.		Total area.	In comparison with 1888-89.		Total area.	In comparison with 1888-89.		Percentage of increase or decrease.	1888-89.	1889-90.	Percentage of increase or decrease.
				Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.		In.	In.	In.
Cuttack	Information not available.		132,830	1,945	...	5,964	3,129	...	138,794	5,074	...	(+)3·6	43·17	54·67	(+)26·6
Balasore			34,400	8,772	...	95	...	43	34,495	8,729	...	(+)25·3	42·53	40·44	(—)4·9
Midnapore			65,011	...	895	440	...	2,929	65,451	...	3,824	(—)5·8	57·92	33·60	(—)41·9
Hooghly			318	...	184	...	...	...	318	...	184	(—)57·8	...	...	...
Gya	3,015,680	2,356,000	29,779	...	31	4,448	...	1,347	34,227	...	1,378	(—)4·0	42·74	21·97	(—)49·0
Patna	1,329,920	1,039,000	22,943	...	[illegible]	2,871	...	2,766	25,814	...	5,576	(—)21·6	44·37	34·38	(—)22·5
Shahabad...	2,806,400	2,192,500	193,488	...	9,633	46,576	...	39,217	240,064	...	48,850	(—)20·3	44·84	33·55	(—)25·1
Sarun	1,680,000	1,312,500	2,342	...	1,555	159	...	3,157	2,500	...	4,712	(—)188·4	40·65	30·65	(—)124·6
Total ...	.....	.....	481,111	10,717	15,108	60,553	3,129	49,459	541,664	13,803	64,524	(—)9·3	...	...	...
			Net decrease 4,391			Net decrease 46,330			Net decrease 50,721						

Calcutta,

The 17*th September* 1890.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

No. II.—Annual Statement.

IRRIGATION OPERATIONS FOR THE YEAR 1889-90.

Statement in acres of crops irrigated in Canal Districts.

Nature of Crops.	Cuttack.	Balasore.	Midnapore.	Hooghly.	Gya.	Patna.	Shahabad.	Sarun.	Total.
Garden and orchards	159	[illegible]	.....	.....	.....	.....	81	4	244
Sugarcane	67	98	.....	7	2,839	1,546	21,350	2	25,899
Cereals ... Wheat	.....	.....	.....	.....	794	256	20,632	.....	21,682
Cereals ... Barley	.....	.....	.....	.....	1,630	1,035	9,153	.....	11,818
Cereals ... Rice	134,655	34,400	65,451	318	26,641	21,391	157,703	2,208	442,767
Cereals ... Miscellaneous	28	.....	.....	.....	299	6	794	119	1,246
Pulse ... Gram, &c.	19	.....	.....	.....	457	264	2,388	.....	3,128
Pulse ... Miscellaneous	469	.....	.....	.....	1,013	522	3,885	34	5,923
Fodder crops ... Grass, lucerne	.....	.....	.....	.....	.....	.....	.....	2	2
Fibres ... Cotton	3,011	.....	.....	.....	.....	.....	4	.....	3,015
Dyes ... Indigo	241	.....	.....	.....	.....	.....	.....	9	250
Dyes ... Turmeric, &c.	43	.....	.....	.....	.....	.....	.....	.....	43
Drugs ... Opium	.....	.....	.....	.....	554	794	581	123	2,052
Drugs ... Tobacco, &c.	.....	.....	.....	.....	.....	.....	.. ...	.....	.....
Oilseeds ... Mustard, &c.	1	.....	.....	.....	.....	.....	634	.....	635
Oilseeds ... Castor	97	.....	.....	.....	.....	.....	.....	.....	97
Miscellaneous	4	.....	.....	.....	.....	.....	9,094	.....	9,098
Hot weather	.....	.....	.....	.....	.....	.....	13,765	.....	13,765
Total, 1889-90 ...	138,794	34,495	65,451	318	34,227	25,814	240,064	2,501	541,664
Total, 1888-89 ...	133,720	25,766	69,275	502	35,605	31,390	288,914	7,213	592,385

Calcutta,

The 17th September 1890.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

No. III.—Annual Statement.

IRRIGATION OPERATIONS FOR THE YEAR 1889-90.

Statement in acres of crops irrigated by Canals in Canal Divisions.

Nature of Crops.	Taldunda Canal.	Kendrapara Canal.	High Level Canal, Range I.	High Level Canal, Range II.	High Level Canal, Range III.	Midnapore Canal.	Patna Canal.	Arrah Canal.	Buxar Canal.	Sarun Canal.	Total.	Remarks.
	Mahanuddy.	Brahminee-Byturnee.		Acquapadda-Jajepore.		Cossye.	Eastern Sone.	Arrah.	Buxar.	Gunduck.		
Garden and orchards	49	90		11		.....	.....	80	1	4	244	
Sugarcane	26	41		95		.....	4,385	13,478	7,872	2	25,899	
Cereals ... Wheat	.....	.....		.....		.....	1,050	6,411	14,221	.....	21,682	
Cereals ... Barley	.....	.....		.....		.....	2,665	8,284	869	.....	11,818	
Cereals ... Rice	38,233	93,980		36,842		65,769	48,032	93,512	64,191	2,208	442,767	
Cereals ... Miscellaneous ...	22	6		.....		.....	305	291	503	119	2,246	
Pulse ... Gram, &c. ...	1	18		.....		.....	721	2,361	27	.....	3,128	
Pulse ... Miscellaneous ...	187	282		.....		.....	1,535	3,542	343	34	5,923	
Fodder crops ... Grass, lucerne ...	.....	.....		.....		.....	.....	.....	.....	2	2	
Fibres ... Cotton	314	2,697		.....		.....	.....	4	.....	.....	3,015	
Dyes ... Indigo	.....	241		.....		.....	.....	.....	.....	9	250	
Dyes ... Turmeric, &c. ...	23	20		.....		.....	.....	.....	.....	.....	43	
Drugs ... Opium	.....	.....		.....		.....	1,348	522	59	123	2,052	
Drugs ... Tobacco, &c. ...	.....	.....		.....		.....	.....	.....	.....	.....	.....	
Oilseeds ... Mustard, &c. ...	1	.....		.....		.....	.....	633	1	.....	635	
Oilseeds ... Castor	3	94		.....		.....	.....	.....	.....	.....	97	
Miscellaneous	3	1		.....		.....	.....	700	8,394	.....	9,098	
Hot weather	.....	.....		.....		.....	.....	10,215	3,550	.....	13,765	
Total, 1889-90 ...	38,862	97,479		36,948		65,769	60,041	140,033	100,031	2,501	541,664	
Total, 1888-89 ...	40,407	90,928		28,151		69,777	66,995	165,349	123,565	7,213	592,385	

Calcutta,

The 17th September 1890.

G. A. G. SHAWE,

Under-Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 20th September, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
BURDWAN DIVN. 1	Burdwan Sept. 20, '90	1·31	Weather—hot and cloudy. *Aus* is being harvested. Prospects of *amun* and sugarcane good. More rain wanted everywhere. Prices of common rice :—
	Culna ...	0·66	
	Cutwa ...	0·37	
	Ranigunge ...	1·05	
			Srs.
			Burdwan ... ... 16½ }
			Culna ... ... 15 } per rupee.
			Cutwa ... ... 16½ }
			Ranigunge ... ... 16 }
2	Bankoora ,, 20, '90	2·14	Sky clear and weather warm. More rain wanted. Prospects of crops continue good. *Aus* harvest commenced. Price of common rice 19 seers per rupee at Sudder and 16½ seers at Bishenpore.
3	Birbhum ,, 20, '90	0·22	Weather—dry and warm. Crops still everywhere excellent; but more rain is wanted. People have already begun to irrigate. Price of rice 16 to 19 seers per rupee.
	Rampore Haut ...	1·03	
4	Midnapur ,, 20, '90	1·20	Bright sunshine with occasional rain. Rain still wanted in many places, but prospects improved. Indigo being sown again. Prices of common rice :—
			Srs.
			Sudder ... ... 16½ }
			Contai ... ... 16 }
			Ghatal ... ... 17 } per rupee.
			Tumlook ... ... 15 }
5	Hooghly ,, 20, '90	0·75	Weather—fair with showers. State and prospects of crops good, but more rain required. Prices of common rice :—
	Jehanabad ...	0·58	
			Srs.
			Sudder ... ... 13 }
			Serampore ... ... 13 } per rupee.
			Jehanabad ... ... 16 }
	Howrah ,, 20, '90	0·73	Weather—seasonable. Harvesting of *aus* and jute and transplanting of *amun* still going on. More rain wanted for *amun* crop. Prospects fair except in some villages where floods have done considerable damage. Price of common rice about 14 seers per rupee.
	Uluberiah ...	1·02	
	Central Districts.		
PRESIDENCY DIVS. 6	24-Pergha. Sept. 23, '90	1·91	Weather—seasonable. Harvesting of *aus* and jute and transplanting of *amun* almost over. Outturn of *aus* and jute estimated at between 13 and 14 annas. Prospects of *amun* continue fair except in the flooded area of the Bussirhat subdivision, where the crop has been destroyed. Relief is being given to persons in distress caused by flood. Prices stationary.
7	Nuddea ,, 20, '90	1·14	Weather—seasonable. Winter rice doing well. Flood rapidly subsiding. *Kalai* and *mung* being sown. Rice selling at 14 seers per rupee.
	Meherpore ...	0·55	
	Chuadanga ...	1·05	
	Ranaghat ...	0·82	
8	Khoolna ,, 20, '90	1·63	Weather—bright and hot with occasional showers. Flood-water receding. Nearly the whole of the crops submerged have been destroyed. Reaping of *aus* and transplantation of *amun* nearly over. Prospects in the flooded thanas bad; elsewhere good.
	Bagirhat ...	1·78	
	Satkhira ...	1·35	
9	Jessore ,, 20, '90	0·15	Weather—hot and cloudy. Flood-water rapidly subsiding. Prospects very good in Magura and Narail. Sowing of cold-weather crops and indigo commenced. Enquiries about flood damages in progress. Charitable relief being given in Bongong and Jhenidah.
	Jhenidah	1·55	
	Magura ...	1·43	
	Narail ...	0·34	
	Bongong ...	1·00	
10	Moorshedabad ,, 20, '90	0·86	Weather—bright and clear. Harvesting of *bhadoi* nearly completed. Some transplantation of *haimanti* paddy still going on in the Kandi subdivision. *Kalai* has been widely sown. Cultivation for *rubbi* commenced. Floods much receded. Agricultural loans and charity being distributed to those in distress.
RAJSHAHYE DIVS. 11	Dinagepur ,, 20, '90	0·40	Weather—variable. Prospects of crops continue favourable. Price of rice unchanged.
	Thakurgaon ...	3·77	
12	Rajshahye ,, 20, '90	0·33	Weather—seasonable. Flood-water subsiding generally, and in some parts rapidly. Prospects improving in Nowgong, and in Nattore are good.
	Nattore ...	1·67	
	Nowgong ...	1·16	
13	Rungpur .. 20, '90	2·50	Weather—sultry with frequent showers. Transplantation of *amun* rice nearly over. Rain now wanted for the young plants. Jute has been greatly over done, and in many places will hardly repay the cutting. Prices still very high.
	Kurigram ...	1·39	
	Nilphamari ...	0·75	
	Gaibanda ...	0·84	
14	Bogra ,, 20, '90	1·70	Weather—days hot and sultry. *Amun* is still being transplanted. Three-fourths of the *aus* paddy have been reaped, and the reaping of jute is not finished yet. *Amun* and sugarcane look promising. Common rice selling at 19 seers per rupee.
	Sherpur ...	0·49	
15	Pubna ,, 20, '90	1·19	Weather—cool and cloudy. Jute harvest not yet finished; outturn estimated at about 14 annas. Prospect of *amun* not good in the sudder subdivision, but good in the Serajgunge subdivision. Prices stationary.
16	Darjeeling ,, 20, '90	1·85	Weather—fair and fine. Transplantation of winter rice in Terai nearly finished. Jute, *bhadoi*, *bhutta*, and *chota marua* still being harvested. *Haimanti* rice and *bara marua* progressing favourably.
	Silliguri ...	2·05	
17	Julpigoree ,, 20, '90	3·47	Weather—hot and cloudy with rain at intervals. About 14 annas of *haimanti* paddy transplanted. Average outturn of *aus* and jute reported to be 12 and 11 annas respectively. Prices continue stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca Sept. 20, '90	1·08	Weather—hot and cloudy at intervals. Rain heavier in Manickgunge than in other subdivisions. *Aus* and jute being harvested. These crops have been partially damaged be high flood. *Amun* doing well. Rivers falling. Fodder available, but not in abundance. Common rice sold at from 13 to 15 seers per rupee during the week.
19	Furreedpur „ 20, '90	2·49	Weather—seasonable. Flood-water fast receding. Prospect of *amun* crop fair. Jute steeping in progress. Price of rice stationary.
20	Backergunge ...	.....	Report not received.
21	Mymensingh Sept. 20, '90	4·18	Weather—hot and cloudy with occasional rain. Jute still being harvested. Transplantation of *amun* nearly finished. Standing crops flourishing. Rivers going down. Price of common rice 13½ seers per rupee.
Chittagong Divn. 22	Chittagong „ 20, '90	3·84	Weather—seasonable. About 14 annas of *aus* cut, and *amun* transplanted over 12 annas of land. Prospects fairly good. Prices steady.
23	Noakholly „ 20, '90	1·67	Weather—warm and sultry. Reaping of *aus* completed. Transplantation of *amun* still going on. Betel-nuts maturing.
24	Tipperah ...	.....	Report not received.
25	Chittagong Hill Tracts. Sept. 18, '90	2·05	Weather—extremely hot and rainy, except on the 16th and 17th. Gathering of *jum* paddy continues. Plough-paddy progressing. Common rice being sold at 12 seers 15 chittacks per rupee
	Hill Tipperah „ 19, '90	3·17	Weather—hot with occasional showers. Cutting of jute going on. Prospects of *amun* and *jum* crops generally fair. Prices stationary.
BEHAR.			
Patna Divn. 26	Patna „ 20, '90	1·19	Weather—very hot. Transplantation of paddy over and prospects favourable. *Bhadoi* crops are being harvested. *Jowar* and *rahar* look flourishing. Prices of food-grains stationary.
	Barh ...	1·40	
	Behar ...	1·05	
	Dinapore ...	3·20	
27	Gya „ 20, '90	0·53	Weather—sometimes cloudy and sometimes clear. Paddy and *kurthi* are the only crops standing in the fields. Prospect of paddy is doubtful for want of rain. Ploughing of *rubbi* fields commenced. Prices of food-grains have risen to some extent.
28	Shahabad „ 20, '90	0·98	Weather—cooler than last week, but still hot. Rain in Sasseram and Bhabuah
	Buxar ...	0·90	has saved the paddy crop for the present. More rain will be wanted. The
	Bhabuah ...	2·35	rains do not appear to have finished, and prospects are good. Price of wheat
	Sasseram ...	1·02	rising, but that of paddy falling, in Sasseram; elsewhere prices unchanged.
29	Durbhunga „ 20, '90	0·29	Weather—hot and cloudy. *Bhadoi* harvest still in progress. Prospects of rice
	Somastipur ...	1·18	in parts not affected by floods continue favourable. A few showers of rain
	Madhubani ...	0·70	would, however, greatly benefit the crop. Lands being prepared for *rubbi* cultivation. Prices remain stationary.
30	Mozufferpur „ 20, '90	0·62	*Makai* and other *bhadoi* crops are being harvested; outturn will be better than
	Hajipur ...	2·88	was expected during the heavy rains of July and August. Rice is doing
	Sitamarhi ...	0·58	well, specially in the Sitamarhi subdivision, and with a further rainfall of three or four inches before the middle of October, a good outturn will be obtained.
31	Sarun „ 20, '90	0·52	Weather—hot and bright; occasionally cloudy. Paddy, where it survives, has
	Sewan ...	5·88	been benefited by the rain. More rain wanted. Preparation of lands for
	Gopalgunge ...	2·07	*rubbi* commenced.
32	Chumparun „ 20, '90	1·88	Weather—hot and sultry. Rainfall of the week has considerably benefited the
	Bettiah ...	3·41	winter rice on high lands; prospects very good. *Bhadoi* crops are being cut and housed. Prices remain almost stationary.
Bhagulpore Divn. 33	Monghyr „ 20, '90	1·50	Weather—hot and sultry; cloudy at times. Recent rain has benefited the
	Begusarai ...	0·79	winter rice, but more rain is wanted. Lands are being ploughed for *rubbi*
	Jamui ...	0·88	sowing.
34	Bhagulpore „ 20, '90	0·71	Weather—hot and sunny. Prospects of winter rice continue good, but more
	Banka ...	0·88	rain is wanted. *Bhadoi* harvest nearly over.
	Mudhepura ...	Nil	
	Soopool ...	0·43	
35	Purneah „ 20, '90	0·34	Weather—cloudy and close. Prospects continue favourable. *Bhadoi* harvest
	Kishengunge ...	0·93	completed with an average outturn of 13 annas. Transplantation of winter
	Arrareah ...	1·27	rice finished. Prices stationary.
36	Maldah „ 20, '90	0·52	Days hot and bright, but mornings somewhat cool. Jute still being cut. Winter
	Chanchal ...	0·78	rice thriving well. *Kalai* sowings going on. Lands being prepared for
	Shibgunge ...	0·25	*rubbi* crops. Common rice selling at from 12 to 17½ seers per rupee.
	Gajole ...	1·53	
37	Santhal Pergns. „ 20, '90	0·98	Weather—generally cloudy and hot. Rain has done much good to the rice crop,
	Deoghur ...	0·52	and another fair shower will secure an outturn of 16 annas. *Janera* is
	Godda ...	0·46	nearly a failure; about 4 annas will be the outturn of this crop. All the
	Jamtara ...	0·56	minor crops are doing well.
	Pakour ...	1·62	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Sept. 20, '90	5·29	Weather—seasonable. Harvesting of early *beali* going on. *Laghu* as well as *guru sarad* doing fairly well except in Jajpur, where, as previously reported, paddy crop generally, and *beali* and early *sarad* specially, have suffered from want of sufficient rain. Outturn of early *sarad* estimated at 7 annas. Two heavy showers have, however, fallen during the week, and prospects are likely to improve.
	39	Pooree „ 18, '90	1·24	Weather—seasonable. Weeding of *sarad* crop going on. *Beali* and *mandia* are being harvested. Miscellaneous crops doing well Insects called *haldi-goondi* and *rangi* have attacked the *sarad* crop in the Khoorda subdivision. Price of common rice stationary.
		Khoorda ...	0·59	
		Banpur ...	5·67	
	40	Balasore „ 20, '90	3·36	Weather—seasonable. Rain has come in time to save the winter rice crop on lowlands, but that on high lands is already dead. Estimated crop in Bhuddruck 10 annas, and in the Sudder subdivision at least 12 annas.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Sept. 20, '90	1·93	Weather—rather unsettled. Rain on 16th and 17th has greatly benefited the rice crop. *Bhadoi* crops are being harvested; outturn generally very poor. Oilseeds and pulses are being sown.
	42	Lohardugga „ 20, '90	3·35	Weather—seasonable. Rainfall during the week has done much good to the winter rice crop. Some more rain is wanted for this crop. Early *gora* rice is being harvested here and there. No material change in price.
		Palamow (up to 15th Sept.)	0·70	
	43	Singbhoom Sept. 20, '90	2·51	Weather—cloudy with storm every day. The recent rain has done immense good to the winter rice crop; more rain is, however, wanted in order to place it out of danger. The upland (*bera*) paddy has suffered to the extent of about 4 annas. Price of rice varies from 13 seers per rupee at Monarpur to 20 seers at Kalkapur; in Chyebassa town it is selling at 16 seers per rupee.
	44	Manbhoom „ 20, '90	2·04	Weather—very favourable. Good rain all over the district, and the rice crop has been materially benefited. Prospects generally fair.
		Govindpore ...	2·25	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 23rd September, 1890.

P. NOLAN.
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH SEPTEMBER 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in

QUANTITIES PER RUPEE

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOI (*Sorghum Vulg*		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S Ch	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S
1	Burdwan ...	14 10	14 8	12 12	...	...	...	12 6	12 0	11 4	16 5	15 15	14 7	...	...	
2	Bankoora ...	15 0	15 4	13 8	20 0	20 0	17 0	15 0	15 0	15 0	18 0	18 0	17 12	.	...	
3	Beerbhoom ...	17 0	17 0	15 0	...	...	...	13 8	13 8	12 0	16 8	16 8	14 4	...	...	
4	Midnapore ...	11 0	11 0	13 6	...	...	...	13 0	13 0	12 8	16 4	16 0	15 8	...	...	
5	Hooghly ...	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	..	...	
	Howrah ...	...	...	...	...	...	...	10 0	10 0	9 0	13 4	13 4	12 8	...	...	
	Central Districts.															
	Calcutta ...	13 8	13 9	13 4	17 8	17 4	16 12	8 14	8 15	8 10	12 12	13 1	13 2	16 0	17 6	14
6	24-Pergunnahs	14 8	14 8	14 8	18 12	18 12	16 13	8 0	8 0	7 0	15 0	14 0	13 4	...	...	
7	Nuddea ...	15 4	15 10	14 0	20 0	17 12	17 12	12 3	11 6	10 10½	14 8	13 0	13 3	...	...	
8	Khoolna ...	...	...	...	...	...	...	12 0	10 8	10 8	13 0	12 8	13 0	...	...	
9	Jessore ...	13 4	[illegible]4	11 0	...	...	...	11 0	11 0	9 0	14 4	12 0	12 0	...	...	
10	Moorshedabad	16 0	[illegible]6 0	15 0	...	...	...	10 0	10 0	10 0	15 0	15 0	13 8	...	...	
11	Dinagepore ...	15 0	15 0	16 0	18 0	18 0	...	12 0	12 0	12 0	15 8	15 8	13 0	...	...	
12	Rajshahye ...	17 4	15 0	15 0	24 0	22 8	16 8	12 0	12 0	9 12	14 4	13 8	11 4	...	...	
13	Rungpore ...	13 5	13 5	12 4	...	...	...	9 6	9 6	7 8	13 5	13 5	9 6	...	...	
14	Bogra ...	15 0	15 0	12 0	...	...	...	12 0	12 0	9 12	14 4	15 0	12 0	...	...	
15	Pubna ...	18 0	18 12	16 8	...	...	...	7 2	7 0	8 8	16 2	15 6	12 12	...	...	
16	Darjeeling ...	8 0	8 0	10 0	10 0	10 0	10 0	5 0	5 0	5 0	11 0	11 0	11 0	...	...	
17	Julpigoree ...	13 0	14 0	12 0	16 0	16 0	16 0	8 0	8 0	8 0	13 0	14 0	13 0	...	...	
	Eastern Districts.															
18	Dacca ...	12 0	12 0	13 0	13 0	16 0	26 0	13 0	12 0	10 0	14 0	14 0	11 0	...	...	
19	Furreedpore ...	15 0	15 0	15 0	20 0	20 0	16 0	10 0	10 0	9 0	14 0	14 0	12 0	...	...	
20	Backergunge ...	...	...	...	...	...	...	11 8	11 10	10 4	12 8	13 4	11 4	...	...	
21	Mymensingh ...	10 0	11 8	10 9	...	...	...	10 8	11 0	8 12	13 4	13 8	10 0	...	...	

* Increase due to want of import by rail in consequence of the flood.
A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Ramsegunge 10 seers.
B At Rampore Haut retail price of salt 9 seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 9 seers, and Ghatal 11 seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 10½ seers and Jehanabad 10 seers 11 chittacks.
E In subdivisions retail prices of salt per rupee are :—Baraset 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat seers, Barrackpore 9 seers 9 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are :—Koushtea, Meherpore, and Chooadanga 10 seers, and Ranaghat 9 s 8 chittacks.
G In subdivisional retail prices of salt per rupee are :—Rajshahye 10 seers and Bogtirat 8 seers.

rs of the Districts of Bengal on the 15th September, 1890.

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Penicillaria typhoideum.*)			Marua or Ragi (*Eleusine Coracana.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
19 10	11 3	11 6	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	16 0	13 0	14 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

B, r.)	Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			DISTRICTS.
of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
Ch.	S. Ch.	S. Ch.	S Ch.	S. Ch.	S. Ch.	S Ch.	Rs. A. P.	Rs. A. P	Rs. A. P.	
										BENGAL.
										Western Districts.
0	100 0	100 0	100 0	11 A 2	10 14	10 6½	3 8 0	3 8 6	3 11 3	Burdwan.
8	240 0	240 0	240 0	10 4	10 4	10 0	3 15 0	3 15 0	3 15 0	Bankoora.
8	160 0	160 0	160 0	10 B 8	10 8	10 8	3 10 0	3 10 0	3 10 0	Beerbhoom.
8	120 0	120 0	160 0	10 C 8	10 8	10 6	3 13 0	3 13 0	3 13 6	Midnapore.
9	120	120 0	120 0	9 D 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.
8	100 0	100 0	100 0	10 8	10 8	10 8	3 8 6	3 9 0	3 10 0	Howrah.
										Central Districts.
8	92 8	92 8	100 0	10 8	10 7	10 4	3 8 11	3 9 0	3 9 9	Calcutta.
0	100 0	100 0	100 0	10 E 12	10 8	10 8	3 5 6	3 5 6	3 9 6	24-Pergunnahs.
0	...	...	...	9 F 13	9 13	9 2	3 12 0	3 12 0	3 14 0	Nuddea.
	160 0	140 0	160 0	8 G 0	8 0	9 0	4 0 0	4 4 0	4 0 0	Khoolna.
0	160 0	160 0	160 0	8 H* 0	9 1	9 2	4 4 0	4 0 0	4 0 0	Jessore.
0	200 0	200 0	200 0	11 I 4	11 4	11	3 8 0	3 8 0	3 8 0	Moorshedabad.
0	160 0	160 0	120 0	10 J 0	10 0	10 0	4 0 0	4 0 0	3 15 0	Dinagepore.
0	240 0	240 0	240 0	9 K 9	9 9	9 9	4 0 0	4 0 0	4 0 0	Rájshahye.
6	100 0	100 0	100 0	9 L 6	9 6	9 6	4 4 0	4 4 0	4 4 0	Rungpore.
	90 0	90 0	96 0	9 6	9 0	9 0	4 1 4	4 2 8	4 0 0	Bogra.
4	200 0	200 0	200 0	M k 8-11-2	k 8-11-2	k 9-2-2	3 15 0	3 15 0	4 0 0	Pubna.
0	120 0	120 0	120 0	7 N 0	6 8	8 0	5 8 0	5 12 0	5 0 0	Darjeeling.
0	200 0	200 0	128 0	9 O 0	9 0	9 8	4 4 0	4 4 0	4 0 0	Julpigoree.
										Eastern Districts.
0	120 0	90 0	160 0	9 P 8	9 8	10 0	4 2 0	4 2 0	3 15 0	Dacca.
0	120 0	120 0	120 0	10 9	10 0	9 0	3 14 0	3 14 0	4 4 0	Furreedpore.
8	100 0	100 0	120 0	11 Q 0	10 10	10 0	3 10 0	3 12 0	3 14 0	Backergunge.
0	...	...	...	9 R 8	9 8	9 8	4 2 0	4 0 0	4 0 0	Mymensingh.

t 8 seers per rupee.
ice of salt 9 seers 9 chittacks per rupee.
t per rupee are :—Kurigram 8 seers, Nilphamari 9 seers, and Gaibanda 8 seers.
10½ seers per rupee.
seers per rupee.

O In Alipore subdivision (at Fallacatta) retail price of salt 8 seers per rupee.
P In subdivisions retail prices of salt per rupee are :—Maniekgunge 9 seers, Moonshegunge 8 seers 14 chittacks, and Narain-gunge 10 seers.
Q In subdivisions retail prices of salt per rupee are :—Patuakhali 9 seers, Perozepore 9 seers, and Bhola 8 seers.
R In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Tangail 10 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona 8 seers.

See above.

Station Bazars of the Districts of Bengal on the 15th September, 1890—(concluded).

Indian-corn or Maize. (*Zea Mays.*)			Arhar or thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															Eastern Districts—concluded.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	...	...	...	...	...	110 0	110 0	100 0	R1 10 0	10 0	10 0	3 14 0	3 14 0	3 12 0	Chittagong.
...	...	..	8 0	8 0	8 0	...	...	...	R2 9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
...	...	...	6 10¼	6 10¼	8 0	...	...	...	9 6½	9 6½	9 0	4 3 0	4 3 0	4 4 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 12 0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
															BEHAR.
19 0	20 0	22 0	19 8	20 0	22 0	110 0	110 0	130 0	10 0	10 0	10 8	3 9 6	3 10 0	3 13 0	Patna.*
...	...	...	19 0	19 0	18 0	180 0	200 0	200 0	9 2	9 0	9 2	4 1 0	4 0 0	4 2 0	Gya.
...	...	...	20 0	20 0	19 0	120 0	120 0	140 0	S 10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Shahabad.
22 0	20 0	22 13	19 12	20 0	22 13	200 0	160 0	180 0	T 11 0	11 0	10 0	3 8 0	3 8 0	3 14 0	Durbhunga.
22 0	20 0	16 0	19 0	19 0	18 0	160 0	160 0	160 0	U 10 0	10 0	10 0	3 12 0	4 0 0	3 12 0	Mozufforpore.
18 0	...	18 0	18 4	19 4	20 4	160 0	120 0	160 0	10 8	10 4	9 12	3 12 0	3 14 0	4 0 0	Sarun.
20 0	...	14 0	18 0	21 0	18 0	160 0	160 0	160 0	V 10 0	10 0	9 8	3 11 0	3 14 0	4 0 0	Chumparun.
21 0	22 0	22 1	16 12	17 13	17 13	147 0	168 0	126 0	W 10 3	10 3	9 15	3 10 0	3 11 3	3 14 6	Monghyr.
22 6	26 14	20 13	18 15	20 3	17 10	138 14	125 3	158 0	10 1	10 1	10 1	3 14	3 12 10	4 0 0	Bhagulpore.
...	...	...	15 0	15 0	14 0	...	180 0	180 0	X 9 8	9 8	9 0	4 7 0	4 7 0	4 7 0	Purneah.
...	...	...	...	...	...	120 0	160 0	140 0	9 0	9 8	9 8	4 0 0	4 2 0	3 14 0	Maldah.
20 0			21 0	21 0	17 0	200 0	200 0	200 0	9 0	9 8	9 4	3 14 0	3 14 0	4 1 0	Sonthal Perghs.
															ORISSA.
...	...	...	19 11	21 0	18 6	80 0	80 0	80 0	10 0	10 0	11 0	4 0 0	4 0 0	3 12 0	Cuttack.
...	...	...	13 2	13 2	15 12	80 0	80 0	64 0	Y 9 13	9 13	10 8	3 12 0	3 12 0	3 12 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	Z 10 0	10 0	10 0	3 14 0	3 14 0	3 14 0	Balasore.
															CHOTA NAGPORE.
															South-West Frontier Agency.
20 0	21 0	30 0	21 0	21 0	17 0	240 0	240 0	320 0	8 0	8 8	8 0	4 3 0	4 4 0	4 8 0	Hazaribagh.
40 0	28 0	Old. 20 0	Small. 26 0 / Big. 16 0	28 0 / ...	13 8	120 0	120 0	130 0	Z1 9 12	9 0	7 8	4 1 0	4 3 0	5 2 0	Lohardugga.
20 0	20 0	20 0	21 0	21 0	12 0	240 0	240 0	200 0	9 0	8 0	7 0	4 4 0	4 12 0	5 8 0	Singbhoom.
...	...	...	17 0	17 0	15 0	200 0	200 0	200 0	Z2 9 14	9 14	9 0	3 12 0	3 12 0	4 2 6	Manbhoom.

W In subdivisions retail prices of salt per rupee are :—Begusarai 9½ seers and Jamui 9 seers.
X In Arrareah subdivision (at Ranigunge) retail price of salt 10 seers per rupee.
Y In Khoorda subdivision retail price of salt 10 seers per rupee.
Z At Bhudruck retail price of salt 9 seers per rupee.
Z1 At Palamow retail price of salt 8·30 seers per rupee.
Z2 At Govindpore retail price of salt 9 seers per rupee.

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P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and S

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A.
1	Calcutta ...	2 11 0	2 10 9	2 12 9	2 1 3	2 1 2	2 2 3	4 3 7	4 3 6	4 6 3	2 13 9	2 12 7	2 13
2	Serajgunge ...	2 1 0	2 3 0	2 2 0	...	...	...	4 12 0	4 12 0	4 8 0	3 0 0	2 12 0	3 1
3	Dacca ...	3 4 0	3 4 0	3 0 0	3 0 0	3 0 0	1 8 0	3 0 0	3 4 0	4 0 0	2 13 0	2 13 0	3 11
4	Naraingunge	...	...	...	...	...	...	3 2 0	3 0 0	...	3 0 0	2 12 0	..
	Chittagong ...	3 8 0	3 8 0	3 12 0	...	...	...	3 6 0	3 8 0	4 10 0	2 10 0	2 12 0	3 0
6	Patna ...	2 5 0 (Red.) / 2 8 0 (White.)	2 5 6 / 2 8 0	... / 5 3	1 15 0	2 0 0	1 13 6	3 14 0	3 15 0	3 14 0	2 9 6	2 9 6	2 10
7	Balasore ...	2 8 0	2 8 0	2 10 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 0 0	2 5 0	2 5 0	2 7
8	Pooree ...	..	...	...	...	.	...	...	...	...	1 14 3	1 14 3	2 5
9	Cuttack ...	2 10 0	2 5 0	3 0 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	2 5

CALCUTTA,
The 23rd September, 1890.

engal on the 15th September, 1890.

PRICES PER MAUND

...E CHOLUM. ...m Vulgare.)		BAJRA OR CUMBU. (*Pennisetum typhoideum.*)		
Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
2 1 9	2 8 0	3 7 4	3 5 0	3 4 0
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
0 2 0 0	2 0 0	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...

1932*a*

...IZE.	ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
...g return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
6	2 4 6	2 2 8	2 1 0	0 5 9	0 5 9	0 5 6	3 8 11	3 9 0	3 9 9	Calcutta.
	...	...	...	...	...	...	3 11 0	3 11 0	3 14 0	Serajgunge.
	3 4 0	3 8 0	2 12 0	0 5 0	0 6 0	0 4 0	4 2 0	4 2 0	3 15 0	Dacca.
	3 8 0	3 8 0	...	0 8 0	0 8 0	...	3 12 0	3 12 0	...	Naraingunge
	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 12 0	Chittagong
0	2 0 0	1 14 6	1 12 0	0 6 0	0 6 0	0 5 0	3 9 6	3 10 0	3 13 0	Patna.
	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	3 14 0	Balasore.
	...	...	...	...	...	...	3 12 0	3 12 0	3 12 0	Pooree.
	2 0 0	1 11 0	2 2 0	0 8 0	0 8 0	0 8 0	4 0 0	4 0 0	3 12 0	Cuttack.

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Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Ber

he week ending Friday, the 19th of September 1890.

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature for week.	Variation from normal mean of week.
Orissa.	Pooree	Pooree ...	29·684	29·636	—	?	267	90·7	13th Sep.	77·6	15th Sep.	87·2	79·5	83·4	—
		Gopalpore ...	29·663	29·685	—·033	Variable	247	89·2	13th ,,	77·8	16th ,,	85·8	78·6	82·4	—1·6
		False Point ...	29·688	29·710	—·012	ESE	226	89·0	13th ,,	76·6	14, 15 & 18 Sep.	86·7	77·5	82·1	—0·8
	Cuttack	Cuttack ...	29·634	29·716	+·063	E	42	91·4	13th ,,	76·8	15, 16 & 19 Sep.	88·6	77·7	83·2	—0·7
	Balasore	Balasore ...	29·668	29·737	+·009	Calm	70	90·4	13 & 14 ,,	77·7	13 & 15 to 19th Sep.	87·8	77·9	82·9	+0·8
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·710	29·736	+·010	E	254	92·2	13th ,,	78·0	18th ,,	89·6	79·6	84·6	+0·7
	Midnapore	Midnapore ...	29·598	29·741	+·010	Variable	180	93·3	13th ,,	76·1	17th ,,	89·9	77·9	83·9	+0·4
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	Calcutta ...	29·736	29·748	+·019	ENE & SE	79	91·0	13th ,,	75·2	14th ,,	87·8	77·1	82·5	—0·6
	Burdwan	Burdwan ...	29·660	29·760	+·020	ESE	78	94·6	13th ,,	78·4	15, 17 & 19 Sep.	90·5	79 1	84·8	+0·3
	Bankoora	Bankoora ...	29·426	29·727	+·012	E	123	94·1	13th ,,	76·1	17th ,,	89·0	77·5	83·3	—0·1
	Beerbhoom ... ... / West Burdwan	Ranegunge...	29·415	29·749	+·025	ESE	79	94·5	13th ,,	70·8	17th ,,	89·6	77·8	83·7	—0·3
	Moorshedabad	Berhampore...	29·690	29·758	+·017	E	87	91·7	13th ,,	78·3	14 to 17 & 19th Sep.	89·3	78·7	84·1	+0·1
	Nuddea	Krishnaghur...	29·706	29·754	—·028	SSE & ESE	129	92·8*	14th* ,,	76·3*	14th* ,,	89·0*	77·4*	83·7*	+0·2
	Jessore ... ... / Khoolna	Jessore ...	29·724	29·758	+·005	SSE	81	91·8	13th ,,	78·9	19th ,,	89·0	79·8	84·5	+0·1
	Chittagong	Chittagong ..	29·764	29·794	+·063	S	80	89·7	18th ,,	75·7	15th ,,	87·8	77·9	82 9	+1·0
	Chittagong Hill Tracts	Demagiri ...	Observations not received.					90·8	13th Sep.	77·3	15th ,,	87·5	79 1	83·3	+1·1
East Bengal.	Backergunge	Barrisal ...	29·747	29·[illegible]	+·010	Calm & Easterly	68	88·5	18th ,,	75·8	15 & 18 ,,	86·6	77·8	82·2	+0·[illegible]
	Noakholly	Noakholly ...	29·753	29·797	+·031	SE	105	88·5	13 & 18 ,,	78·4	14 & 16 ,,	87·4	79·8	83 6	+0·[illegible]
	Furreedpore	Furreedpore...	29·744	29·783	+·035	Calm	89	91·1	13 & 18 ,,	78·7	15 to 17 ,,	89·5	79·9	84·7	+0·[illegible]
	Dacca	Dacca ...	29·746	29·769	+·013	SE	111	91·3	13th ,,	76·3	14 & 15 ,,	89·6	76·9	83·3	+0·[illegible]
	Commillah	Commillah ...	29·750	29·786	+·020	SE	76	91·2	18th ,,	77·5	16th ,,	88·3	78·8*	83·6*	+0·[illegible]
	Mymensingh	Mymensingh..	29·724	29·783	+·021	SE	70	91·3	18th ,,	78·1	15 & 16 ,,	88·9	79·0	84·0	+1·[illegible]
	Bogra ..	Bogra ..	29·693	29·756	+·039	Calm	57	89·6	18th ,,	78·8	15th ,,	87·3	80·7	84·0	+0·[illegible]
North Bengal.	Serajgunge ...	Serajgunge ...	29·726	29·[illegible]73	+·026	SSE	51	91·3	13th ,,	78·5	15 to 17 ,,	89·5	79·6	84·6	+1·[illegible]
	Pubna	Rampore Beauleah.	29·694	29·764	+·036	Variable	96	94·5	13th ,,	77·5	15th ,,	92·3	79·6	86·0	+1·[illegible]
	Rajshahye	Maldah ...	29·680	29·761	+·094	SE	81	92·6	18th ,,	77·6	13th ,,	89·9	79·5	84·7	+0·[illegible]
	Maldah ...	Dinagepore ...	29·651	29·772	+·015	E	50	93·8	18th ,,	75·7	13 & 15 ,,	90·5	77·7	84·1	+1·[illegible]
	Dinagepore	Rungpore ..	29·663	29·789	+·020	Variable	52	92·4	18 & 19 ,,	75·1	13, 14 & 19 Sep.	89·0	75·9	82 5	+0
	Rungpore ...	Julpigoree ...	29·402	29·782	+·019	?	138	88·6	18 & 19 ,,	54·0	10th ,,	86·1	55·9	61·0	+0
	Julpigoree / Cooch Behar ..	Darjeeling ..	22·971	—	—·032	ENE	56	91·2	18 & 19 ,,	71·4	15th ,,	89·8	78·0	84·0	+0
	Darjeeling Hill Tracts ...	Purneah ...	29·635	29·762	+·025	Southerly	56	92·8	19th ,,	77·7	16th ,,	90·5	79·7	85·1	—
North Behar.	Purneah .. ... / North Bhagulpore ...	Mozufferpore	29·525	29·704	—	E	145	92·9	19th ,,	77·5	15 & 16 ,,	90·8	79·1	85·0	+0
	Mozufferpore	Durbhunga ...	29·593	29·760	+·022	Easterly	128	94·2	19th ,,	78·8	15th ,,	90·2	77·4	83·8	0
	Durbhunga	Motihari ...	29·536	29·764	+·041	ESE	153	94·8	14 & 16 ,,	77·6	16 & 17 ,,	91·2	80·1	85·6	+1
	Chumparun	Chupra ...	29·533	29·726	+·010	SSE	134	95·3	14th ,,	76·0	15 & 16 ,,	90·7	77·8	84·2	+1
	-arun	Dehree ...	29·362	29·717	—·012	South-easterly.	119	94·4	13th ,,	74·8	16th ,,	89·8	77·2	83·5	+[illegible]
	Shahabad ...	Buxar ... / Arrah ...	29·482 / 29·526	29·724 / 29·722	—·001 / +·008	E / E	175 / 17	94·4 / 94·4	13 & 14 ,, / 13 & 14 ,,	69·7 / 74·8	18th ,, / 16th ,,	91·3 / 93·0	77·6 / 79·0	84·5 / 86·0	+[illegible]
South Behar.	Gya	Gya ...	29·341	29·720	—·006	E	114	96·0	14th ,,	76·8	17th ,,	93·0	79·0	86·0	+[illegible]
	Patna	Bankipore ...	29·551	29·735	+·002	E	152	94·4	14th ,,	75·7	17th ,,	91·8	79·5	85·6	+[illegible]
	South Bhagulpore ... / Monghyr ...	Bhagulpore ...	29·576	29·739	+·019	Calm	14	95·2	13th ,,	77·0	17th ,,	90·6	78·3	84·5	+[illegible]
	Sonthal Pergunnahs ..	Doomka ...	29·253	29·752	+·028	South-easterly.	146	91·6	13th ,,	76·5	14, 16 & 17 Sep.	89·0	77·1	83·1	+[illegible]
Chutia Nagpur.	Hazaribagh	Hazaribagh ...	27·732	29·741	0	S & SE	217	90·5	13 & 14 ,,	71·2	17 to 19 ,,	85·5	73·1	78·9	+[illegible]
	Lohardugga ... ... / Manbhoom	Ranchee ...	27·612	29·740	+·003	South-easterly.	130	88·5	13th ,,	68·9	18 & 19 ,,	83·8	70·3	77·0	—
	Singbhoom	Chyebassa ...	28·972	29·7[illegible]	+·022	Calm & NE	40	93·9	13th ,,	74·7	15 & 19 ,,	88·1	75·8	81·8	—
		Sibsagar ...	29·[illegible]	29·831	+·027	SW		94·1	18th ,,	76·5	14th ,,	88·8	76·7	82·8	—
Assam.	Assam	Dhubri ...	29·666	29·765	+·001	NE	117	89·7	19th ,,	77·8	13, 15 & 16 Sep.	86·2	78·6	82·4	+
		Silchar ...	29·691	29·798	+·010	Calm		95·6	17th ,,	76·3	19th ,,	93·1	77·1	84·6	+

* Means of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period fo
The humidity of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The
The normal means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during
[illegible] numerical means or average of the rainfall in the district resulting from the returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

Meteorological Division.	District.	District observations. Average cloud amount at 9 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
Orissa.	Pooree	7·0	1·37		2·86		7·27			41·22			3·8	Pooree ..	Pooree	Orissa.
		6·0	0·79											Gopalpore ...		
		7·7	2·54											False Point ...		
	Cuttack	8·0	3·23		2·62		6·46			41·17			3·8	Cuttack ..	Cuttack	
	Balasore	6·7	3·54	3·84	2·86	4·07	7·22	—2·25	37·70	42·62	—4·92	5·7	3·7	Balasore ..	Balasore	
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	8·9	2·13	2·45	1·93	2·49	7·62	—5·13	36·44	49·40	—12·96	5 3	3·3	Saugor Island ..	South-West Midnapore / South 24-Pergunnahs	South-West Bengal.
	Midnapore	4·1	1·17	1·25	1·58	1·73	5·37	—3·64	36·47	43·51	—7·04	4·3	3·0	Midnapore	Midnapore ...	
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	8·0	1·52	1·12	1·34	2·21	5·68	—3·47	39·49	43·65	—4·16	3·8	3·2	Calcutta ...	24-Pergunnahs... ... / Howrah ... ... / Hooghly	
	Burdwan	8·3	1·31	0·78	1·23	4·55	5·09	—0·54	48·73	39·26	+9·47	2·0	3·0	Burdwan ...	Burdwan	
	Bankoora	7·0	2·13	1·05	1·74	2·22	5·85	—3·63	39·94	45·49	—5·55	3·5	3·2	Bankoora ..	Bankoora	
	Beerbhoom ... ... / West Burdwan	7·6	1·05	0·00	1·38	1·99	6·64	—4·65	47·21	44·73	+2·48	2·0	3·3	Ranegunge ...	Beerbhoom ... ... / West Burdwan	South-West Bengal.
	Moorshedabad	8·7	0·86	0·81	1·88	1·87	7·01	—5·14	44·79	42·03	+2·76	2·5	3·2	Berhampore ..	Moorshedabad ...	
	Nuddea	7·7	1·13	0·83	1·28	2·63	5·49	—2·86	38·79	40·98	—2·19	2·8	3·1	Krishnaghur ...	Nuddea	
	Jessore ... ... / Khoolna	7 7	0·63	1·20	1·35	2·01	5·86	—3·85	42·30	44·68	—2·38	3·5	3·2	Jessore ...	Jessore ... ... / Khoolna	
	Chittagong	6 1	3·54		2·01		9·85			99·36			4·2	Chittagong ...	Chittagong	
	Chittagong Hill Tracts				2·84		7·84			65·97			4·7	Demagiri ...	Chittagong Hill Tracts	
East Bengal.	Backergunge	7·3	2·25	1·78	2·02	2·98	7·55	—4·57	57·17	64·26	—7·09	3·6		Barrisal ...	Backergunge	East Bengal.
	Noakholly	2·0	1·59	1·41	3·30	6·44	11·46	—5·02	84·36	91·47	—7·01	4·0	4·1	Noakholly ...	Noakholly	
	Furreedpore	5 4	2·75	1·30	1·42	1·84	5·95	—4·11	35·04	46·99	—11·35	2·7	3·2	Furreedpore ...	Furreedpore	
	Dacca	7·9	1·40	1·50	1·97	2·32	7·39	—5·17	51·38	51·52	—0·14	3·5	3·1	Dacca ...	Dacca	
	Commillah	4·6	1·45	2·02	2·15	3·33	7·64	—4·31	51·75	58·11	—6·36	3·3	3·5	Commillah ...	Tipperah	
	Mymensingh	6·4	4·80	2·05	2·29	4·81	8·06	—3·25	61·88	57·72	+4·16	2·6	3·3	Mymensingh ...	Mymensingh	
North Bengal.	Bogra	4·4	1·36	0·70	1·60	5·07	6·14	—1·07	53·32	47·99	+5·33	2·0	3 3	Bogra ...	Bogra	North Bengal.
	Serajgunge ...	7·6	0·47	0·64	1 84	3·48	6·86	—3·38	39·87	44·37	—4·50	3·0	3·4	Serajgunge ..	Pubna	
	Rampore Beauleah	2·6	0·34	1·02	2·16	3·32	7·74	—4·42	53·07	44·77	+8·30	2·3	3·1	Rampore Beauleah	Rajshahye	
	Maldah ...	2·3	0·52	0·65	1·70	3·23	7·68	—4·45	44·81	46·34	—1·53	2·0	3·4	Maldah ...	Maldah	
	Dinagepore ...	7·6	0·90	1·60	2 22	3·66	8·13	—4·47	56·55	49·39	+7·16	2·8	3·4	Dinagepore ...	Dinagepore	
	Rungpore	2 0	2·61	0·65	2·13	6·94	8·49	—1·55	68·65	63·54	+5·11	1·5	3·3	Rungpore ...	Rungpore	
	Julpigoree ... / Cooch Behar ...	2·0	1·82	1·29	4·99	15·38	14·09	+1·29	130·32	97·00	+33·32	3·0	4·2	Julpigoree ...	Julpigoree ... ... / Cooch Behar	
	Darjeeling ...	8·3	1·85	2·98	4·57	13·71	12·92	+0·79	142·48	107·43	+35·05	4·3	4·6	Darjeeling ...	Darjeeling Hill Tracts	
	Purneah ... / North Bhagulpore ...	4·1	0·34	0·59	2·61	4·48	8·41	—3·93	64·77	50·38	+14·39	1·2	2·8	Purneah ...	Purneah ... ... / North Bhagulpore ...	North Behar.
	Mozufferpore ...	3·3	0·67	1·32	1·37	1·51	5·36	—3·85	45·11	35·84	+9·27	2·7	2·4	Mozufferpore ...	Mozufferpore	
	Durbhunga	4·3	0·29	0·72	1·56	1·14	6·18	—5·04	51·00	37·84	+13·16	2·8	2·5	Durbhunga ...	Durbhunga	
	Motihari	4·9	1·91	2·65	1·23	3·13	5·22	—2·09	56·79	38·82	+17·97	3·5	2·0	Motihari ...	Chumparun	
	Chupra	2·6	0·52	2·82	1·35	2·82	4·74	—1·92	46·76	34·76	+12·00	3·3	2 6	Chupra ...	Sarun	
	Dehree ...	4·0	0·76											Dehree ...		
	Buxar ... / Arrah ...	5·4 / 4·8	0·95 / 1·25	1·53	1·54	1·90	4·99	—3·09	43·70	33·65	+9·05	2·8	2·7	Buxar ... / Arrah ...	Shahabad	
South Behar.	Gya	5·1	0·53	0·79	1·05	0·84	4·54	—3·70	52·49	35·48	+17·01	2·3	2·3	Gya ...	Gya	South Behar.
	Bankipore ...	5·6	1·19	1·71	1·06	2·03	4·43	—2·40	41·22	34·56	+6·66	2·0	2·6	Bankipore ...	Patna	
	Bhagulpore ... / Monghyr ...	4·6	0·74	0·95	1·36	1·12	5·37	—4·25	45·06	36·71	+8·35	2·0	2·8	Bhagulpore ...	South Bhagulpore ... / Monghyr	
	Doomka ...	1·3	0·09	0·53	2·38	1·67	7·55	—5·88	47·55	43·56	+3·99	1·8	3·2	Doomka ...	Sonthal Pergunnahs...	
	Hazaribagh ...	7·3	2·04		1·90		6·29			45·29			3·3	Hazaribagh ...	Hazaribagh	
Chutia Nagpur.	Ranchi ...	6·4	3·37	1·43 / 1·57	1·82 / 1·57	2·25 / 2·79	6·51 / 5·40	—4·26 / —2·61	41·22 / 34·93	41·92 / 40·54	—0·69 / —5·61	3·7 / 2·5	3·5 / 3·5	Ranchi ...	Lohardugga ... ... / Manbhoom	Chutia Nagpur.
	Chyebassa ...	6·6	2·60	2·51	1·85	3·57	6·17	—2·60	28·60	45·18	—16·58	5·0	3·7	Chyebassa ...	Singbhoom	
	Sibsagar ...	9·1	1·75											Sibsagar ...		
Assam.	Dhubri	6·7	0·13											Dhubri	Assam	Assam.
	Silchar	9·0	7·75											Silchar		

sure. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
ing cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
ean. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of September 18

Meteorological division.	District.	Station.	Rainfall. Saturday, 13th September.	Sunday, 14th September.	Monday, 15th September.	Tuesday, 16th September.	Wednesday, 17th September.	Thursday, 18th September.	Friday, 19th September.	Total. Number of rainy days.	Total. Rainfall week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	.....	0·58	0·99	0·10	.....	0·05	0·20	5	1·92	3·52	6·99	43·01	
		Khurdah ...	0·30	0·15	0·07	0·03	.....	[illegible] 0·13	0·19	6	0·87	8·31	7·68	51·30	
		Banpur ...	1·24	0·81	3·04	.....	1·20	1·50					6·71		39·47
		False Point ...	0·98	0·29	0·08	0·58	0·10	0·33	0·19	7	2·54	3·48	7·81		
		Gop ...											?		
		Satpara ...	1·45	.....	0·25	.....	0·35	0 28					?		
		Pipli ...													
	Cuttack ...	Jagatsingpore	0·18	0·40	.....	0·15	.....	0·17					5·58		
		Banki ...	.....	.....	3·55	0·77	.....	[illegible] 0·14	0·43	4	4·89	6·84	7·91	47·23	
		Cuttack ...	0·37	0·24	0·47	4·10	0·01	0·04	0·06	7	5·29	6·86	7·28	57·50	
		Kendrapara ...	0·09	[illegible] 1·68	0·23	1·36	0·31	0·23	0·12	7	4·09	6·71	5·71	55·41	
		Jajpore ...	1·81	.....	1·85	0·49	0·21	0·56	0·19	6	4·70	0·24	6·79	57·90	
		Dharmsala ...	0·10	0·30	0·27	0·70	0·15						?		
		Salipore ...	0·00	0·54	1·14	.....	0·17	0·41					?		
	Balasore ...	Chandbali ...	0·44	1·36	0·17	1·05	0·35	0·25	.....	6	3·56	5·04	7·36	34·41	
		Bhuddruck ...	.....	.....	0·85	2·09	0·81	0·60	0·15	5	4·53	9·00	7·04	40·56	
		Sorah ...	0·30	0·40	2·40	0·36	0·85	0·08	0·79	7	4·89	5·14	7·13	39·81	
		Balasore ...	.....	0·05	1 19	0·25	0·73	0·81	0·33	6	3·36	3·60	7·28	37·50	
		Jellasore ...	.....	.....	1 81	0·95	0·87	0·12	0 40	5	4·25	4·42	7·17	36 63	
		Haripodah ...	.....	0·35	1·32	0·21	0·51	0·15	.....	5	2·54	2·54	7·32	37·11	
														33·12	
South-West Bengal.	Midnapore ...	Contai ...	.....	0·04	0·52	0·53	0·02	0·74	0·04	6	2·49	2·56	7·63	35·46	
		Sangor Island	.....	1·26	0·32	0·24	0·11	0·20	.....	5	2·13	2·18	7·60	40·50	
		Tumlook ...	0·20	0·10	0·40	0·40	0·10	0·20	.....	6	1·40	6 08	4·97	36·54	
		Midnapore ...	.....	.....	.....	0·52	0·45	0·23	.....	3	1·20	1·97	5·07	33·99	
		Ghatal ...	.....	0·45	.....	0·54	0·07	0·08	.....	4	1·34	1·31	?	28·29	
		Kutrahaty ...	.....	0·26	0·32	0·08	.....	0·34	.....	4	1·00	1·06	?	34·37	
		Garbetta ...	.....	0·09	.....	0·47	.....	[illegible] 0·18	.....	3	0·74	0·74	?		
	24-Pergunnahs	Diamond Harbour ...	.....	0·79	1·45	0·29	.....	0·10	0·32	5	2·86	2·90	7·59	40·88	
		Canning Town ...	.....	0·22	0·45	0·72	0·10	0·23	0·10	6	1·81	2·73	?	48·31	
		Alipore Jail ...	.....	0·10	0·53	0·52	0·08	0·18	0·18	6	1·89	3·44	6·77	34·36	
		Barrackpore ...	.....	.....	0·17	.....	0·27	0·17	.....	3	0·61	0·99	4·77	35·03	
		Dum-Dum ...	.....	.....	0·26	0 23	0·45	.....	.....	3	0 94	3·49	6·37	37 63	
		Haraeet ...	0·16	.....	[illegible] 1·08	.....	.....	.....	1·38	3	2·62	3·85	5·88	45·50	
		Busseerhat ...	.....	1·10	0·05	0·09	.....	.....	0·24	4	1·48	3·03	5·74		
														35·75	
	Howrah ...	Howrah ...	.....	.....	0·20	0·19	0·16	0·61	0·17	5	0·73	0·82	6·19	46·04	
		Mohesreka (*Goloberiah*)	.....	.....	0·14	0·32	.....	0·56	.....	3	1·02	1·76	5·48		
	Hoogbly ...	Serampore ...	.....	0·05	0·18	0·09	0·40	.....	.....	4	0·81	1·32	5·10	39·65	
		Hooghly ...	.....	0·10	.....	0·14	0·31	.....	.....	3	0·55	2·03	4·79	35·09	
		Jehanabad ...	.....	0·15	.....	0·12	0·20	0·11	.....	4	0·58	0·80	5·77	45·78	
														41·78	
	Burdwan ...	Culna ...	.....	0·23	.....	.....	0·43	.....	.....	2	0·66	5·55	4·33	55·95	
		Burdwan ...	.....	0·05	.....	0·06	1·20	.....	.....	3	1·31	5·88	5·45	45·43	
		Cutwa ...	.....	.....	0·37	.....	.....	.....	.....	1	0·37	2·60	5·49	46·46	
		Kanseegunge ...	.....	.....	0·57	0·08	0·40	.....	.....	3	1·05	1·88	5·13	40·38	
		Mankur ...	.....	.....	.....	0·24	.....	.....	.....	1	0·24	0·85	?		
	Bankoora ...	Bankoora ...	.....	0·46	0·43	0·31	0·94	.....	.....	4	2·14	4·01	5·41	45·76	
		Bishenpore ...	.....	.....	.....	0·13	0·96	.....	.....	2	1·09	1·21	6·11	37·60	
		Mallara ...	.....	0·90	0·08	0·30	0·05	.....	.....	4	1·33	1·38	4·85	47·01	
		Khatra ...	.....	0·07	.....	1·40	0·39	0·20	.....	4	2·06	2·31	7·05	29·29	
		Indas ...	0·50	.....	0·37	.....	0·25	.....	.....	2	0·87	1·24	?	48 58	
		Kotalpore ...	.....	0·22	.....	0·32	0·66	0·40	.....	4	1·60	1·60	?	55 25	
		Ando ...	.....	.....	.....	3·13	.....	.....	.....	1	3·13	3·28	?	38·01	
		Ganguajalghati	.....	.....	1·05	1·88	0·11	.....	.....	3	2·94	2·94	?	52·35	
		Kaipore ...	.....	.....	.....	0·65	0·37	0·35	.....	3	1·37	1·98	?	39·89	
		Sonamukhi ...	0·46	.....	.....	.....	.....	.....	.....	1	0·46	0·97	?	40·29	
	Beerbhoom ...	Rh. Soory ...	.....	.....	.....	.....	0·07	0·15	.....	2	0·22	0·76	7·05	47·77	
		Heriampore ...	.....	.....	.....	0·12	.....	.....	.....	1	0·12	4·04	6·96	43·08	
		Rampore Haut ...	.....	.....	.....	0·48	0·55	.....	.....	2	1·03	1·30	7·62	51 69	
		Hotpore ...	.....	.....	.....	.....	.....	.....	.....	1	0·34	1·82	?	41·77	
		Muraras ...	.....	.....	.....	0·62	.....	.....	.....	1	0·65	0·65	?	40·00	
	Nuddea ...	Ranaghat ...	0·19	.....	.....	.....	0·06	0·54	0·03	4	0·82	4·94	4·70	41·88	
		Kishnaghur ...	.....	0·28	.....	.....	0·07	0·79	.....	3	1·14	3·49	5·13	45·15	
		Chooadanga ...	.....	[illegible] 0·60	0·10	.....	.....	0·35	.....	3	1·05	1·18	6 65	31·91	
		Meherpore ...	.....	.....	.....	10·55	.....	.....	.....	3	0·90	0·55	4·91	37·10	
		Koosheea ...	.....	0·03	0·22	.....	.....	0·35	.....			2·98	6·09	37·93	
	Khoolna ...	Satkhira ...	.....	0·38	0·43	0·34	0·21	.....	.....	4	1·35	2·68	5·55	45·95	
		Bagerhat ...	0·35	.....	0·59	0·26	0·19	0·27	.....	5	1·78	3·16	7·13	52·80	
		Khoolna ...	.....	1·13	0·95	0·15	.....	.....	.....	4	1·63	3·18	6·74	42·91	
		Naltpur ...	.....	1·20	0·19	0·50	0·17	.....	.....	4	2·06	2·18	?	45·20	
		Kampai ...	.....	0·10	1·31	.....	0·27	.....	.....	4	1·58	2·24	?		
	Jessore ...	Narail ...	.....	0·18	0·09	.....	.....	0·07	.....	.....	.....	.....	.....	.....	
		Jessore ...	0·48	.....	[illegible] 0·11	.....	0·04	.....	.....	3	0·34	0·39	5·39	38·00	
		Jhenidah ...	.....	1·32	.....	0·22	.....	.....	.....	3	0·63	0·83	5·41	44·47	
		Magoorah ...	.....	0·85	0·05	0·36	0·17	.....	.....	2	1·44	2·07	5·60	43·15	
		Jugunge ...	.....	0·25	0·35	0·25	0·15	.....	.....	4	1·48	1·45	5·53	37·23	
		Abhoynagi ...	.....	.....	.....	.....	.....	.....	.....	4	1·00	3·81	5 56	34·11	
		Patkabari ...	.....	.....	.....	0·60	.....	.....	.....						
	Moorshedabad	Kandi ...	.....	.....	0·69	0·07	.....	0·10	.....	1	0·17	0·41	6·34	47·02	
		Berhampore ...	.....	.....	.....	0·35	0·17	.....	.....	3	0·96	1·33	6·79	44·32	
		Lalbagh ...	.....	.....	.....	0·25	0·42	.....	.....	2	0·67	1·71	7·29	45·13	
		Azimgunge ...	.....	.....	.....	0·09	.....	0·06	.....	2	0·15	3·05	6·69	44·54	
		Jungipore ...	.....	.....	0·11	[illegible] 0·70	0·31	.....	.....	3	1·12	1·59	7·77	36·03	
		Lalgola ...	.....	.....	.....	1·15	0·20	0·25	0·30	4	1·90	3·24	7·98	47·86	
		Jugunge ...	.....	.....	.....	.....	.....	.....	.....				?		
		Abhoynagi ...	.....	.....	.....	.....	0·70	.....	.....	1	0·70	4·83	?	46·42	
		Patkabari ...	.....	.....	.....	0·60	0·10	.....	.....	2	0·70		?		
East Bengal.	Chittagong ...	Cox's Bazar ...	2·51	3·24	.....	0·10	.....	[illegible] 0·09	[illegible] 0·24	5	6·18	10·34	10·60	[illegible] 123·81	
		Chittagong ...	0·66	3·53	.....	0·07							?		
		Kutubdia ...	0·60	0·97									?		
		Satkanya ...	0·04	[illegible] 1·56	0·80	.....	0·55	[illegible] 0·10							
	Chittagong Hill Tracts	Rangmati ...	0·57	0·39	0·61	.....	.....	[illegible] 0·05	.....	4	1·62	5·45	6·23	62·82	
		Mutua ...											7·45		
	Backergunge	Patuakhally ...	.....	.....	0·48	0·15	.....	1·09	0·26	4	1·83	3·89	9·05	55·10	
		Perozapore ...	.....	.....	[illegible] 10·43	0·89	0·13	.....	0·08	4	1·45	2·29	7·03	52·86	
		Barrisal ...	.....	.....	0·25	0·54	0·03	0·70	.....	4	2·09	3·37	6·97	54·03	
		Bhola ...	.....	.....	0·15	0·65	0·50	.....	.....	3	1·30	1·96	7·45	58·53	

nent of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of September 1890 —contd.

...ical on.	District.	Station.	Rainfall. Saturday, 13th September.	Sunday, 14th September.	Monday, 15th September.	Tuesday, 16th September.	Wednesday, 17th September.	Thursday, 18th September.	Friday, 19th September.	Total. Number of rainy days.	Total. Rainfall week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
...NGAL d.		*Gourasadds* ...	.....	.....	0·40	.....	.....	0·05	.....	2	0·45	0·72	?	33·39	
		Bauphai ...	.....	0·45	0·60	0·33	.....	1·45	.....	4	2·83	4·32	?	50·32	
	Noakholly ...	Noakholly ...	.....	0·15	0·87	.....	.....	0·58	0·05	4	1 65	5·81	11·14	75·14	91·20
		Fenny ...	0·17	0·54	0·10	.....	.....	0·30	.....	4	1·27	7·05	11·71	98·77	91·65
		Harishpore ...	.....	0·90									?		?
		Ramgany ...	.....	0·10									?		?
	Furreedpore	Madaripore ...										5·58			
		Furreedpore ...	0·15	1 02	0·22	.....	.....	0·18	.....	1	0·18	7·91	0·65	5·42	31·77	47·25
		Goalundo ...	.....	1·11	1·24	0 21	0·03	.....	.....	4	1·12	7·69	6·96	39·72	49·17
							.....	.....	.....	3	2·56	3·17	5·77	35·41	44·51
	Dacca ...	Munshigunge	.....	0·60	0·10	0·11	.....	.....	.....	3	0·81	2·08	8·59	52·26	59·18
		Dacca ...	.....	.....	0·26	0·59	.....	.....	0 32	3	1·08	1·83	6·89	48·17	50·44
		Narainguuge	0 07	0·16	0·24	0·36	.....	.....	.....	4	0·83	1·27	8 51	50·78	53·07
		Manickgunge	0·04	1·29	1·77	0·16	.....	.....	.....	4	3·26	3·88	5·07	49 99	42·58
		Joydebpore ...	.....	0·34	1·02	0 01	.....	.....	.....	3	1·37	0·85	?	57·71	?
	Hill Tipperah Tipperah ...	Agartola ...	1·55	.....	0·42	0·28	0·52	.....	0·40	5	3·17	5·88	0·98	53·29	59·92
		Comilla ...	.....	0·80	0·17	.....	.....	0·09	.....	3	1·06	2·23	7·03	56 13	62·25
		Chandpore ...	.....	1·10	.....	0·75	.....	.....	.....	3	1·85	2·35	7·94	49·40	63·93
		Brahmunberia	.....	0·05	1·90	0·03	.....	.....	.....	3	1·98	3·52	7·74	47·87	51·99
		Ramchandra-gore ...	0·12	2·05	0·26	.....	0·08	0·18	0·06	6	2·75	3·72	?	65·51	?
		Nasirnagar ...	.....	.....	1·20								?		?
		Daudkandi ...	0·20	0·29	.....	.....	.....	.....	.....	2	0·49	1·24	?	23·67	?
		Kasba ...	0·05										?		?
		Lakshem ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·08	?	63·08	?
	Mymensingh..	Kishoregunge	.....	.....	3·05	...	...	.....	0·03	2	3·08	5·04	8·78	60·73	59·08
		Atia (*Tangail*)	.....	0·65	.....	...	...	.....	.....	1	0·65	1·23	5·85	48·22	45·75
		Mymensingh	3·74	0·02	0·03	0·39	.....	.....	.....	4	4·18	6·52	8·45	65·58	61·58
		Jamalpore ...	.....	.....	0·31	0·09	.....	.....	0·75	3	1·15	3·74	8·18	58·61	53·62
		Netrokona ...	0·17	.....	0·48	0·56	.....	.....	.....	3	1·21	6·98	8·78	51·84	68·99
		Sahorsakhalia	.....	.....	0·25	.....	.....	.....	.....	1	0·25	4·11	?	38·28	?
		Durgapore ...	.....	0 30	.....	1·50	.....	.....	0·03	2	0·03	3·57	?	48·92	?
		Shereporetown	0·41	.....	.....	.....	.....	.....	0·50	1	0·50	0·97	?	52·91	?
		Dewangany ...	.....	.....	.....	.....	.....	.....	.....				?		?
	Pubna ...	Pubna ...	.....	0·74	0·13	0·33	... ...	.....	.....	3	1·19	1·46	7·11	54·55	44·60
		Serajgunge ...	0·37	.....	0·08	0·03	... ...	.....	.....	1	0·48	0·48	6·60	45·11	44·14
	Bogra ...	Sherepore ...	0·11	0·15	0·23	.....	.....	.....	.....	3	0·49	7·48	5·83	50·08	48·60
		Nowkhilla ...	0·39	.....	.....	.....	.....	.....	.....	1	0·39	4·99	4·87	40·73	43·73
		Bogra ...	1·40	.....	0·04	.....	.....	.....	.....	2	1·44	4·49	6 04	53·43	52·06
		Panchbibi ...	.....	.....	0·26	0·23	.....	.....	.....	2	0·49	3·09	7·23	53·04	47·40
	Rajshahye ...	Baulesh ...	.....	.....	0·19	0·14	.....	.....	.....	2	0·33	2·88	6·87	52·97	43·35
		Nattore ...	0·66	.....	0·36	0·05	.....	.....	.....	3	1 07	4·78	7·36	61·26	45·18
		Naogaon ...	.....	.....	0·88	0·18	.....	.....	.....	2	1·06	2·98	8·69	45·39	45·78
		Lalpore ...	.....	.....	0·33	.....	.....	.....	.....	1	0·33	2·95	?	35·36	?
		Manda ...	.....	.....	0·10	.....	.....	.....	.....	1	0·10	0·90	?	29·42	?
	Maldah ...	Maldah ...	.....	.....	0·30	0·22	.....	.....	.....	2	0·52	2·83	8·08	46·15	43·02
		Chanchal ...	.....	.....	0·22	0·56	.....	.....	.....	2	0·78	3·02	7·29	48·44	49·63
		Gajol ...	.....	.....	1·35	0 13	.....	.....	.....	4	1·53	4·73	?	49·45	?
		Sibganj ...	.....	.....	0·26	.....	.....	.....	.....	1	0·26	0·77	?	42·43	?
	Dinagepore ...	Mohadebpore	0·18	0·29	0·31	... ...	.....	.....	0·34	4	1·12	1·12	7·54	42·53	49 06
		Churamon ...	.....	0·07	1·02	.....	.....	.....	.....	2	1·09	2·20	9·55	59·35	46·48
		Raigunge ...	.....	.....	0·23	0·12	.....	.....	0·05	3	0·40	3·32	7·80	61·34	54·04
		Dinagepore ...	.....	.....	0·23	0·12	.....	.....	.....	2	0·35	2·85	7·95	66 08	51·09
		Balooarhat ...	.....	1·10	0·09	0·62	.....	.....	.....	3	1·81	3·76	7·81	53·51	45·49
		Thakoorgaon ...	.....	.....	1·45	0·11	.....	.....	.....	2	1·56	3·40	?	79·71	?
	Rungpore ...	Buxeesinkunge (*Gyadanda*)	.....	.....	.....	0·20	.....	.....	.....	1	0·20	3·60	7·86	64·28	52·72
		Runkpore ...	.....	.....	1·87	0·04	.....	.....	.....	2	1·91	2·32	6·97	58·92	64·35
		Kurigram ...	.....	.....	0·13	.....	.....	.....	.....	1	0·13	1·40	6·40	60·44	63·85
		Hastigora (*Nilphamari*)	.....	012	0·25	.....	.....	.....	.....	2	0 37	4·92	?	62·11	?
		Ulipore ...	.....	.....	0·38	.....	.....	.....	.....	1	0 38		?		
	Julpigoree ...	Julpigoree ...	1·80	.....	.....	0·13	.....	.....	0·85	3	2·78	14·16	10·31	130·86	103·39
		Alipore Doosr	.....	.....	.....	0·23	.....	.....	2·40	3	2·63	32·11	?	165·24	?
		Fallacotta ...	.....	0·73	0·13	0·55	.....	.....	2·35	3	1·41	7·50	?	90·20	?
		Debigunj ...	.....										?		?
	Cooch Behar.	*Bhagalpore* (*Nagrakatta*)	.....	.....	0·03	0 31	.....	.....	11·97	3	12·01	30·92	?	160·97	?
		Dinhatta ...	0·03	.....	0·12	0·05	.....	.....	0·18	4	0·38	17·03	13·05	102 02	85·01
		Cooch Behar ...	0·20	.....	0·88	.....	.....	.....	0·86	3	1·94	14·20	11·84	138·70	104·01
		Mekirgunge ...	.....	.....	.....	0 79	.....	.....	.....	3	0·79	8·94	13·36	122·38	99·69
		Mataibhanga ...	.....	0·90	0·08	0·19	.....	.....	0·33	4	0·57	15·09	13·28	146·53	99·27
			0·01	0·48	0·52	0·07	.....	.....	4·01	5	5·09	23·01	21·06	184·53	170·06
	Darjeeling Hill.	Buxa ...	0·04	0·94	2·08	0·03	.....	.....	1·23	5	2·01	20·18	10 88	154·51	93·61
		Silliguri ...	1·25	0·95	0·94	0·39	.....	.....	0·05	5	1·85	6·12	12·03	129·73	94·47
		Darjeeling ...	0·08	.....	0·08	0·57	.....	.....	0·72	4	1·45	6·49	7·12	101·80	79 96
		Kalimpong ...	0·14	0·12	1·13	0·22	.....	.....	0·14	5	1·74	10·81	?	167·43	?
Behar	Purneah ...	Kissengunge ...	0·28	.....	0 65	.....	.....	.....	.....	2	0·93	3·73	8 02	79·58	61·08
		Arrareah ...	... ...	.....	.....	1·27	.....	.....	.....	1	1·27	6·11	10·35	67·23	54 93
		Purneah ...	.....	.....	0·30	0·04	.....	.....	.....	2	0·34	11·42	?	73 20	53·25
		Gondwara ...											?		?
		Saharampore ...	.....	0·08	0·73	.....	.....	.....	0·20	2	0·28	0·31	3·76	77·09	?
		Matiari ...								2	0·20	8·02	?	55·11	?
		Kaliaganj ...	1·26	.....	.....	0·30	.....	.....	.....	2	1·56	14·75	?	101·24	?
		Maddaguri ...		.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	7·02	61·01	41·36
	North Bhagulpor	Scopool ...	.....	.....	0·13	.....	.....	.....	.....	1	0·41	0·75	6·65	53·10	41·48
		Protabganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·99	?	40·54	?
	Durbhunga ...	Tajpore ...	.....	.....	.....	0·70	0·43	.....	.....	2	0·20	0·29	6·45	51·91	38·98
		Durbhunga ...	.....	0·06	0·04	0·05	0·14	.....	.....	4	0·70	1·00	6·65	52·23	
		Madhubani ...	.....	0·70	.....	.....	.....	.....	.....	1	0·15	0·55	?	43·05	
		Bahere ...	.....	.....	0·15	.....	.....	.....	.....	2	1·05	1·05	?	44·11	?
		Rosheva ...	.....	0·10	0·60	0·95	.....	.....	.....				?		?
	Mozufferpore	Sitamarhi ...	.....	.....	0·47	.....	.....	.....	.....	1	0·47	0·83	6·11	48·88	36·43
		Mozufferpore	.....	.....	0·06	0·14	0·42	.....	.....	3	0·62	0·84	5·91	49·45	37·06
		Hajipore ...	.....	0·38	0·15	1·23	1·14	.....	.....	3	2·85	2·85	4 05	52·00	33·93
		Pare ...	.....	.....	.....	0·80	1·20	.....	.....	2	1·70	2·04	?	52·23	?
		Mahua ...	.....	0·47	0·47	0·35	.....	.....	.....	3	1·29	1·75	?	40·49	?
		Sishar ...	.....	.....	2·05	0·35	0·15	.....	.....	3	2·53	2·75	?	41·68	?
		Pupri ...	.....	.....	.....	0·49	0·09	.....	.....	2	0·58	0·58	?	44·49	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of September 1890—co

Meteorological Division.	District.	Station.	Rainfall. Saturday, 13th September.	Sunday, 14th September.	Monday, 15th September.	Tuesday, 16th September.	Wednesday, 17th Sept.	Thursday, 18th September.	Friday, 19th September.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Av. ra. fro. M. c.
North Behar —*concluded.*	Chumparun...	Motihari ..	.....	.....	1·26	0·19	0·43	.....	.....	3	1·88	1·88	5·87	56·82	
		Bettiah ...	.....	1·08	0·45	1·20	0·68	.....	.....	4	3·41	4·35	4·56	50·72	
		Bagaha ...	.....	1·02	5·52	0·78	0·42	.....	.....	4	7·74	9·44	?	76·94	
		Burhurwa ...	.....	1·05	0·06	1·13	1·30	.....	.....	4	3·54	3·58	?	50·64	
	Sarun ...	Gopalgunge ...	0·12	0·90	0·81	0·18	.....	.....	.....	4	2·07	2·07	4·96	45·68	
		Sewan .	4·41	0·41	0·71	0·35	.....	.....	.....	4	5·88	5·88	5·01	53·30	
		Chuprah ...	.....	.....	0·39	0·12	.....	.....	.....	2	0·51	0·51	4·23	41·29	
South Behar	Shahabad	Buxar .	.....	0·29	.....	1·70	.....	.....	.....	2	1·99	1·99	4·95	44·20	
		Dehree .	.....	.....	0·26	0·43	0·07	.....	.....	3	0·76	0·76	6·33	38·20	
		Bhaboosh ...	.....	0·10	0·05	2·20	.....	.....	.....	3	2·35	2·35	4·67	35·24	
		Sasseram ...	.....	0·35	0·02	0·65	.....	.....	.....	3	1·02	1·02	4·45	37·61	
		Arrah ...	.....	0·36	.....	1·10	0·05	.....	.....	3	1·51	3·35	4·57	58·10	
		Mohaniah ..	.....	0·30	0·90	.....	.....	.....	.....	2	1·20	1·20	?	30·07	
	Gya ..	Aurungabad...	.....	.....	0·79	0·58	0·15	.....	.....	3	1·52	1·52	4·94	55·47	
		Gya ...	.....	.....	.....	.....	0·53	.....	.....	1	0·53	0·53	4·83	54·21	
		Nowadah ...	.....	.....	.....	0·30	0·14	.....	.....	2	0·44	0·65	4·04	51·26	
		Johanabad ...	0·01	.....	.....	0·30	0·27	.....	.....	3	0·67	0·67	3·73	49·03	
		Arwal .											?		
		Daudnagar .	.....	0·30	0·40	0·20	.....	.....	.....	3	0·90	0·90	?	25·85	
		Sherghati ..	.....	.....	.....	0·10	0·45	.....	.....	2	0·55	0·55	?	31·08	
		Ragauli	.....	.....	.....	0·33	0·15	.....	.....	2	0·48	0·48	?	41·80	
		PakriBarawan	.....	.....	.....	0·90	.....	.....	.....	1	0·90	0·90	?	48·48	
	Patna ..	Patna ...	.....	0·02	.....	0·65	0·52	.....	.....	3	1·19	1·35	4·34	45·41	
		Dinapore ..	.....	.....	0·25	2·95	.....	.....	.....	2	3·20	3·20	4·03	43·82	
		Behar ...	.....	.....	.....	0·83	0·22	.....	.....	2	1·05	2·15	4·77	40·01	
		Barrh ...	.....	.....	.....	1·30	.....	.....	.....	1	1·40	1·40	4·59	35·60	
		Bickram ...	0·11	.....	.....	0·84	0·09	.....	.....	3	1·04	1·04	?	52·38	
		Hilsa ...	.....	.....	.....	2·67	.....	0·14	.....	2	2·81	2·81	?	44·73	
	Monghyr ...	Begoosarai ...	.....	.....	.....	0·40	0·39	.....	.....	2	0·79	1·41	4·96	37·60	
		Monghyr .	.....	.....	.....	0·67	0·83	.....	.....	2	1·50	1·50	6·36	47·18	
		Jamui ...	.....	.....	.....	0·56	0·32	.....	.....	2	0·88	0·88	4·93	54·01	
		Gogri ...	.....	.....	0·30	0·45	0·63	.....	.....	3	1·38	1·38	?	65·89	
		Sheikpura ...	.....	.....	.....	.....	0·18	.....	.....	1	0·18	0·18	?	41·84	
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	0·65	0·06	.....	.....	2	0·71	0·80	5·53	50·48	
		Banka ..	.....	.....	.....	0·06	0·22	.....	.....	2	0·88	1·00	5·07	35·98	
		Kolgong ...	.....	.....	0·25	0·90	.....	.....	0·11	3	1·26	1·26	?	49·66	
		Bangaon ...											?		
	Sonthal Per gunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·41	8·99	40·07	
		Godda ...	.....	.....	.....	0·16	0·30	.....	.....	2	0·46	0·46	6·32	41·90	
		Pakour ..	.....	.....	0·82	0·11	.....	.....	.....	2	0·93	2·11	9·80	53·38	
		Nya Doomka	.....	.....	0·20	0·65	0·13	.....	.....	3	0·98	2·96	7·78	57·92	
		Deoghur ..	.....	.....	.....	0·36	0·16	.....	.....	2	0·52	0·99	6·01	40·89	
		Jamtara ...	.....	.....	.....	0·15	0·12	.....	.....	2	0·27	1·08	5·21	51·16	
		Mohagama ...	.....	.....	.....	0·15							?		
		Nawnat ...	0·02			0·12							?		
Chutta Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	.....	.....	0·15	0·16	0·27	.....	.....	3	0·58	1·99	6·32	47·52	
		Hazaribagh ...	.....	.....	.....	1·31	0·70	0·03	.....	3	2·04	2·04	5·87	42·00	
		Semtagurah ...	.....	.....	1·00	0·75	... ..	.....	.....	2	1·75	2·21	5·93	33·20	
		Mahudi Hills											5·49		
		Jhoomra Hills											8·10		
		Barhi ...	.....	.....	.....	0·60	0·23	.....	.....	2	0·83	1·21	?	43·76	
		Chatra ...	.....	.....	0·75	0·50	0·42	.....	.....	3	1·67	1·67	?	43·14	
		Karagdeha ...	.....	0·07	0·33	0·10	0·33	.....	.....	4	0·83	0·95	?	40·32	
		Kamghar ...	.....	.....	.....	.....	1·20	.....	.....	1	1·20	1·20	?	39·86	
	Lohardugga ...	Lohardugga...	.....	.....	0·38	0·50	0·35	.....	.....	3	1·23	2·18	7·53	47·68	
		Ranchi ...	.....	0·12	0·07	2·05	0·23	0·05	.....	5	2·52	3·37	6·44	35·11	
		Palamow ...	.....	.....	0·30	0·17	0·06	.....	.....	3	0·53	1·20	5·57	40·94	
		Silli ...	.....	.....	.....	0·60	1·80	.....	.....	2	2·40	2·40	?	32·70	
		Balumat ...											?		
		Hosseinabad											?		
		Garwah ...	.....	2·62	0·40								?		
	Singbhoom ...	Chyebassa ...	.....	0·05	1·06	1·04	0·29	0·07	.....	5	2·51	3·57	6·17	28·60	
		Chakradharpore.											?		
		Ghatsilla ...	0·30	0·42	0·30	0·30	0·10	0·23	.....	6	1·67	2·49	?	39·44	
		Baharagora	.....	0·15	0·41	0·33	0·57						?		
	Manbhoom ...	Purulia ...	.....	.....	.....	1·74	0·16	0·14	.....	3	2·04	2·50	5·20	38·10	
		Gobindpore ...	.....	.....	.....	0·92	.....	0·77	.....	2	1·69	3·07	5·60	31·74	
		Kashunathpore.	.....	.....	0·50	1·10	.....	.....	.....	2	1·60	3·35	?	38·87	
		Barrabhoom	.....	.....	0·80	0·50	0·34	.....	0·12	4	1·76	2·03	?	38·30	
		Jhalda ...	.....	.....	0·25	0·71	0·19	.....	.....	3	1·15	1·96	?	40·34	
		Chas ...	.....	.....	.....	1·20	0·38	.....	.....	2	1·58	1·68	?	41·14	

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of th are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 23rd September* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 19TH OF SEPTEMBER 1890.

THE only noteworthy peculiarities in the weather during the past week are:—

(1) The shallow depression which gradually formed over Orissa and the adjacent part of the Bay, and which, after being displaced southwards by the rapid rise of pressure in Northern India about the middle of the week, intensified slightly in the Circars, but practically filled up on the 19th, the last day of the week.

(2) The scattered rainfall in all districts except Orissa, with heavier and more general showers on Monday and Tuesday in the eastern districts and on Tuesday and Wednesday in the west of the province, the total falls being deficient except in Orissa.

As the shallow depression remained to the south-west of Bengal throughout the week, the wind circulation has been almost unchanged except in the south-west corner where, from northerly, directions changed to east about the middle of the week, when the depression was displaced to the south. On the last two days the tendency was for southerly winds to set in at the inland stations, as pressure was falling in the west of Behar and was very little higher than in the Circars, where the low-pressure area was filling up. On Sunday the 14th, pressure was changing very slightly, and was only two or three-hundredths of an inch below the normal. South-easterly winds were blowing at all stations, and the air was heavily charged with moisture in the east, as very heavy rain was falling at Akyab, Chittagong, and Silchar. On the 15th lowest pressure was at False Point, and the depression seemed to be moving towards the north, while rainfall had become fairly heavy and general in East and North Bengal. Gradients were steeper over the Bay and about normal in Bengal, but on the following day a rapid rise of pressure commenced in the north, continuing on the 17th, whereby gradients became steeper in Bengal, and strongly easterly winds, but of only average velocity, blew over the whole province. After that lowest pressure was at Vizagapatam, and increased on the 17th from 29·619 to 29·717 inches, and winds from being north or west in Orissa changed to east as at the other Bengal stations. Rainfall had almost ceased at eastern stations on the 17th, but was fairly general in South-West Bengal, Orissa, and Behar, amounts however being generally small. The depression intensified somewhat on the 18th, the centre being still close to Vizagapatam, moderately heavy rain falling in the Circars; but in Bengal its influence was ceasing and wind directions were becoming southerly. On Friday southerly winds were blowing at nearly all stations, and though showers continued in Orissa, South-West Bengal, and part of North Bengal, in the other districts rainfall was practically absent.

Pressure—On an average has been slightly above the normal, and changes have been small except in the middle of the week when the rapid rise occurred, commencing in the northern districts. On the 16th the rise was about ·12 inch in North Bengal, and slightly under a tenth in East Bengal, but diminished to less than ·05 inch in Chutia Nagpur. On the 17th the most rapid rise was in Chutia Nagpur, where it exceeded ·17 inch, and from there it gradually diminished to ·07 inch in North and East Bengal and 12 inch in Orissa. The wave appears to have entered the province from the north-east and crossed towards the south-west. Mean pressure is below the normal at Gopalpur, False Point and the stations in the west of Behar, and above elsewhere by small amounts ranging up to ·04 inch.

Temperature—On an average has been below the normal in Orissa, practically normal in Chutia Nagpur and South-West Bengal, and above the normal in the other districts, by ·7° in Behar, ·8° in East Bengal, and 1° in North Bengal.

Rainfall—Has been above the normal in Orissa by nearly one inch, and below in all the other districts by less than half an inch, except North Bengal, where defect is 1·66 inches, the average fall being only ·92 inch. The average fall in Orissa is 3·66 inches, in East Bengal 1·96 inches, in Chutia Nagpur 1·58 inches, and in the other districts, except North Bengal, between 1 and 1·5 inches. As stated above, almost general rain has been received in Orissa and the adjacent parts of South-West Bengal throughout the week, and that general rainfall elsewhere was chiefly on Monday and Tuesday in the eastern districts, and on Tuesday and Wednesday elsewhere. The falls at the various stations are very irregular, but in many cases do not exceed 1 inch, and only in a few 2 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 19th of September 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	91·4	76·6	87·2	78·5	82·8	−0·6	3·66	2·78	+0·88	5·5	3·8	+1·7	5·80	6·98	40·64	41·51
South-West Bengal ...	94·6	75 2	89·4	78·3	83·9	+0·1	1·14	1·49	−0·35	3·3	3·2	+0·1	2·30	6·03	41·52	43·63
East Bengal	91·3	75·3	88·1	78·6	83·4	+0·8	1·96	2·18	−0·22	3·5	3·7	−0·2	4·09	7·96	61·56	63·01
North Bengal	94 5	75·1	89·6	78·9	84·3	+1·1	0·92	2·59	−1·66	2·4	3 4	−1·0	6·66	8·88	70·00	59·60
North Behar	94·3	71·4	90·5	76·9	84 7	+0·7	1·43	1·77	−0·34	2·4	2 5	−0·1	2·82	0·33	54·14	40·90
South Behar	96·0	69·7?	90·9	78·1	84·5	+0·7	1 06	1·55	−0·49	2·2	2·7	−0·5	1·52	5 49	45·81	37·21
Chutia Nagpur	90·5*	68·9*	84·7*	71·2*	78·0*	−0·1*	1·58	1·81	−0·23	3·1	3·5	−0 4	2·21	6·17	39·05	42·57

* Chyebassa not included.

Meteorological Office, Bengal ;
The 23rd September 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 14th to 20th September 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
September...	14th ...	29·696	81·4	87·0	11·3	75·7	79·6	78·3	·952	77·7	94	0·80
...	15th ...	·638	83·8	89·8	12·0	77·8	87·6	82·3	1·034	80·3	79	0·30
,, ...	16th ...	·721	84·3	89·0	9·4	79·6	83·8	80·5	·998	79·2	86	0·53
,, ...	17th ...	·827	83·7	89·0	10·7	78·3	87·1	81·0	·977	78·5	76	0·06
,, ...	18th ...	·818	83·7	89·0	10·7	78·3	84·6	81·5	1·035	80·3	87	...
,, ...	19th ...	·782	83·0	88·2	10·4	77·8	86·1	80·5	·967	78·2	78	0·16
,, ...	20th ...	·760	84·0	89·2	10·4	78·8	86·4	81·5	1·010	79·5	80	0·01

		Inches.
The mean 10 A.M. pressure of the seven days	... ...	29·749
The mean temperature of the seven days	... ...	83·4
The extreme variation of temperature	... ...	14·1
The maximum temperature ...	... ...	89·8
		%
The mean 10 A.M. relative humidity of the seven days	... ...	83
		Inches.
The total fall of rain from 14th to 20th September 1890	... ...	1·86

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 22nd September 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 14th to 20th September 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Sept.	14th	133·5	0·2	29·639	80·6	83·8	8·6	75·2	78·5	0·946	77·5	90	E by S, ESE and calm.	64	0·49	Chiefly cloudy, o, g, d, p.
,,	15th	156·5	5·3	·587	82·2	87·5	10·3	77·2	79·3	·964	78 1	88	E by N and E ...	148	0·23	Partially cloudy, o, g, d, p. t, p.
,,	16th	151·2	5·4	·672	82·8	87·5	10·1	77·4	79·4	·961	78·0	86	E by S, ESE and SE by S.	141	0·09	Partially cloudy o, g, d, p
,,	17th	146·8	4·4	·778	82·9	87·5	9·9	77·6	79·6	·973	78·4	87	E and calm ..	69	0·48	Chiefly cloudy, p, t, p.
,,	18th	142·5	1·7	·750	82·0	87·5	10 2	77·3	79·4	·971	78·3	89	ESE and calm ...	48	0·22	Chiefly cloudy, o, t, p, p.
,,	19th	153·5	5·1	·721	82·4	87·5	10·7	76·8	79·4	·967	78·2	88	SSW and calm ...	33	0·01	Partially cloudy, d, t, p.
,,	20th	150·5	5·4	·701	82·2	87·5	10·6	76 9	78·8	·940	77·3	85	Calm and variable...	51	Nil	Partially cloudy, t, p.

	Inches.
The mean pressure of the seven days	29·693
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·679
	Hours.
The total number of hours of bright sunshine	27·5
The maximum possible number of hours of sunshine	85·4
	°
The mean temperature of the seven days	82 2
The average temperature of the corresponding period for 24 years, S.-G.'s Office	83·3
The extreme variation of temperature	12·3
The maximum temperature	87·5
	Miles.
The highest velocity of the wind in one hour	15
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	88
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	86
	Inches.
The total fall of rain from 14th to 20th September 1890	1 52
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	2·31
The total fall from 1st January to 20th September 1890	42·75
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	55·95

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; p, passing temporary showers; t, thunder; ⁀, dew.

N. B.—In the weekly report from 31st August to 6th September 1890 read "89·7" for "89" as the maximum of the 1st, and also read "1·017" for "10·17" as the vapour tension of the 2nd September 1890.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 6th September 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 6th September 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 26·3 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·5 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	28·9	24·1	18·2	23·0	19·1	22·8	26·3

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING— 16th August 1890.	23rd August 1890.	30th August 1890.	6th Sept. 1890.	TOWNS.	WEEKS ENDING— 16th August 1890.	23rd August 1890.	30th August 1890.	6th Sept. 1890.
Burdwan	15·3	16·8	27·5	53·4	Naraingunj	33·1	16·6	12·4	29·0
Midnapore	12·4	18·6	17·0	17·0	Chittagong	16·4	9·4	4·7	9·4
Hughli and Chinsurah	6·6	14·8	28·5	39·4	Comillah	11·6	19·3	34·7	27·0
Serampore	23·6	13·7	31·4	30·3	Patna City	13·6	15·3	10·1	17·2
Uttarpara	9·4	37·7	9·4	37·7	Gya	28·7	31·4	26·0	30·1
Howrah	18·3	21·8	17·2	13·2	Arrah	26·3	41·9	16·7	79·0
Bali	7·0	11·1	12·0	10·5	Mozufferpore	18·2	18·2	9·7	25·5
Krishnagar	13·3	18·9	11·4	34·1	Durbhanga	18·1	18·9	37·0	23·0
Ranaghat	6·0	12·0	.....	6·0	Chupra	12·1	18·1	4·0	25·2
Santipore	14·0	14·0	7·0	22·8	Bhagulpore	25·3	24·4	25·3	30·8
Jessore	.....	12·2	.....	.....	Monghyr	40·7	37·1	28·0	45·2
Rampore Beauleah	36·8	34·2	42·0	34·2	Purneah	6·9	...	10·4	20·8
Darjiling	22·2	88·9	133·4	29·6	Poori	6·3	12·6	4·2	10·5
Dacca	17·5	10·4	16·9	11·7	Total ...	18·7	20·7	19·0	26·3

It will be seen that last week the highest birth-rate was returned from Arrah (79·), and the lowest from Ranaghat (6·). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 28·4 per 1,000 of the population. The rate of the week is 2·8 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887 and 1889—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	42·5	29·4	22·7	35·7	25·5	31·3	28·4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

TOWNS.	WEEKS ENDING— 16th August 1890.	23rd August 1890.	30th August 1890.	6th Sept. 1890.	TOWNS.	WEEKS ENDING— 16th August 1890.	23rd August 1890.	30th August 1890.	6th Sept. 1890.
Burdwan	10·7	16·8	24·4	16·8	Naraingunj	16·6	34·8	12·4	16·6
Midnapore	17·0	23·2	9·3	17·0	Chittagong	21·1	16·4	9·4	18·8
Hughli and Chinsurah	31·2	19·7	36·1	18·1	Comillah	23·1	26·9	11·6	19·3
Serampore	58·4	49·1	33·4	43·2	Patna City	15·3	30·4	15·2	26·9
Uttarpara	37·7	18·9	28·3	28·3	Gya	56·7	66·3	58·7	58·1
Howrah	19·5	17·3	19·5	10·9	Arrah	13·2	18·0	9·4	20·9
Bali	24·6	28·1	31·6	14·0	Mozufferpore	20·7	25·5	12·5	28·7
Krishnagar	11·4	15·1	9·5	11·4	Durbhanga	27·5	14·9	44·8	39·5
Ranaghat	12·0	20·9	12·0	12·0	Chupra	15·1	16·1	11·1	32·5
Santipore	14·0	26·3	8·5	15·8	Bhagulpore	24·4	13·6	19·0	23·6
Jessore	18·4	55·1	18·4	36·7	Monghyr	21·7	22·6	21·7	27·1
Rampore Beauleah	34·2	26·3	21·0	18·4	Purneah	15·9	24·2	20·8	10·4
Darjiling	66·6	97·0	44·5	59·3	Poori	25·2	43·0	35·8	46·8
Dacca	20·1	24·7	20·1	15·0	Total ...	23·5	24·8	22·9	28·4

It will be seen that last week the highest mortality occurred in the town of Chupra (82·5) and the lowest in Purneah (10·4).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per *mille.*	*Small-pox.*	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Chupra ...	53·3	Mozufferpore	7·3	Jessore ...	30·6	Darjiling ...	29·6	Poori ...	23·1
Durbhanga ...	18·1			Darjiling ...	29·6			Gya ...	19·8
Patna City ...	11·0			Gya ...	27·3			Serampore ...	17·7
Gya ...	9·6							Chupra ...	13·1
Arrah ...	9·6							Midnapore ...	10·8
Mozufferpore...	6·1								

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 7· from cholera, against 3· per 1,000 in the preceding week; ·3 from small-pox, against ·1; 10·5 from fever, against 9·4; 3·4 from bowel-complaints, against 4·3; ·4 from injury, against ·3; and 6·8 from other causes, against 5·8 in the preceding week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	28·6	Christians ...	7·5	Under 1 year	192·6
Females	28·2	Hindus ...	28·8	1 and under 5 years	57·1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	101	Mahomedans ...	28·1	5 „ 10 „	21·7
				10 „ 15 „	11·3
				15 „ 20 „	14·1
				20 „ 30 „	16·3
				30 „ 40 „	15·7
				40 „ 50 „	19·5
				50 „ 60 „	32·2
				60 years and upwards	64·1

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 22nd September 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 6th September 1890.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.															Sex.			
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	20	15	35	30·5	22·9	53·4	133	..	...	7	3	...	1	11	...	...	10·7	4·6	...	1·5	16·8	24·4	7	4	20·2	13·0	155
Midnapore ...	Midnapore ..	16,927	16,633	33,560	3	8	11	4·6	12·4	17·0	37	...	...	2	2	...	7	11	...	...	3·1	3·1	...	10·8	17·0	9·3	2	9	6·1	28·1	21
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	7	17	24	11·5	27·9	39·4	41	...	...	5	2	...	4	11	...	...	8·2	3·3	...	6·6	18·1	36·1	6	5	19·7	16·4	120
Serampore ...	Serampore ...	13,559	12,937	26,496	13	8	20	23·6	15·7	39·3	150	...	...	9	5	...	9	22	...	...	15·7	9·8	...	17·7	43·2	33·4	14	8	53·7	32·2	166
	Utterpara	3,046	2,464	5,510	2	2	4	18·8	18·8	37·7	100	1	..	...	1	...	1	3	9·4	...	...	9·4	...	9·4	28·3	28·3	2	1	34·1	21·1	161
Howrah ...	Howrah	53,153	37,669	90,818	11	12	23	6·3	6·9	13·2	91	...	...	7	4	...	8	19	...	...	4·9	2·3	...	4·6	10·9	19·5	14	5	13·7	6·9	198
	Bali	7,836	6,979	14,815	2	1	3	7·0	3·5	10·5	200	...	...	1	2	...	1	4	..	...	3·5	7·0	...	3·5	14·0	31·6	3	1	19·9	7·5	265
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	9	9	18	17·0	17·0	34·1	100	...	...	3	...	...	3	6	...	...	5·7	...	...	5·7	11·4	9·5	4	2	15·7	7·3	215
	Ranaghat	4,625	4,655	8,683	1	...	1	6·0	...	6·0	No female birth.	...	..	2	...	...	...	2	..	...	12·0	...	...	...	12·0	12·0	...	2	...	22·3	No male death.
	Santipore	15,708	15,979	29,687	7	6	13	12·3	10·5	23·8	116	2	..	5	1	...	1	9	3·5	...	8·8	1·7	...	1·7	15·8	8·9	5	4	19·0	13·0	146
Jessore ...	Jessore	4,830	3,665	8,495	...	...	...	...	...	...	...	...	...	5	...	1	...	6	...	...	30·6	...	6·1	...	36·7	18·4	1	5	10·8	70·9	15
Rajshahye ...	Rampore Beauleah	16,766	9,025	19,791	10	3	13	26·3	7·9	34·2	333	..	...	6	...	...	1	7	...	...	15·8	...	...	2·6	18·4	21·0	2	5	9·7	28·8	33
Darjiling ...	Darjiling	4,579	2,439	7,018	3	1	4	22·2	7·4	29·6	300	...	..	4	4	.	...	8	...	...	29·6	29·6	...	..	59·3	44·5	6	2	68·1	42·6	159
Dacca ...	Dacca	42,782	37,379	80,161	9	9	18	5·8	5·8	11·7	100	2	...	9	5	1	3	20	1·3	...	5·8	3·2	·6	1·9	13·0	20·1	12	8	14·6	11·1	131
	Narainganj ...	7,665	4,956	12,561	2	5	7	8·3	20·7	29·0	40	...	..	1	2	...	1	4	...	...	4·1	6·3	...	4·1	16·6	12·4	3	1	20·5	10·5	195
Chittagong ...	Chittagong ...	13,340	8,790	22,130	...	4	4	...	9·4	9·4	No male birth.	...	..	4	2	..	2	8	...	...	9·4	4·7	...	4·7	18·8	9·4	5	3	19·5	17·7	110
Tipperah ...	Comillah	8,153	5,353	13,506	5	2	7	19·3	7·7	27·0	250	...	.	4	...	...	1	5	...	...	15·4	...	...	3·9	19·3	11·0	4	1	25·5	9·7	262
Patna	Patna City ...	78,762	81,475	160,237	34	19	53	11·0	6·2	17·2	179	34	...	18	12	1	18	83	11·0	...	5·8	3·9	·3	5·8	26·9	16·2	43	40	28·4	25·5	111
Gya	Gya	38,290	37,831	76,121	23	21	44	15·7	14·3	30·1	109	14	...	49	2	...	29	85	9·6	...	27·3	1·4	...	19·8	58·1	58·7	39	46	53·0	63·2	83
Shahabad ...	Arrah	20,960	22,505	43,465	35	31	66	41·9	37·1	79·0	113	8	...	11	...	1	5	25	9·6	...	13·1	...	1·2	6·0	29·9	8·4	14	11	34·7	25·4	136
Mozufferpore .	Mozufferpore ...	23,064	19,658	42,742	10	11	21	12·1	13·4	25·5	91	5	6	2	...	1	3	17	6·1	7·3	2·4	...	1·2	3·6	20·7	19·5	12	5	27·0	13·2	204
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	13	15	28	10·2	11·6	22·0	86	23	...	19	6	...	3	50	13·1	...	14·1	4·7	...	2·4	39·3	44·3	17	33	26·2	53·1	49
Saran	Chupra	25,116	26,554	51,670	7	18	25	7·0	13·1	25·2	39	53	...	10	5	1	13	82	53·3	...	10·1	5·0	1·0	13·1	82·5	11·1	48	34	99·4	66·6	140
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	14	20	34	13·7	18·1	30·8	70	...	..	16	4	...	6	26	...	...	14·5	3·6	...	5·4	23·5	19·0	13	13	22·8	24·3	93
Monghyr ...	Monghyr	28,154	29,366	57,520	19	31	50	17·2	23·0	45·2	61	1	...	15	5	1	8	30	·9	...	13·6	4·5	·9	7·2	27·1	21·7	15	15	27·7	26·6	104
Purneah ...	Purneah	8,463	6,553	15,016	3	3	6	10·4	10·4	20·8	100	...	...	3	...	...	...	3	...	...	10·4	...	...	...	10·4	20·9	1	2	6·1	15·9	38
Poori	Poori	13,247	11,537	24,784	4	1	5	8·4	2·1	10·5	400	...	...	9	2	1	11	23	...	...	18·9	4·2	2·1	23·1	48·3	25·2	11	12	43·2	54·1	80

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO— Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan ...	Burdwan	...	6	5	...	...	...	13·2	25·3	...	...
Midnapore ...	Midnapore ...	...	11	...	...	...	...	22·1	...	...	...
Hughli ...	Hughli and Chinsurah	...	10	1	...	...	...	20·6	8·4	...	...
Serampore ...	Serampore ...	...	18	4	...	...	...	37·1	221·7	...	...
	Utterpara	...	3	...	...	...	...	29·3	...	...	...
Howrah ...	Howrah	...	15	4	...	...	...	11·4	10·1	...	...
	Bali	...	2	2	...	...	...	7·8	79·3	...	...
Nuddea ...	Krishnagar ...	...	5	1	...	...	...	14·0	6·3	...	...
	Ranaghat	...	1	1	...	...	...	7·1	38·1	...	...
	Santipore	...	6	3	...	...	...	15·1	17·4	...	...
Jessore ...	Jessore	...	3	3	...	...	...	34·6	40·8	...	...
Rajshahye ...	Rampore Beauleah	...	3	4	...	...	...	15·7	21·2	...	...
Darjiling ...	Darjiling	...	8	...	...	...	...	90·6	...	...	...
Dacca	Dacca	...	11	9	...	...	...	14·2	11·9	...	...
	Narainganj ...	...	4	...	...	...	...	32·9	...	...	...
Chittagong ...	Chittagong ...	1	2	5	...	...	65·3	17·9	17·0	...	...
Tipperah ...	Comillah	...	1	4	...	...	...	8·7	28·1	...	...
Patna	Patna City ...	...	55	28	...	...	...	24·0	35·6	...	...
Gya ...	Gya	...	68	17	...	...	...	38·9	55·0	...	...
Shahabad ...	Arrah	...	18	7	...	...	...	30·2	20·3	...	...
Mozufferpore ...	Mozufferpore ...	...	13	4	...	...	...	22·5	16·7	...	...
Durbhanga ...	Durbhanga ...	...	27	23	...	...	...	29·0	68·1	...	...
Sarun	Chupra	...	63	19	...	...	...	52·6	82·9	...	...
Bhagulpore ...	Bhagulpore ...	...	20	6	...	...	...	26·2	18·1	...	...
Monghyr ...	Monghyr	...	23	7	...	...	...	26·7	29·0	...	...
Purneah ...	Purneah	...	1	2	...	...	...	5·7	18·4	...	...
Poori ...	Poori	...	23	..	...	...	...	48·8	...	...	...
	TOTAL ...	1	420	159	...	...	7·5	28·8	28·1	...	...

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO— Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	1	...	...	1	2	1	1	3	2
Midnapore ...	Midnapore ...	4	...	...	...	...	2	1	1	1	2
Hughli ...	Hughli and Chinsurah	2	2	2	1	..	2	...	1	...	1
Serampore ...	Serampore ...	4	...	1	2	3	5	4	1	1	1
	Utterpara	...	...	...	...	...	...	1	...	.	2
Howrah ...	Howrah	3	5	1	...	1	...	3	2	1	3
	Bali	1	2	...	...	...	...	...	..	...	1
Nuddea ...	Krishnagar ...	2	1	...	...	...	...	..	...	2	1
	Ranaghat	...	...	...	1	...	...	1	...	..	...
	Santipore	2	..	1	...	2	..	1	...	1	2
Jessore ...	Jessore	...	3	...	...	...	1	...	.	2	...
Rajshahye ...	Rampore Beauleah	1	2	2	...	...	1	...	...	...	1
Darjiling ...	Darjiling	...	4	1	...	...	2	...	1	...	...
Dacca	Dacca	4	3	1	...	1	3	2	3	3	...
	Narainganj ...	1	...	1	...	...	1	1	.	...	...
Chittagong ...	Chittagong ...	1	..	1	...	..	1	...	2	1	2
Tipperah ...	Comillah	3	...	.	1	...	...	...	..	1	...
Patna	Patna City ...	12	11	9	4	4	6	12	6	3	16
Gya ...	Gya	18	17	5	3	3	9	5	5	11	9
Shahabad ...	Arrah	6	6	1	4	...	2	2	1	1	2
Mozufferpore ...	Mozufferpore ...	3	2	2	...	...	3	2	1	2	2
Durbhanga ...	Durbhanga ...	3	13	9	2	...	4	4	6	4	5
Sarun	Chupra	5	12	3	3	3	15	6	9	5	18
Bhagulpore ...	Bhagulpore ...	7	3	4	...	1	3	4	1	1	2
Monghyr ...	Monghyr	10	9	2	...	2	2	2	...	..	4
Purneah ...	Purneah	...	1	..	.	1	...	...	1	..	...
Poori ...	Poori	2	6	.	...	...	2	1	5	2	5
	TOTAL ...	94	102	46	21	22	66	53	47	48	81

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO— Age. Ratio per 1,000 of population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	23·0	...	...	16·6	13·1	7·5	11·8	63·5	70·2
Midnapore ...	Midnapore ...	279·9	...	...	...	...	14·2	9·4	14·0	25·2	56·8
Hughli ...	Hughli and Chinsurah	129·5	46·9	36·0	21·0	...	16·8	...	12·5	...	25·1
Serampore ...	Serampore ...	293·0	...	20·7	46·8	71·5	48·3	41·8	15·4	27·2	37·4
	Utterpara	...	...	...	...	...	...	49·0	...	...	400·0
Howrah ...	Howrah	75·6	46·9	8·3	...	7·1	...	8·1	8·8	9·5	41·6
	Bali	143·6	104·1	...	...	...	...	...	...	...	71·0
Nuddea ...	Krishnagar ...	209·7	21·1	...	...	..	...	...	...	49·4	30·1
	Ranaghat	...	...	...	59·9	...	...	41·7	...	...	...
	Santipore	123·1	...	13·8	...	46·7	...	12·0	...	22·6	53·[illegible]
Jessore ...	Jessore	...	315·8	...	..	...	25·8	..	...	194·7	
Rajshahye ...	Rampore Beauleah	128·1	73·3	50·0	...	...	12·5		...	...	54·0
Darjiling ...	Darjiling	...	325·5	85·9	...	...	52·0	...	75·1	...	..
Dacca	Dacca	109·6	21·2	5·2	...	7·1	10·2	8·9	18·6	32·9	...
	Narainganj ...	186·4	...	31·4	...	...	19·5	24·3	...	...	...
Chittagong ...	Chittagong ...	92·4	...	20·8	...	...	11·2	...	46·1	47·9	130·7
Tipperah ...	Comillah	525·3	.	...	35·6	...	...	..	...	64·9	...
Patna	Patna City ...	144·8	39·2	27·8	14·4	19·6	10·8	26·8	16·6	11·0	60·2
Gya ...	Gya	522·9	139·1	37·2	23·2	29·8	31·8	27·4	26·6	87·0	90·9
Shahabad ...	Arrah	242·2	70·4	16·1	47·1	...	13·2	16·2	11·1	16·8	36·1
Mozufferpore ...	Mozufferpore ...	163·4	25·7	23·1	..	...	18·2	14·9	10·4	32·9	42·7
Durbhanga ...	Durbhanga ...	100·2	88·8	59·8	19·7	...	15·6	18·6	41·9	47·4	81·4
Sarun	Chupra	184·3	129·9	26·2	31·1	44·9	84·7	40·1	77·0	100·6	275·1
Bhagulpore ...	Bhagulpore ...	304·9	29·8	35·4	...	12·4	14·3	22·4	9·3	12·2	29·9
Monghyr ...	Monghyr	350·2	66·8	14·7	...	27·5	10·1	11·7	...	...	58·0
Purneah ...	Purneah	..	43·0	...	...	52·3	...	.	25·0	...	...
Poori ...	Poori	343·2	175·6	...		...	13·7	12·8	78·2	46·6	144·0
	TOTAL ...	192·6	57·1	21·7	11·3	14·1	16·3	15·7	19·5	32·2	64·1

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of June 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. / MACHGONG ,, 4 ,,

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
7	1. Grain ...	.....	79	79	2,145	79	2,145	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
3	3. Oilseeds ...	.....	18	18	1,920	18	1,920	
1	4. Salt ...	.....	14	14	1,540	14	1,540	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
13	7. Building materials	.....	211	211	204	211	204	
1	8. Miscellaneous ...	.....	4	4	125	4	125	
1	9. Fuel ...	.....	8	8	20	8	20	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
7 rafts	11. Bamboos ...	.....	6,900 No.	6,900 No.	262	6,900 No.	262	
26 & 7 rafts.	12. Total ...	....	334 & 6,900 No.	334 & 6,900 No.	6,216	334 & 6,900 No.	6,216	
12 & 1 raft.	13. Total of same month last year.	7	108 & 4 No.	115 & 4 No.	1,860	108 & 4 No.	860	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	4	26	26
15. Total number of boats plying passenger No.	15	...	15
15½. Do. empty boats ,,	24	23	47
16. Total registered tonnage, cargo, private Tons	.....	334	334
16½. Do. Govt. ,,	.....	.....	.....
17. Total registered tonnage, passenger Tons	627	.....	627
17½. Do. empty ,,	331	563	894
18. Ton-mileage ...	3,867	7,746	11,613
19. Estimated value of cargo Rs.	.....	5,954	5,954
20. Number of passengers ...	5,204	.....	5,204
21. Rafts, bamboos No.	.....	6,900	6,900
22. Do., bullahs ,,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	262	262
24. Tollage on boats ,,	108-10-0	128-6-0	237-0-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	4-5-0	4-5-0
26½. Demurrage from boats ,,	8-4-0	.....	8-4-0
27. Total tollage on boats per ton-mile Rs.	.....	... ..	0-0-3·92
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month— 24 + 25 + 26 + 26½ ...	249 9 0
Total tollage of same month last year ...	45 3 4

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ..	.....
2. Tollage per month ...	249 9 0
3. Total ...	249 9 0
4. Amount credited in the accounts of the month ...	171 8 0
5. Balance due at the end of the month ...	78 1 0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
145	1. Grain ...	474	1,422	1 896	1,13,540	1,896	1,13,540	
...	2. Cotton ...	.....	.....	.. ...	..	.....	.....	
15	3. Oilseeds ...	.....	406	406	52,540	406	52,540	
13	4. Salt ...	32	13	45	4,200	45	4,200	
...	5. Piece-goods ...	.....	.....	.....	...	.....	...	
1	6. Metal ...	40	.....	40	11,000	40	11,000	
32	7. Building materials	11	413	424	6 620	248	6,270	
95	8. Miscellaneous ...	504	251	755	93,550	755	93,550	
9	9. Fuel ...	37	6	43	120	43	120	
2 rafts.	10. Timber ...	.....	1,842 c. ft.	1,842 c. ft.	470	1,842 c. ft.	470	
4 „	11. Bamboos ...	.....	1,825 „	1,825 „	240	1,825 „	240	
310 & 5 rafts.	12. Total ...	1,098	2,511 & 3,667 c. ft.	3,609 & 3,667 c. ft.	2,82,280	3,433 & 3,667 c. ft.	2,81,930	
150 & 5 rafts.	13. Total of same month last year.	527 & 110 No.	1,095 & 21,761 No.	1,622 & 21,871 No.	1,96,900	1,622 & 21,871 No.	1,96,900	

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	132	178	310
5. Total number of boats plying passenger No.	47	62	109
5½. Ditto empty boats „	177	115	292
6. Total registered tonnage, cargo, private Tons	2,251	3,874	6,125
6½. Ditto Government ditto „	.....	303	303
7. Total registered tonnage, passenger Tons	1,632	2,079	3,711
7½. Ditto empty boats „	1,857	759	2,596
8. Ton-mileage ...	2,45,319	2,60,549	5,05,868
9. Estimated value of cargo Rs.	91,470	1,90,100	2,81,570
10. Number of passengers ...	2,567	6,756	9,323
11. Rafts, bamboos C. ft.	.....	1,825	1,825
12. Do., timbers „	.....	1,842	1,842
13. Estimated value of rafts Rs.	.....	710	710
14. Tollage on boats „	2,173-12-6	3,028-5-9	5,202-2-3
15. Compounded tollage on boats Rs.	.....	.....	.....
16. Tollage on rafts „	.....	10-12-6	10-12-6
17. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2
18. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-4-8

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	5,212 14 9
Total tollage of same month last year ...	2,858 15 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	69 3 0
2. Tollage per month ...	5,212 14 9
3. Total ...	5,282 1 9
4. Amount credited in the accounts of the month ...	1,742 4 10
5. Balance due at the end of the mouth ...	3,539 12 11

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
42	1. Grain ...	190	.....	190	12,070	190	12,070	
4	2. Cotton ...	.....	12	12	3,300	12	3,300	
6	3. Oilseeds ...	26	.....	26	1,710	26	1,710	
16	4. Salt ...	.....	35	35	2,970	35	2,970	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
20	7. Building materials	45	241	286	520	45	320	
14	8. Miscellaneous ...	60	32	92	5,780	92	5,780	
1	9. Fuel ...	7	.....	7	20	7	20	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
103	12. Total ...	328	320	648	26,370	407	26,170	
68	13. Total of same month last year ...	197	.....	280	17,020	280	17,020	

	Up.	Down	Total.
14. Total number of boats plying cargo No.	66	37	103
15. Total number of boats plying passenger No.	10	54	64
15½. Do. empty boats „	33	55	88
16. Total registered tonnage, cargo, private Tons	637	203	840
16½. Govt. ditto „	.....	524	524
17. Total registered tonnage, passenger Tons	172	437	609
17½. Do. empty. boats „	298	315	613
18. Ton-mileage ...	23,094	29,470	52,564
19. Estimated value of cargo Rs.	16,850	9,520	26,370
20. Number of passengers ...	193	2,192	2,385
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs „	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats „	229-0-3	334-14-0	563-14-3
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P
Total tollage of month—24 + 25 + 26 ...	563	14	3
Total tollage of same month last year	169	4	9

Memorandum of Tollage.

	Rs.	A.	P
1. Balance not recovered on the 1st of the month	.....		
2. Tollage per month ...	563	14	3
3. Total ...	563	14	3
4. Amount credited in the accounts of the month	268	3	0
5. Balance due at the end of the month ...	295	11	3

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of Boats or Rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
7	1. Grain ...	8½	7	15½	610	15½	610	
1	2. Cotton ...	.....	1	1	50	1	50	
	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
2	4. Salt ...	6½	.....	6½	728	6½	728	
1	5. Piece-goods ...	.....	1	1	280	1	280	
	6. Metal ...	.....	.....	.....	.....	.....	.....	
1	7. Building materials	3½	.....	3½	35	3½	35	
11	8. Miscellaneous ...	.....	28½	28½	2,368	28½	2,368	
	9. Fuel ...	.....	.....	.....	.....	.....	.....	
fts	10. Timber (81 No.)	.....	486 c. ft.	486 c. ft.	243	486 c. ft.	243	
ft	11. Bamboos ...	.....	50 No.	50 No.	1	50 No.	1	
o. ts	12. Total ...	18½	37½ 486 c. ft. 50 No.	56 486 c. ft. 50 No.	4,315	56 486 c. ft. 50 No.	4,315	
o. ts	13. Total of same month last year.	54 66 No.	28 4,489 No.	82 4,555 No.	5,940	82 4,555 No.	5,940	

	Up.	Down.	Total.
Total number of boats plying cargo ... No.	6	17	23
Total number of boats plying passenger No.	8	46	54
Ditto empty boats „	25	7	32
Total registered tonnage, cargo and boats Tons	37	75	112
Ditto Govt. ditto „	.....	.....	.....
Total registered tonnage, passenger Tons	113	422	535
Ditto empty ditto „	68	34	102
Ton-mileage	2,814	6,330	9,144
Estimated value of cargo Rs.	1,093	2,978	4,071
Number of passengers ...	105	2,031	2,136
Rafts, bamboos No.	.....	50	50
Do., bullahs C. ft.	.....	486	486
Estimated value of rafts Rs.	.....	244	244
Tollage on boats „	31-6-0	110-9-9	141-15-9
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts „	.....	3-13-3	3-13-3
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·99
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-12-4

	Rs. A. P.
Total tollage of month— 24 + 25 + 26 ...	145 13 0
Total tollage of same month last year ...	56 0 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	.....
2. Tollage per month ...	145 13 0
3. Total ...	145 13 0
4. Amount credited in the accounts of the month ...	129 11 9
5. Balance due at the end of the month ...	16 1 3

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.
1	1. Grain ...	2½	.....	2½	140	2½	140
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
3	4. Salt ...	10½	2½	13	1,484	13	1,484
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
...	7. Building materials	.....	.....	.....	.....	.....	.....
2	8. Miscellaneous ...	.....	5½	5½	1,440	5½	1,440
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
2 rafts	10. Timber (20 No.)	.....	120 c. ft.	120 c. ft.	22	120 c. ft.	22
	11. Bamboos ...	.....	.....	.....	.....	.....	.....
6 & 2 rafts.	12. Total ...	13	8 120 c. ft.	21 120 c. ft.	3,086	21 120 c. ft.	3,086
24 & 4 rafts.	13. Total of same month last year.	67 & 240 No.	20 & 10 No.	87 252 No.	6,607	79 12 No.	6,534

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	3	3	6
15. Total number of boats plying passenger No.	7	36	43
15½. Ditto empty ditto „	16	7	23
16. Total registered tonnage, cargo and boat Tons	26	16	42
16½. Ditto Govt. ditto „	.....	.....	.....
17. Total registered tonnage, passenger Tons	97	342	439
17½. Ditto empty ditto „	77	37	114
18. Ton-mileage ...	3,584	7,062	10,646
19. Estimated value of cargo Rs.	1,352	1,712	3,064
20. Number of passengers ...	107	1,620	1,727
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs „	.....	120	120
23. Estimated value of rafts Rs.	.....	22	22
24. Tollage on boats „	26-0-6	64-0-0	90-0-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	0-7-0	0-7-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·62
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-10

	Rs. A.
Total tollage of month—24 + 25 + 26 ...	90 7
Total tollage of same month last year	38 6

Memorandum of Tollage.

	Rs. A.
1. Balance not recovered on the 1st of the month ...	(—)0 10
2. Tollage per month ...	90 7
3. Total ...	89 13
4. Amount credited in the accounts of the month ...	90 7
5. Balance due at the end of the month ...	(—)0 10

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
20	1. Grain ...	...	19	19	815	19	815	
1	2. Cotton ...	.....	1	1	420	1	420	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
4	4. Salt ...	14½	.....	14½	1,620	14½	1,620	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
...	7. Building materials	.....	.....	.....	.....	.....	.....	
5	8. Miscellaneous ...	.....	10	10	809	10	809	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
30	12. Total ...	14½	30	44½	3,664	44½	3,664	
4	13. Total of same month last year.	6	2	8	383	8	383	

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	4	26	30
5. Total number of boats plying passenger No.	.....	2	2
5½. Ditto empty ditto „	27	4	31
6. Total registered tonnage, cargo and boat Tons	29	60	89
6½. Ditto Govt. ditto „	.....	.....	.....
7. Total registered tonnage, passenger Tons	.....	39	39
7½. Ditto empty ditto „	51	16	67
8. Ton-mileage ...	480	674	1,154
9. Estimated value of cargo Rs.	1,620	2,044	3,664
0. Number of passengers ...	.....	137	137
1. Rafts, bamboos C. ft.	.....	.....	.....
2. Do., bullahs „	.....	.....	.....
3. Estimated value of rafts Rs.	.....	.....	.....
4. Tollage on boats „	4-12-6	9-7-6	14-4-0
5. Compounded tollage on boats Rs.	.....	.....	.....
6. Tollage on rafts „	.....	.....	.....
7. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·22
8. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	14	4	0
Total tollage of same month last year ..	1	8	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ..	...		
2. Tollage per month ...	14	4	0
3. Total ...	14	4	0
4. Amount credited in the accounts of the month ...	14	4	0
5. Balance due at the end of the month ...	.....		

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
679	1. Grain ...	3,943	598	4,541	2,84,960	4,541	2,84,900	No. 1, or Narainghur distributary was closed
2	2. Cotton ...	11	26	37	70,556	37	70,556	
14	3. Oilseeds ...	111	67	178	19,608	178	19,608	
160	4. Salt ...	.....	1,457	1,457	1,47,931	1,457	1,47,931	
6	5. Piece-goods ...	8	13	21	64,340	21	64,340	
50	6. Metal	178	224	402	3,17,594	402	3,17,594	
103	7. Building materials	1,194	28	1,222	6,532	1,222	6,532	
335	8. Miscellaneous ...	828	1,199	2,027	5,31,422	2,027	5,31,422	
48	9. Fuel ...	164	310	474	6,736	474	6,736	
14 rafts	10. Timber ...	2,466 c. ft.	120 c. ft.	2,586 c. ft.	1,658	2,586 c. ft.	1,658	
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
1,397 & 14 rafts.	12. Total ...	6,437 & 2,466 c. ft.	3,922 & 120 c. ft.	10,359 & 2,586 c. ft.	14,51,277	10,359 & 2,586 c. ft.	14,51,277	
2,083 & 17 rafts.	13. Total of same month last year.	9,493 & 4,081 c. ft.	5,016 & 120 c. ft.	14,509 & 4,201 c. ft.	15,61,441	14,509 & 4,201 c. ft.	15,61,441	

		Up.	Down.	Total.
14. Total number of boats plying cargo	No.	905	492	1,397
15. Total number of boats plying passenger	No.	497	665	1,162
15½. Ditto empty	„	421	671	1,092
16. Total registered tonnage, cargo	Tons	15,504	8,785	24,289
17. Total registered tonnage, passenger	Tons	3,472	3,482	6,954
17½. Ditto empty	„	2,596	3,515	6,111
18. Ton-mileage	..	421,147	278,878	700,025
19. Estimated value of cargo	Rs.	7,65,771	6,83,848	14,49,619
20. Number of passengers	...	6,693	9,502	16,195
21. Rafts, bamboos	C. ft.	.....	.....	.....
22. Do., bullahs	„	2,466	120	2,586
23. Estimated value of rafts	Rs.	1,514	144	1,658
24. Tollage on boats	„	6,751-11-0	4,122-4-3	10,873-15-3
25. Compounded tollage on boats	Rs.	.....	.....	.....
26. Tollage on rafts	„	50-7-9	1-0-3	51-8-0
27. Total tollage on boats per ton-mile	Pie	.....	.....	0-0-2·9
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	2-0-0

	Rs.	A.
Total tollage of month—24+25+26 ...	10,925	7
Total tollage of same month last year ...	15,396	8

Memorandum of Tollage.

	Rs.	A.
1. Balance not recovered on the 1st of the month	7,216	5
2. Tollage per month ...	10,925	7
3. Total ...	18,141	12
4. Amount paid into treasury during the month ...	10,925	1
5. Balance due at the end of the month ...	7,216	

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
161	1. Grain ...	1,213	.....	1,213	52,881	1,213	52,881	Range No 1 was closed for silt clearance during the month.
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
26	4. Salt ...	.....	182	182	18,172	182	18,172	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
...	7. Building materials	.....	.....	.....	.....	.....	.....	
309	8. Miscellaneous ...	92	143	235	26,441	*235	26,401	
3	9. Fuel ...	.....	36	36	310	36	310	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
499	12. Total ..	1,305	361	1,666	97,804	1,666	97,764	
18 & aft.	13. Total of same month last year.	3,848	1,127 & 60 c. ft.	4,975 & 60 c. ft.	2,77,501	4,975 & 60 c. ft.	2,77,501	

	Up.	Down.	Total.
Total number of boats plying cargo No.	224	275	499
Total number of boats plying passenger No.	20	23	43
Total registered tonnage, cargo Tons	2,668	2,144	4,812
Total registered tonnage, passenger Tons	689	14	703
Ton-mileage	54,688	44,589	99,277
Estimated value of cargo Rs.	55,741	42,063	97,804
Number of passengers ...	1,524	1,255	2,779
Rafts, bamboos C. ft.	.....	.....	.....
Do., bullahs ,,	.....	.....	.....
Estimated value of rafts Rs.	.....	.....	.....
Tollage on boats ,,	957-14-3	782-8-9	1,740-7-0
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts ,,	.....	.....	.....
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,740	7	0
Total tollage of same month last year ..	4,897	15	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	1,194	8	3
2. Tollage per month ...	1,740	7	0
3. Total ...	2,934	15	3
4. Amount paid into treasury during the month ...	1,802	2	0
5. Balance due at the end of the month	1,132	13	3

* Only 4 maunds carried for Government work.

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
35	1. Grain ...	.....	404	404	26,550	404	26,550	
...	2. Cotton ...	.....	.....	.....	.....	... ..	.....	
73	3. Oilseeds ...	.....	1,019	1,019	1,39,660	1,019	1,39,660	
1	4. Salt ...	38	.....	38	3,425	38	3,425	
7	5. Piece-goods ...	65	.....	65	9,200	65	9,200	
...	6. Metal ...	1	.....	1	160	1	160	
2	7. Building materials	12	4	16	1,155	4	1,000	
29	8. Miscellaneous ...	253	43	296	34,062	296	37,062	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	86	86	1,420	86	1,420	
1	11. Bamboos ...	8	.....	8	350	8	350	
			237	237	2,559	237	2,559	
148	12. Total ...	377	1,793	2,170	2,18,541	2,158	2,18,386	
227	13. Total of same month last year ...	725	3,520	3,245	2,57,242	3,205	2,55,842	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	36	112	148
15. Total number of boats plying passenger No.	2	2	4
15½. Ditto empty boats ,,	150	8	158
16. Total registered tonnage, cargo Tons	684	2,525	3,209
17. Total registered tonnage, passenger Tons	44	44	88
17½. Ditto empty boats ,,	952	36	988
18. Ton-mileage ...	92,055	1,86,246	2,78,301
19. Estimated value of cargo Rs.	29,170	1,85,392	2,14,562
20. Number of passengers ...	88	104	192
21. Rafts, bamboos C. ft.	.....	35,480	35,480
22. Do., bullahs ,,	.....	6,435	6,435
23. Estimated value of rafts Rs.	.....	3,979	3,979
24. Tollage on boats ,,	681-4-9	1,864-12-3	2,546-1-0
25. Compounded tollage on boats Rs.	8-5-5	8-5-4	16-10-9
26. Tollage on rafts ,,	.....	133-5-3	133-5-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·7
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-1

	Rs.	A
Total tollage of month—24 + 25 + 26 ...	2,696	1
Total tollage of same month last year ...	3,456	0

Memorandum of Tollage.

	Rs.	A
1. Balance not recovered on the 1st of the month ...	492	9
2. Tollage per month ...	2,696	1
3. Total ...	3,188	10
4. Amount credited in the accounts of the month	2,890	15
5. Balance due at the end of the month ...	297	11

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
37	1. Grain ...	21	514	535	41,058	535	41,058	
...	2. Cotton ...	13	.....	13	16,600	13	16,600	
26	3. Oilseeds ...	.....	369	369	35,901	369	35,901	
33	4. Salt ...	371	.....	371	41,568	371	41,568	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	1	.....	1	300	1	300	
9	7. Building materials	5	52	57	740	27	324	
30	8. Miscellaneous ...	70	140	210	14,984	156	14,939	
2	9. Fuel ...	.....	14	14	200	14	200	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
	11. Bullahs ...	.....	182	182	965	182	965	
...	11. Bamboos ...	.....	173	173	1,784	173	1,784	
	11. Firewood ...	.....	132	132	363	132	363	
137	12. Total ...	481	1,576	2,057	1,54,463	1,973	1,54,002	
129	13. Total of same month last year.	382	1,651	2,036	1,25,287	1,826	1,23,791	

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	50	87	137
5. Total number of boats plying passenger No.	9	5	14
5½. Total number of empty boats No.	109	2	111
6. Total registered tonnage, cargo Tons	900	1,735	2,635
7. Total registered tonnage, passenger Tons	134	107	241
7½. Total registered tonnage, empty Tons	424	5	429
8. Ton-mileage ...	67,910	93,915	161,825
9. Estimated value of cargo Rs.	66,098	85,253	1,51,351
10. Number of passengers ...	1,257	1,226	2,483
11. Rafts, bamboos C.ft.	.....	26,070	26,070
12. Do., bullahs „	.....	13,658	13,658
12½. Do., firewood „	.....	9,956	9,956
13. Estimated value of rafts Rs.	.....	3,112	3,112
14. Tollage on boats „	375-3-0	765-8-6	1,140-11-6
15. Compounded tollage on boats Rs.	228-0-0	228-0-0	456-0-0
16. Tollage on rafts „	.....	124-2-3	124-2-3
17. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·89
18. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-11

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,720 13 9
Total tollage of same month last year ...	1,589 2 11

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	90 13 3
2. Tollage per month ...	1,720 13 9
3. Total ...	1,811 11 0
4. Amount credited in the accounts of the month	1,750 3 9
5. Balance due at the end of the month ...	61 7 3

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
32	1. Grain ...	92	502	594	44,539	594	44,539	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
6	3. Oilseeds ...	.....	143	143	14,420	143	14,420	
...	4. Salt ...	.....	.....	.....	.....	.....	.....	
...	5. Piece-goods ...	2	.....	2	3,000	2	3,000	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
6	7. Building materials	9	62	71	550	.....	.....	
6	8. Miscellaneous ...	15	73	88	9,467	88	9,467	
2	9. Fuel ...	.....	21	21	285	21	285	
...	10. Timber ...	.....	188	188	1,511	188	1,511	
...	11. Bamboos ...	.....	169	169	1,419	169	1,419	
52	12. Total ...	118	1,158	1,276	75,191	1,205	74,641	
48	13. Total of same month last year.	169	1,270	1,439	72,645	1,376	72,327	

	Up.	Down.	Total.
1. Total number of boats plying cargo No.	8	44	52
2. Total number of boats plying passenger No.	8	8	16
3. Ditto empty „	26	12	38
4. Total registered tonnage, cargo Tons	148	1,411	1,559
5. Total registered tonnage, passenger Tons	216	216	432
6. Ditto empty ditto „	75	55	130
7. Ton-mileage ...	8,074	21,770	29,844
8. Estimated value of cargo Rs.	11,161	61,100	72,261
9. Number of passengers ...	566	554	1,120
10. Rafts, bamboos C. ft.	.....	25,395	25,395
11. Do., bullahs „	.....	14,116	14,116
12. Estimated value of rafts Rs.	.....	2,930	2,930
13. Tollage on boats „	102-14-9	261-4-6	364-3-3
14. Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0
15. Tollage on rafts „	.....	154-5-0	154-5-0
16. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·7
17. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-6-2·9

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	732	8	3
Total tollage of same month last year ...	684	9	11

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	36	10	3
2. Tollage per month ...	732	8	3
3. Total ...	769	2	6
4. Amount credited in the accounts of the month ...	743	8	6
5. Balance due at the end of the month ...	25	10	0

ABSTRACT FOR THE MONTH OF JUNE 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1890-91.		Traffic, 1889-90.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	249 9 0	1,055 15 2	45 3 4	1,364 7 7	
Kendrapara Canal System	5,212 14 9	12,965 15 2	2,858 15 3	8,952 13 7	
High Level, Range I ...	563 14 3	1,797 3 3	169 4 9	1,189 13 9	
Ditto „ II ...	145 13 0	865 1 0	56 0 9	893 4 6	
Ditto „ III ...	90 7 6	595 6 3	38 6 0	445 13 9	
Jajepore Canal ...	14 4 0	36 11 10	1 8 0	16 4 4	
Total Orissa Circle ...	6,276 14 6	17,316 4 8	3,169 6 1	12,862 9 6	
South-Western Circle.					
Midnapore Canal ...	10,925 7 3	30,322 10 6	15,396 8 9	37,899 7 0	
Hidgellee Tidal Canal ...	1,740 7 0	4,950 12 0	4,897 15 3	15,888 0 6	
Total South-Western Circle	12,665 14 3	35,273 6 6	20,294 8 0	53,787 7 6	
Sone Circle.					
Patna Canal System ...	2,696 1 0	6,722 0 2	3,456 0 8	8,452 2 11	
Arrah ditto ...	1,720 13 9	6,179 14 3	1,589 2 11	5,326 14 2	
Buxar ditto ...	732 8 3	2,900 2 0	684 9 11	2,290 5 11	
Total Sone Circle ...	5,149 7 0	15,802 0 5	5,729 13 6	16,069 7 0	
Grand Total ...	24,092 3 9	68,391 11 7	29,193 11 7	82,719 8 0	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1890-91.						Traffic, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level	429	145	537 5 0	1,736	2,961	1,981 3 5	48	54	48 1 0	948	2,652	1,199 3 4
Total Orissa Circle ...	429	145	537 5 0	1,736	2,961	1,981 3 5	48	54	48 1 0	948	2,652	1,199 3 4

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1890-91.		Earnings, 1889-90.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	6,814 3 6	19,297 8 1	3,217 7 1	14,061 12 10	
Midnapore Canal ...	10,925 7 3	30,322 10 6	15,396 8 9	37,899 7 0	
Hidgellee Tidal Canal ...	1,740 7 0	4,950 12 0	4,897 15 3	15,888 0 6	
Sone Canals ...	5,149 7 0	15,802 0 5	5,729 13 6	16,069 7 0	
Total ...	24,629 8 9	70,372 15 0	29,241 12 7	83,918 11 4	

Calcutta,
The 22nd September 1890.

G. A. G. Shawe,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of July 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
784	1. Grain ...	600·31	12,890	13,490·31	6,11,397	13,490·31	6,11,397	
4	2. Cotton ...	.....	23	23	2,340	23	2,340	
273	3. Oilseeds ...	80	5,627	5,707	6,49,352	5,707	6,49,352	
511	4. Salt ...	4,970	857·33	5,827·33	4,71,225	5,827·33	4,71,225	
4	5. Piece-goods ...	1·44	·37	1·81	4,200	1·81	4,200	
29	6. Metal ..	138·44	34·59	173·03	31,605	173·03	31,605	
57	7. Building materials	156·25	1,082	1,238·25	13,158	1,238·25	13,158	
1,870	8. Miscellaneous ...	8,098	28,379	36,477	39,99,595	36,477	39,99,595	
91	9. Fuel ...	4,104	229·33	4,333·33	40,660	4,333·33	40,660	
Rafts 5	10. Timber ...	140 c. ft.	2,276 c. ft.	2,416 c. ft.	1,028	2,416 c. ft.	1,028	
„ 16	11. Bamboos ...	104 „	8,015 „	8,119 „	634-5	8,119 „	634-5	
3,623 & 21 rafts.	12. Total ...	18,148·44 & 244 c. ft.	49,122·62 & 10,291 c. ft.	67,271·06 & 10,535 c. ft.	58,25,194-5	67,271·06 & 10,535 c. ft	58,25,194-5	
3,718 & 37 rafts.	13. Total of same month last year	15,752 & 579·1 ft.	46,910 & 23,695 c. ft.	62,662 & 24,274 c. ft.	64,08,211	62,662 & 24,274 c. ft.	64,08,211	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,222	2,401	3,623
14*a*. Empty boats and steamers No.	762	156	918
15. Total number of boats plying passenger No.	1,532	1,811	3,343
15*a*. Do. empty boats & steamers „	315	51	366
16. Total registered tonnage, cargo Tons	40,662	96,247	136,909
17. Total registered tonnage, passenger Tons	1,128	1,340	2,468
18. Ton-mileage	.....	.....	.....
19. Estimated value of cargo Rs.	23,20,035	35,03,497	58,23,532
20. Number of passengers No.	1,729	1,473	3,202
21. Rafts, bamboos C. ft.	104	8,015	8,119
22. Do., bullahs „	140	2,276	2,416
23. Estimated value of rafts Rs.	349-8-0	1,312 13-0	1,662-5-0
24. Tollage on boats „	10,921-0-6	20,437-7-6	31,358-8-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	2-13-0	30-3-0	33-0-0
27. Total tollage on boats per ton-mile* ...	.....	.....	.....
28. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-5-0

	Rs. A. P.
Total tollage of month—24+25+26 ...	31,391 8 0
Total tollage of same month last year ...	31,315 6 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	505 8 6
2. Tollage per month ...	31,391 8 0
3. Total ...	31,897 0 6
4. Amount paid into treasury during the month ...	30,339 7 0
5. Balance due at the end of the month ...	1,557 9 6

* Boats in these rivers do not pay per mile.

Abstract for the month of July 1890 *as compared with the corresponding month of the previous year.*

C

	1890-91. During the month.	1890-91. To end of the month.	1889-90. During the month.	1889-90. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	31,391 8 0	54,182 15 6	31,315 6 0	52,091 4 3

CALCUTTA,
The 23rd September 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 20th September 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 20th September 1890.			Week ending Saturday, the 21st September 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	313	65,600	1,094	348	65,500	1,028
Jute	240	89,970	1,663	165	81,925	1,475
Firewood	125	61,900	948	187	88,950	1,345
Other articles	911	2,25,210	3,288	847	1,82,225	2,937
Total ...	1,589	4,42,680	6,993	1,547	4,18,6 0	6,785

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*225,215	*2,20,936 5 0	20,26,251 20	4,47,907 15 0	15,105 10 0	6,83,949 14 0	63,306½	77,443½	140,844½
Or per mile of railway	.....	144 13 3	.....	293 9 10	9 14 5	448 5 6	.....	.....	.....
For previous 10 weeks of half-year	2,168,543	21,78,028 15 0	1,79,80,277 10	39,93,979 8 0	1,82,104 3 10	63,34,712 10 10	634,794½	734,000½	1,368,795
Total for 11 weeks ...	2,393,758	23,99,565 4 0	2,00,06,528 30	44,41,887 7 0	1,77,209 13 10	70,18,662 8 10	698,100½	811,449	1,509,639½
Comparison.									
Total for corresponding week of previous year	244,815½	2,52,335 5 5	21,25,184 0	4,20,236 13 0	17,434 6 0	6,90,036 8 5	66,753	77,592	144,345
Per mile of railway corresponding week of previous year ...	.....	165 6 7	.....	275 7 11	11 6 10	452 5 4	.....	.....	.....
Total to corresponding date of previous year	2,625,411½	25,85,929 8 8	2,33,30,767 10	48,46,857 11 1	1,82,200 11 3	76,14,987 15 0	717,226	896,917	1,614,143

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic to Gya on account of "Aupar Puckuha."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 14th September 1889.			Receipts for week ending 13th September 1890.			Total receipts from 1st April 1889 to 14th September 1889.			Total receipts from 1st April 1890 to 13th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	6,90,037	452	1,525½	6,83,950	448	1,525½	1,96,41,739	536	1,525½	1,81,37,593	495	.....	15,04,146

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*9,816	*4,818 7 0	28,348 10	1,945 12 0	38 0 0	6,802 3 0	1,110	486	1,596
Or per mile of railway	72	84 3 10	495 30	34 0 3	0 10 8	119 14 9	.....	.....	.....
For previous 10 weeks of half-year	93,802	47,503 10 0	3,15,098 10	19,203 11 0	434 6 0	67,141 11 0	9,769	5,875	15,644
Total for 11 weeks ...	103,618	52,322 1 0	3,43,446 20	21,149 7 0	472 6 0	73,943 14 0	10,879	6,361	17,240
Comparison.									
Total for corresponding week of previous year	24,402½	14,618 11 11	20,992 10	1,484 12 0	57 14 0	16,161 5 11	2,233	362	2,595
Per mile of railway corresponding week of previous year ...	427	255 9 2	367 0	25 15 4	1 0 2	282 8 8	.....	.....	.....
Total to corresponding date of previous year	140,891½	76,461 13 3	5,44,529 0	25,446 11 0	468 9 9	1,02,377 2 0	13,575	7,846	21,421

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic to Gya on account of "Aupar Puckshe."

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 14th September 1889.			Receipts for week ending 13th September 1890.			Total receipts from 1st April 1889 to 14th September 1889.			Total receipts from 1st April 1890 to 13th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	16,161	283	57½	6,802	119	57½	2,16,373	158	57½	2,00,688	146	.....	15,685

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,377	4,521 1 0	4,970 10	178 11 0	6 0 0	4,705 12 0	925	43	968
Or per mile of railway	.....	203 3 1	.....	8 0 6	0 4 4	211 7 11	.....	.....	.....
For previous 10 weeks of half-year	169,254	41,427 14 0	45,728 0	2,035 0 0	60 14 0	43,523 12 0	8,924	470	9,394
Total for 11 weeks ...	187,631	45,948 15 0	50,698 10	2,213 11 0	66 14 0	48,229 8 0	9,849	513	10,362
Comparison.									
Total for corresponding week of previous year	18,117	4,046 9 7	5,528 20	159 3 0	6 0 3	4,211 12 10	933	35	968
Per mile of railway corresponding week of previous year ...	.....	181 13 11	.....	7 2 6	0 4 4	189 4 9	.....	.....	.....
Total to corresponding date of previous year	192,662½	45,585 2 4	55,791 20	1,857 15 0	47 6 6	47,518 7 10	10,189	443	10,632

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 14th September 1889.			Receipts for week ending 13th September 1890.			Total receipts from 1st April 1889 to 14th September 1889.			Total receipts from 1st April 1890 to 13th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	4,312	189	22½	4,706	211	22½	1,30,156	244	22½	1,33,077	249	2,921	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 6th September 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	157,160	53,090 0 0	6,17,900 0	1,61,320 0 0	10,150 0 0	2,24,560 0 0	22,600	37,363	59,963
Or per mile of railway	206	70 0 0	810 0	211 0 0	*3 0 0	294 0 0	.....	.....	.....
For previous 9 weeks of half-year	1,255,030	5,03,930 0 0	48,26,530 0	11,54,160 0 0	1,26,390 0 0	17,84,480 0 0	199,174	290,716	489,890
Total for 10 weeks ...	1,412,190	5,57,020 0 0	54,44,430 0	13,15,480 0 0	1,36,540 0 0	20,09,040 0 0	221,774	328,079	549,853
COMPARISON.									
Total for corresponding week of previous year	170,521	62,333 0 0	8,13,773 0	1,99,703 0 0	18,799 0 0	2,80,835 0 0	22,207	35,687	57,954
Per mile of railway corresponding period of previous year ...	228	83 0 0	1,089 0	267 0 0	*13 0 0	363 0 0	.....	.... .	.....
Total to corresponding date of previous year	1,384,295	5,57,669 0 0	58,28,466 0	13,30,067 0 0	1,35,234 0 0	20,31,970 0 0	224,581	289,619	514,200

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 7TH SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,80,835	376	763	2,24,560	294	705	41,67,412	257	758	*43,27,655	248	1,60,243	.....

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	29,770	6,270 0 0	28,590 0	2,320 0 0	160 0 0	8,820 0 0	3,610	2,065	5,675
Or per mile of railway	238	50 0 0	229 0	19 0 0	2 0 0	71 0 0	.....	.....	.....
For previous 9 weeks of half-year	2 3,522	77,590 0 0	3,44,980 0	25,570 0 0	1,830 0 0	1,04,990 0 0	31,470	17,958	49,428
Total for 10 weeks ...	265,293	83,860 0 0	3,73,570 0	27,960 0 0	1,990 0 0	1,13,810 0 0	35,080	20,023	55,103
COMPARISON.									
Total for corresponding week of previous year	31,242	8,340 0 0	73,714 0	7,560 0 0	141 0 0	16,041 0 0	3,499	2,277	5,776
Per mile of railway corresponding period of previous year ...	250	67 0 0	590 0	60 0 0	1 0 0	128 0 0	.....	.....	.....
Total to corresponding date of previous year	275,897	86,922 0 0	5,31,113 0	45,523 0 0	1,731 0 0	1,34,176 0 0	34,068	23,180	57,848

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 7TH SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 6TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 7TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 6TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
123	16,041	128	125	8,630	71	125	3,14,622	109	125	*2,79,880	97	.....	34,203

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,290	4,420 0 0	15,170 0	1,230 0 0	160 0 0	5,810 0 0	2,414	690	3,104
Or per mile of railway	166	51 0 0	176 0	14 0 0	2 0 0	67 0 0	.....	.....	.....
For previous 9 weeks of half-year	128,600	41,420 0 0	1,12,640 0	10,350 0 0	1,090 0 0	53,060 0 0	21,070	6,012	27,082
Total for 10 weeks ...	142,890	45,840 0 0	1,27,810 0	11,780 0 0	1,250 0 0	58,870 0 0	23,484	6,702	30,186
Comparison.									
Total for corresponding week of previous year	16,408	5,044 0 0	28,989 0	2,138 0 0	255 0 0	7,437 0 0	2,534	1,551	4,085
Per mile of railway corresponding period of previous year	191	58 0 0	337 0	25 0 0	3 0 0	86 0 0	.....	.....	.....
Total to corresponding date of previous year	146,840	44,114 0 0	1,54,179 0	10,359 0 0	2,243 0 0	56,716 0 0	24,720	8,258	32,978

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 7th September 1889.			Receipts for week ending 6th September 1890.			Total receipts from 1st April 1889 to 7th September 1889.			Total receipts from 1st April 1890 to 6th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,437	86	86	5,810	67	86	1,30,095	66	86	*1,40,612	71	9,617	.....

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 6th September 1890, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,320	790 0 0	2,080 0	100 0 0	10 0 0	900 0 0	580	170	750
Or per mile of railway	85	29 0 0	76 0	4 0 0	.....	33 0 0	.....	.....	.....
For previous 9 weeks of half-year	28,500	10,140 0 0	82,270 0	4,380 0 0	110 0 0	14,630 0 0	4,938	2,653	7,591
Total for 10 weeks ...	30,820	10,930 0 0	84,350 0	4,480 0 0	120 0 0	15,530 0 0	5,518	2,823	8,341
Comparison.									
Total for corresponding week of previous year	3,176	1,027 0 0	13,998 0	837 0 0	30 0 0	1,894 0 0	586	504	1,09
Per mile of railway corresponding period of previous year ...	117	38 0 0	514 0	30 0 0	1 0 0	69 0 0	.....	.....	.....
Total to corresponding date of previous year	29,851	10,941 0 0	96,094 0	6,277 0 0	538 0 0	17,756 0 0	5,710	3,608	9,318

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 7th September 1889.			Receipts for week ending 6th September 1890.			Total receipts from 1st April 1889 to 7th September 1889.			Total receipts from 1st April 1890 to 6th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,894	69	27½	900	33	27½	43,335	69	27½	*41,538	66	.....	1,797

* Audited up to week ending 21st June 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 6th September 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	76,037	27,069	2,80,009	32,180	6,539	66,688	11,745	11,145	22,890
Or per mile of railway	111·34	40·48	4·06·09	46·57	9·46	96·51	.....	.....	.....
For previous 8 weeks of half-year	630,051	2,45,640	21,72,871	2,49,710	55,928	5,51,278	103,563	100,810	204,373
Total for 9 weeks ...	(*a*) 706,988	2,73,609	(*b*) 24,53,480	2,81,890	*62,467	6,17,966	115,308	111,955	227,263
COMPARISON.									
Total for corresponding week of previous year	61,298	21,916	2,33,818	23,588	12,509	58,013	11,037	11,254	22,212
Per mile of corresponding week of previous year, 649 miles open	97 53	33·77	360·27	36·35	19·27	89·39	.....	.....	.....
Total to corresponding date of previous year	758,145	2,60,695	31,34,232	3,59,949	84,742	7,05,386	103,472	140,729	244,201

* Steam-boat earnings for the week, Rs. 5,210.
Ditto to date, „ 46,340.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western Railway.

Receipts for week ending 6th September 1890.			Receipts for week ending 7th September 1889.			Total receipts from 1st April 1890 to 6th September 1890.			Total receipts from 1st April 1889 to 7th September 1889.			Total increase in 1890-91	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	66,688	96·51	649	58,013	89·39	666·96	19,41,646	128·17	640	20,21,039	136·24	.....	9,393

(*a*) Excludes 27,546 passengers, being traffic common to B. and N.-W. and T. S. Railways.
(*b*) Do. 1,26,118 maunds, ditto ditto ditto.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.	A.	P.
Approximate earnings for week ending 23rd August 1890	7,521		
Corresponding period of 1889	13,857		
Decrease	6,336		
Receipts per mile for week ending 23rd August 1890	147	7	6
Corresponding period of 1889	271	11	3
Decrease	124	3	9
Receipts from 1st July to 23rd August 1890	58,360		
Corresponding period of 1889	72,288		
Decrease	13,928		

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RESOLUTION ON THE ADMINISTRATION REPORT OF THE RAJSHAHYE DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Calcutta, the 30th September, 1890.

RESOLUTION.

READ—

The Administration Report of the Rajshahye Division for the year 1889-90.

Tours.

The Commissioner (Mr. Lowis), all the Collectors in the Division, and the Sub-divisional Officers with a single exception, made very complete tours. Among the subjects which engaged their attention are mentioned enquiries into excise matters, chowkidari work, the condition of roads and villages, the state of crops, public health and feeling, the disposal of bad livelihood cases, inspections of police-stations, dispensaries, sub-divisional offices, subsidiary jails, schools, offices of Managers under the Court of Wards, and the collections of ferry and pound rents.

Circumstances affecting the material condition of the people.

2. The rainfall was generally sufficient, and the outturn of the different crops not much below the average. Prices were nevertheless high, owing to a deficiency in the harvest of the previous year. Public health was better than in 1888, and the agriculturists, who comprise the bulk of the population, are said to have been comparatively well off. On the other hand, the high prices of food affected injuriously those who live on fixed incomes, among whom are specially mentioned those engaged on clerical work in its different forms. There was a tendency to a rise in wages: the rates increased in regard to masons, blacksmiths and carpenters in Rajshahye and unskilled labour in Julpigoree, but against this must be set off an unexplained decline in the district of Bogra.

Manufactures and trade.

3. As observed by the Commissioner, the most important manufactures of this Division in indigo, silk, tea, cinchona, and gunny cloth are carried on by Europeans. The first of these industries, which once flourished in Rajshahye and Pubna, has greatly declined

in recent years. The outturn of silk in the Rajshahye district has increased while the business has almost been abandoned in Bogra. The yield of tea was 23,471,100lbs. against 20,649,957lbs. in the previous year. The Commissioner remarks that a great impetus to the trade of the Rajshahye district has been given by the introduction of the daily steamer service between Rampore Beauleah and Damukdea, and the bi-weekly service between Maldah and Beauleah. The trade with Bhootan increased during the year, the imports being valued at Rs. 1,53,690 against Rs. 1,08,070 in 1888 ; the exports Rs. 1,39,933 against Rs. 1,20,927. The imports from Thibet are not precisely stated, but the export trade was as follows:—

		1888.	1889.
Cotton piece-goods (European) ...	Rs.	12,281	18,486
Rice	Mds.	150	...
Copper	„	103	31
Iron	„	122	95
Tobacco	„	700	254
Wool	Rs.	650	4,821

Crime and police.

4. The Commissioner's report does not indicate the character of the year in regard to crime, or convey any expression of his opinion as to the general conduct of the police. It would, however, appear from a comparison of the figures submitted with these returns last year that there was a diminution in the total number of cognizable and non-cognizable offences. Progress was made in the work of raising the pay of chowkidars and assuring its more regular discharge. The Commissioner expresses himself as preferring benches of Honorary Magistrates sitting alone to those over which a Stipendiary Magistrate presides, on the ground that the members take more interest in their work when allowed to act independently, and that relief is thus afforded to the officers of Government. He has, moreover, to some extent given effect to the policy he recommends. These considerations are of weight where Honorary Magistrates are found qualified by knowledge of the law to act alone; but care should be taken to avoid the establishment of benches which cannot be expected to dispose satisfactorily of the criminal work allotted to them. The subject has been under the consideration of the Lieutenant-Governor during the past year, and the Commissioner should embody any proposals he may desire to make in the form of an amendment to the rules for the appointment and guidance of Honorary Magistrates that have been recently promulgated.

Affairs connected with land.

5. Mr. Lowis considers that the conduct of the zemindars in his Division was satisfactory on the whole, and mentions several who have been distinguished for exceptionally good management. On the other hand, certain land-owners in the Pubna district are indicated as well-known disturbers of the public peace, with results which have sometimes proved ruinous to themselves. The number of rent suits in Rungpore has increased from 6,481 to 8,086, and the explanation offered, that the agricultural classes are becoming more able and willing to assert their rights under the Bengal Tenancy Act, is not very satisfactory, as this cause, if the true one, must have operated also in Pubna and Bogra districts, where there has been a falling off under this head. Mr. Lowis considers that the Act worked successfully during the year. Its special provisions were but little used. Of the land revenue 98 per cent. was collected, a result somewhat better than that obtained during the previous year.

Education.

6. There was a nominal decrease of one school during the year, and an increase in the number of pupils from 92,990 to 94,578. In the Rajshahye Division the work of educating the masses makes very slow progress. There was an actual falling off in the attendance at lower primary schools, a decrease which was most marked in the case of Rungpore, in which there were 12,589 such pupils in 1889-90 against 15,517 in 1888-89, and no explanation is offered of the decline.

7. The thanks of the Lieutenant-Governor are given to Mr. Lowis for his administration of the Division during the year. Mr. Marindin, Mr. Paul, C.I.E., and Major Boileau are specially mentioned among Collectors for the excellence of their work, and among subordinate officers Mr. Pargiter, Mr. Bedford, Baboo Gunga Narain Roy, and Baboo Sita Kunta Mukerjee.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE ORISSA DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Calcutta, the 30th September, 1890.

RESOLUTION.

READ—

The General Administration Report of the Orissa Division for the year 1889-90.

Mr. Worsley has submitted a very full and careful report of the administrative history of the year, which in his Division was the reverse of prosperous. The price of food was high, owing to the shortness of the harvest in 1888-89, and the effect of this on the condition of the working class was not counteracted, as it was in some other parts of the country, by unusually steady demand for labour, or by any general rise in wages. The crop was not very bad, the rice yielding 13 annas, pulses 9 annas, wheat 6 annas; but on the other hand it was not good enough to compensate for the deficiency in the two preceding seasons by replenishing the exhausted stocks. The year was also most unhealthy, a result attributable, at least in part, to conditions which are described as follows by the Collector of Balasore:—

General condition of the people.

"The causes are not, I think, far to seek, though they take us back to the autumn of 1888. The October rainfall of that year was an almost total failure throughout the district, and, except in the extreme south, there was practically no rain in November. In their eagerness to save the winter rice, the ryots used for irrigation purposes every available drop of water, with the result that by February there was little left for drinking purposes. In January, February and March, 1889, there was scarcely any rainfall. May, June and July were also much below the average, as was also September. It was no wonder therefore that cholera took root in every part of the district, especially in Basudebpur and Chandbally thanas, which are impregnated with salt, and where drinking-water is always scarce. It should perhaps be noted that these are two of the three thanas that suffered from flood in August and September, 1888. . . . . It is certainly worth remarking that Jellasore suffered less than any other thana. Here the people possess an abundant supply of good water in the Subarnarekha river."

In Pooree the cholera prevailing generally over the whole Division was aggravated by a special cause, the concourse of pilgrims to the temple of Juggurnath. Fever also was very common, and the registered mortality of the year amounted to 131,784 against 76,103 in 1888-89.

2. The question of salt manufacture is being separately considered by Government. The other articles of manufacture mentioned in the report, such as the silver work of Cuttack, the muslins of Goolnagur, and the stone carving of Alsi, are of very minor importance, but they indicate a bent in the Uriya character which, under favourable circumstances, may hereafter lead to important economic results. At present the population is almost entirely agricultural. The sea-borne traffic of Orissa during the year was valued at Rs. 1,21,38,631, made up of Rs. 59,84,345 exports and Rs. 61,54,286 imports. It is somewhat greater than in the preceding year, when the total value was Rs. 1,13,28,886, but considerably below the average of the three years 1885-86 to 1887-88, which was Rs. 1,57,72,237. The decline is partly accounted for by the opening of the Coast Canal, which carried during the year goods valued at Rs. 5,74,531, but is mainly attributable to the bad crop of 1888-89.

Manufacture and commerce.

3. Under the heading of Police the Commissioner quotes observations on the efficacy of the system of providing for the village watch by grants of rent-free land, a subject which will have to be considered with care now that the province has come under resettlement. When properly worked, it is a very cheap system, but it cannot secure any high degree of efficiency. Chapter XIII dealing with this subject will be specially submitted to the consideration of the Committee recently appointed under the presidency of Mr. Beames. The number of criminal cases increased from 11,731 in 1888 to 13,044 in 1889, and in regard to crimes

Police and justice.

against property this is attributed to the prevalence of high prices. There was no appreciable fluctuation in the amount of civil litigation.

Land and land revenue.

4. The revenue collections were not satisfactory, and the Commissioner refers to the standard of 90 per cent. on current demand in a way which may mislead his subordinates as to the expectations of Government. The collections of a whole district are not to be pronounced good because they exceed 90 per cent., although a very special explanation is needed whenever collections fall in any place below that minimum. In Pooree the collections, which amounted to 78·5 per cent. only on the current demand, were very bad, and it is not to be considered as a set-off that they were worse in the preceding year. The collections of the canal rates were most deficient, and the general result is very disappointing. The attention of the Board will be drawn to this point. There were several settlements in progress during the year, important in themselves, and also as preparatory to the general settlement of Orissa, which will be commenced next year. It is satisfactory to observe that only three sales ultimately upheld took place during the year for the realization of Government revenue.

Education.

5. The Lieutenant-Governor observes with regret that there has been a marked decline both in the number of schools and scholars, the former having, as reported, fallen from 8,421 to 8,073, the latter from 125,786 to 115,788, the decrease being principally under the head of primary education. It is attributed, no doubt with truth, to the influence of high prices and to the sickly character of the year; but if a strong movement had been established in the direction of mass education, the effect of such conditions would be merely to retard the rate of progess, not to cause actual retrogression. The special schools of Cuttack, Normal, Medical, and Surveying, are mentioned as doing much practical good.

Conduct of zemindars.

6. The Commissioner observes that—

"Rajah Baikuntha Nath De Bahadur of Balasore and Rajah Badyanath Pundit of Cuttack hold the foremost place among the zemindars of Orissa for liberality and public spirit. Both these gentlemen are good landlords and of enlightened views. Rajah Baikuntha Nath De takes a very active part in the administration of local affairs, and renders much assistance to the district officer in his capacity of an Honorary Magistrate.

"The Rajah of Parikud is conspicuous among the zemindars of the Pooree district, and possesses much influence and authority. He is alive to the advantages of making improvements on his estate.

"Among other zemindars, Babus Koilash Chandra Roy Mohashoy of Dehurda and Gobind Bullabh Roy Mohashoy of Cowpore are favourably noticed by the Collector of Balasore as just landlords and men of public spirit."

7. The thanks of the Lieutenant-Governor are given to Mr. Worsley for the efforts made by him to secure the efficient management of his Division during the year. The three Collectors, Mr. Tute, Mr. Allen, and Mr. Cornish, are noticed by him as having administered their districts satisfactorily, and among Deputy Collectors special note is made of Babu Rash Behari Naik.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUSION ON THE ADMINISTRATION REPORT OF THE DEPARTMENT OF LAND RECORDS AND AGRICULTURE, BENGAL, FOR THE YEAR 1889-90.

REVENUE DEPARTMENT—AGRICULTURE.

Calcutta, the 23rd September, 1890.

RESOLUTION.

READ—

Letter No. 630A, dated the 13th August, 1890, from the Board of Revenue, Lower Provinces, submitting with their remarks the annual report of the Director of the Department of Land Records and Agriculture, Bengal, for the official year 1889-90.

THE Director was chiefly employed during the year on important settlement work, and, in so far as it relates to this Department, and to the supervision he has exercised over improvements on Government and Wards' estates, his valuable report will be reviewed with those submitted by the Board of Revenue as to Land Revenue Administration and the management of estates under the Court of Wards. He, however, found time to prosecute with effect the agricultural enquiries which form the second part of his duties, completing, with the aid of Mr. B. C. Basu and Mr. N. N. Banerjee, the analysis, as it has been called, of the districts of Dacca and Lohardugga, and making interesting investigations as to forest and fuel reserves, tree-planting and other subjects of a kindred nature.

Eradication of *pebrine* and silk experiments.

The work originally undertaken by Government at Berhampore for the eradication of *pebrine* among silk-worms, by the supply of untainted seed, was carried on during the year under the supervision of a committee of merchants interested in the trade, with Sir Alexander Wilson as President. There appears to be no doubt that the action taken has been judicious, and may ultimately result in reducing very largely the loss suffered from the disease; but last year the success obtained was not as great as had been expected. Of 7,295 maunds of seed raised, only 1,358 maunds were sold—a result which indicates no particular eagerness on the part of the villagers to obtain the improved production. Some experiments undertaken in Midnapore on a small scale were more successful. The sum of Rs. 5,000 a year is contributed by Government towards these experiments, and the services of Mr. Mookerjee, Probationery Deputy Collector, who has studied the subject in Europe, have been lent for the purpose. The Lieutenant-Governor hopes that the work will be continued steadily for a series of years, as from its nature no great improvement can be expected to result at once, while perseverence will probably result in success, such as has been obtained by similar methods in other countries.

Experimental farms.

A series of experiments were tried at the Dumraon, Burdwan, and Seebpore farms during the year. In regard to the fodder grasses tried at Burdwan, the Director observes:—

"From the statement given below it will be seen that bone-meal, applied at the rate of one maund per bigha, gave excellent results with *sorghum*, raising the outturn to more than twice that of an unmanured plot:—

Manure applied per bigha.	Outturn per bigha.
	Mds. s.
Bone-meal, per maund	280 36
Unmanured	118 0

This experiment further showed that *sorghum* succeeds as a rainy weather crop where it had been found to fail as a cold weather crop In the absence of any demand for the grass, the whole of the produce was given to the bullocks of the farm, which did well on it, and used it with the greatest avidity."

At Seebpore—

"Experiments made with this crop last year confirmed the opinion expressed in the annual report of the previous year that sorghum can be profitably grown as a fodder crop in Bengal. The produce was sold at 2 annas 6 pies per maund to a Calcutta dairy, the manager of which, Mr. G. C. Bose, a Cirencester scholar, reported very favourably on it. The

yield of milk of a number of cows was increased from 20 to 25 seers by the substitution of sorghum for straw; while the cost of feeding was at the same time reduced. Mr. Bose has been so far encouraged by the results that he proposes to grow sorghum as a fodder for his milch cows. The cultivation of sorghum realized a net profit of Rs. 12-12-3 per bigha."

Agricultural implements.

The Seebpore plough has met with some recognition, though not very generally successful. Mr. J. W. Crowdy, of Durbhunga, writes:—

"I find the Seebpore ploughs very useful, especially in light soils. I have now over 40 in use, and the great advantage I find is that they are so light that any bullock who can draw a common plough can work them with the greatest ease, so I have not to keep a large complement of bullocks, as I should have to do if they were heavy and unwieldy."

The Director adds as to other agricultural implements:—

"*Sugar turbine.*—The centrifugal sugar drier, also called the turbine, was exhibited at the Khulna Exhibition, and an experiment made there in manufacture of *dolo* sugar by this machine proved successful. The turbine is coming into use for making *dolo* or *kutcha* sugar out of cane *rab* in the district of Shahabad, and it is not improbable that it may be introduced for the same purpose in Central Bengal, where the manufacture of sugar from date-palm juice is an important industry.

"*Butter-making machines.*—An interesting series of experiments was made during the year by Mr. Howman, who had been deputed to India by the Dairy Supply Company of London to show the working of the centrifugal cream separator and other dairy machines, with the ultimate view of creating a market for them in India. The experiments were made at the Metcalfe Hall in Calcutta, at the Khulna Exhibition, and at Bankipore. A comparative trial between the English method of butter-making by these machines and the native process resulted in favour of the former; but the trials of the dairy machines were far from being conclusive, and leave it an open question which system, native or European, gives the larger yield of butter. Since Mr. Howman left, Messrs. Basu and Banerjee have made a comparative trial between the European dairy machines and the native churn, and have found that, not only in respect of quantity, but also of quality, the former are preferable. Attempts will be made to bring the dairy machines to notice at mêlas and elsewhere."

The cost of these experiments is about six thousand rupees a year.

Use of bones as manure.

With regard to the facts stated on the subject by the Director, the Lieutenant-Governor observes that it is better to export bone-dust, obtaining for it Rs. 2 or Rs. 2-8 a maund, than to leave the bones on some deserted spot, where they do no good even if they do not constitute a nuisance. But what is really desirable is that the ryots should learn to prepare and use this valuable manure for suitable soils. If its use yields a profit to farms in Europe after paying all the cost of carriage, and also to indigo and tea-planters in the country, the dust must also in some cases at least be worth its cost to the ryots. Sir Steuart Bayley observes with satisfaction the progress made in the direction of utilizing a product now generally allowed to waste, as indicated in the following passage:—

"A beginning has already been made by ryots in the use of bone-meal as manure in the districts of Burdwan and Hooghly. Arrangements have been made at Belcooly, Pearapole, and Khanian in the Hooghly district, and also in the Burdwan and Dumraon farms, and at Jheria in Manbhoom, to have bones collected and to have them fermented and ground into meal, and then to distribute the bone-meal at cost price to the ryots of the neighbourhood. In this way it may be possible to offer bone-meal at prices not exceeding Re. 1 per maund. At the suggestion of Mr. Donald Sunder, Settlement Officer of the Western Dooars, and with the permission of Dr. Lethbridge, Inspector-General of Jails, it has been arranged to utilize the labour of Mahomedans, low-caste Hindus, and aboriginal prisoners at the Julpaiguri and Purulia Jails for the grinding of bones. The bone-meal prepared in the jail will be available for sale at cost price to parties applying for it. Mr. Sunder believes that he will be able to induce the jotedars of Western Dooars to use it largely. He has already purchased 50 maunds of bone-meal from Messrs. Croft, Wells & Co., of Bally, and distributed it among the jotedars of the Western Dooars."

The thanks of the Lieutenant-Governor are given to Mr. Finucane for his efficient management of the Department during the year. Mr. Sen also rendered satisfactory service.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE PROGRESS REPORT OF THE FOREST ADMINISTRATION IN BENGAL FOR 1889-90.

REVENUE DEPARTMENT—FORESTS.

Calcutta, the 23rd September, 1890.

RESOLUTION.

READ—

The Progress Report of the Forest Administration in Bengal for 1889-90

MR. HOME has submitted a very full and complete report of the working of the Department during the year, for the greater part of which he was himself in charge of the office of Conservator of Forests. Mr. Davis officiated for the three months while the Conservator was on leave of absence.

Area.

2. The area of the Reserved forests is now reported to be 5,195 square miles, of Protected forests 2,239 square miles, of Unclassed State forests and Waste lands 4,034 square miles—in all 11,468 square miles, being $5\frac{1}{2}$ per cent. of the total area of province (193,198 square miles). The forests are confined to the districts bordering on the sea, the sub-Himalayan tracts, and the plateau of Central India, so far as it stretches into Chota Nagpore and Orissa. The rich districts of the interior of Bengal are, most unfortunately, altogether without public forests, and are consequently supplied in a very deficient degree with fuel. An area of 207 square miles was added to the Reserves during the year, and an area of 25 square miles of Protected forests in the Sunderbuns was farmed out for reclamation. Much work is being done in completing the title of Government to existing Reserves by going through the legal formalities prescribed by the Act as a necessary preliminary to the constitution of a forest—formalities which were often overlooked in the first instance. The enquiries incidental to these proceedings will also secure the record and protection of private easements, and in some instances may lead to a more judicious alignment of forest boundaries, which should always be fixed with reference, among other considerations, to the convenience of the neighbouring cultivators The Lieutenant-Governor notices with satisfaction that the average cost per mile of deliminating boundaries has been reduced from Rs. 16 to Rs. 7-3.

Legal proceedings.

3. During this year there have not been so many criminal charges against officers of the Department, and in only one case brought to trial has the prosecution proved abortive. Three forest guards on the Kassalong Range in Chittagong were murdered by a gang of Chakmas, who made away with over Rs. 2,000. All the gang, except the ringleader, have been captured, and it is hoped that he also will soon be in the hands of justice. Owing to the large number of cases compounded, only 120 prosecutions were instituted as against 254 in 1888-89, while the percentage of convictions remains practically the same, viz., 79·6 per cent. Considering the remarks recorded on the subject last year by the Government of India, an explanation should have been given of the small proportion of successful proceedings. The number of cases compounded has increased from 1,450 to 2,524. These came chiefly from the Darjeeling and Sunderbuns Divisions, where the delay and other inconveniences which attend an appeal to the courts have led Forest officers to prefer compounding.

Fires.

4. The result of the special measures taken to protect a portion of the forests against fire were successful—95 per cent. of the areas thus dealt with having escaped, in spite of the dryness of the season, against 72·9 per cent. in the previous year. On the other hand, there was a failure in the area not specially protected, but on which some attempt was made at preservation. In illustration of the advantages of protection reference may be made to Mr. Home's statement in regard to Buxa, that the savannahs are in many places fast clothing themselves with tree growths, thanks to consecutive years of exemption from fires. Similar improvement is observed in the savannahs of the Raidak sâl tract, but it is not so marked in those of the Bholka forest. The area of regular plantations was extended by 116 acres, and that of cultural operations by 18 acres. The cost, including maintenance of former areas, is Rs. 6,604, as compared with Rs. 6,837 last year.

Outturn.

5. The outturn of wood, including timber and fuel, during the year was 29,973,004 cubic feet against 27,793,504 cubic feet in the previous year. The demand for charcoal at

Darjeeling almost trebled during the year and there was a large increase in the demand for timber from the Sunderbuns Division. A notable change was introduced in the Darjeeling Division, where, in spite of the extra work entailed, all growing trees are now marked for felling by gazetted officers. The Lieutenant-Governor is not, however, disposed to think that, apart from some very special local reasons, such a change is desirable. Financial considerations alone would prevent the employment of a gazetted officer for the selection of each tree to be cut; the object of members of the controlling staff should be not to do everything themselves, but to train their subordinates to take an intelligent share in the work.

Financial results.

6. The accounts appended to the report, dealing as they do with the smaller areas only, fail to give a clear idea of the profit and loss in each Division, for which purpose the following table may be found of use:—

Financial results in Forest Divisions for the years 1888-89 *and* 1889-90 *as shown in Form No.* 58.

1888-89.

Division.	Receipts.	Expenditure.	Profits.	Loss.	Remarks.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Direction	3,154 5 5	31,501 13 10	.....	28,346 8 5	
Working Plans	...	5,158 7 4	.....	5,158 7 4	
Darjeeling	1,05,274 9 2	96,028 0 9	9,246 8 3	.....	Comprising the Darjeeling, Teesta, and Kurseong sub-divisions.
Julpigoree	27,248 3 10	38,527 7 4	.....	11,279 3 6	Comprising the Julpigoree and Buxa sub-divisions.
Chota Nagpore	16,811 15 2	55,604 8 7	.....	38,792 9 5	Comprising the Palamow, Hazaribagh, and Singbhoom sub divisions.
Sunderbuns	4,36,275 15 7	80,114 0 2	3,56,161 15 5	.....	
Chittagong	74,905 1 6	30,980 6 2	43,924 11 4	.....	
Orissa	13,236 5 10	30,254 0 0	.....	17,017 10 2	Comprising the Angul and Khoorda sub-divisions.
Total for 1888-89 ...	6,76,906 [illegible] 6	36,81,168 12 2	4,09,333 3 0	1,00,594 6 10	Surplus=Rs. 3,08,738-12-2.

1889-90.

	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Direction	5,818 15 10	30,876 0 1	.....	25,057 0 3	
Working Plans	.....	13,135 2 8	.....	13,135 2 8	
Darjeeling	1,19,238 2 4	1,14,472 5 1	4,765 13 3	.....	Comprising the Darjeeling, Teesta, and Kurseong sub-divisions.
Julpigoree	55,931 2 0	46,270 1 11	9,661 0 1	.....	Comprising the Julpigoree and Buxa sub-divisions.
Chota Nagpore	19,304 2 7	46,801 11 5	.....	27,497 8 10	Comprising the Palamow, Hazaribagh, and Singbhoom sub-divisions.
Sunderbuns	4,85,458 2 3	78,663 15 10	4,06,794 2 5	.....	
Chittagong	73,038 2 9	32,509 12 8	40,528 6 1	.....	
Orissa	9,928 13 3	27,535 7 11	.....	17,606 10 8	Comprising the Angul and Khoorda sub-divisions.
Total for 1889-90 ...	7,68,717 9 0	3,90,264 9 7	4,61,749 5 10	83,296 6 5	Surplus=Rs. 3,78,452-15-5.

It will be seen that there is a large and increasing surplus, so that the general result is satisfactory. The profit is very great in the Sunderbuns Division, from which Calcutta is supplied with fuel, as are also the important sugar and other works scattered through Khulna and Jessore. The Lieutenant-Governor has always encouraged the Department to strengthen establishments as much as possible in this Division, and to make free use of steam-launches for inspection, it being generally believed that the revenue here is capable of much greater expansion. It is also desirable to free more officers for making working plans, a duty too generally neglected, and this can only be accomplished by reducing establishments where they do not pay, namely, in Chota Nagpore and Orissa. In the latter province work will probably be considerably reduced when the forest boundaries have been re-aligned by the exclusion of village grazing and fuel grounds, a measure to which the Lieutenant-Governor attaches great importance in the interests of the cultivators.

Mr. Home has devoted great care and attention during the year to the administration of the Department.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE POLICE DEPARTMENT FOR THE YEAR 1889.

RESOLUTION.

POLICE.

Calcutta, the 23rd September 1890.

READ—

The Report on the Administration of the Police Department for the year 1889.

Read also—

The Reports for the years 1887 and 1888, and the orders of Government recorded thereon.

GENERAL.

1. Mr. Veasey's bulky report, which has, as usual, been punctually submitted, is overburthened with more or less unsatisfactory explanations of variations in crime received from the District Superintendents or Magistrates, with the Inspector-General's comments thereon, much of which might well be omitted from future reports, while, on the other hand, the progress made in dealing with each class of crime, and the reasons which lead to failure or success, might with advantage be generalised The work of the police in each district might also be summarised, the sufficiency or insufficiency of organisation and supervision illustrated and commented on, and the report in this way made more interesting to the general public and at the same time more useful both to Government and the District Officers. At present it is long and it is dry, and neither of these qualities enhance its practical value.

2. Excluding Railway Police, the sanctioned force in 1889 was 73 superior officers, 3,418 subordinate officers and 19,365 constables, but at the close of the year the subordinate officers were 74 and the constables 348 under the sanctioned strength. The total expenditure for the year was Rs. 40,81,342, while the expenditure on that portion of the force that was employed on purely police duties was Rs. 26,23,294, or 7·6 pies per head of the population. These figures, as also those of the proportion of police to area, nearly approximate to the figures of previous years.

3. The Town Police have worked with but varying success. In Howrah, Dinajpur, and the Presidency Division generally they are reported to have done well, while in Dacca, Mymensingh, Bhagalpur, and at the head-quarters of four of the important districts of the Patna Division they have failed in many respects. In Patna itself the procedure in cases instituted for breach of municipal bye-laws would appear to be faulty in the extreme, and in Faridpur it is said that the great extension of the boundaries of the municipality has rendered its proper watch and ward an impossibility. The Magistrate of this last district will be asked for a special report on this point. It has for some time been clearly necessary to take measures to lighten the duties and increase the popularity of Municipal Police. A redistribution of batta allowances, which are now given to all fourth grade constables on town duty, and the successful introduction of a new system of working this force (described in paragraph 9 of the Resolution on the Police Report for 1888) in Midnapur and Hughli, have effected some improvement. The further extension of this scheme has now been sanctioned. Street lighting has made but little progress, and until local municipalities are persuaded of the importance of improving the present condition of affairs in this respect, the Town Police must always work at a disadvantage. The paragraph in the Inspector-General's report which deals with this subject will be communicated to the Municipal Department of this Office for such action as may be deemed necessary.

4. In dealing with rural police the Inspector-General has made up his narrative mainly by jottings from the pages of local reports with his own remarks on them. Had Mr. Veasey given his views on the working of Act VI of 1870 generally, illustrating his opinions by reference to the cases described, and so worked up his paragraphs into a consistent account of the working of the chowkidari system, the result would have been more interesting. Many of the facts recorded are clearly of importance and worthy of comment; but

they are introduced without sequence, and it is difficult to ascertain their true bearing on the problem that Government has to solve. It would be useless to recapitulate all the cases that illustrate the well-known failure of the District Police in Bengal. In Kulpi, in the 24-Pergunnahs, two of the ringleaders in a dacoity case were chowkidars, while the punchayet was the receiver; in Murshidabad the chakeran men are described as a community of subsidised ruffians mostly belonging to the criminal classes and constituting a positive source of danger to the public; while abuses in the matter of distribution of pay and arrears of collection continue as numerous as ever. There are a few exceptions to this very general failure, but the reports have long since shown that further reform is needed. Colonel Ramsay, District Superintendent of Police of Monghyr, was placed on special duty at the end of the year in order to investigate certain points connected with the chowkidari system. His labours have now merged in those of the Committee which has been appointed to consider the general question of police reform. It will be, perhaps, the most important portion of the Committee's duty to attempt to devise means of welding together more completely than has hitherto been done the rural and the regular police. In the tea districts it will probably be necessary to introduce some system by which Government may be kept informed of what goes on in the gardens. Mr. Veasey sums up the present conditions in the following unfavourable terms:—

"The position of the chakeran men remains as it was, whilst that of the others has much improved wherever attention has been given to the subject, and in Chota Nagpur at all events, under the special Act, the chowkidar has at present certainly nothing to complain of. In any further legislation which may be attempted the powers of the punchayet should be restricted to assessment and collection, and the chowkidar must be brought under police control in a way that will bring home to him the fact that he is our subordinate with nothing to expect or fear from the village community. But the material is for the most part bad and rotten, and by placing things on a sounder footing we are not removing its inherent vices."

5. One hundred and twenty special constables were appointed during the year in the districts of Howrah, Pubna, Faridpur, Patna, and Monghyr. Out of these, 10 were employed in the Behar sub-division of the Patna district for an unspecified period. This was, however, contrary to the provisions of section 17 of Act V of 1861, under which the period for which the men were appointed should have been specified. The attention of the District Magistrate will be called to this irregularity. It is worthy of notice that in Jessore, Dacca, Mymensingh, and Tipperah not a single special constable was appointed during the year, though this measure used to be freely resorted to in those districts in previous years. The three parties of punitive police in the district of Backerganj continue to be retained.

6. Four head constables and five constables were judicially convicted and sentenced to various terms of imprisonment for ill-treating accused and suspected persons; and one sub-inspector and three constables in Jessore were dismissed for the same reason, although the judicial prosecution against them broke down for want of corroborative evidence. On this subject Mr. Veasey remarks—

"This exhausts the list of cases of this nature ordered to be shown as true, and it cannot, I think, be said that it is either long or serious. It is certainly outnumbered by the list of false charges, for accusations of this nature are much in favour amongst the criminal classes and their advisers; but although the police attach far too much weight to confessions, the old stock theory that most confessions are extorted by violence might very well be put on one side, though it is too much to hope that this will happen."

7. The percentage of officers punished departmentally shows a slight falling off, but is still very high. It is noteworthy that out of a total of 928 sub-inspectors, so many as 487, or over 52 per cent., should have been thus punished during the year. The Lieutenant-Governor agrees with Mr. Veasey in considering that minor breaches of discipline should, as far as possible, be dealt with departmentally, and that a resort to law in such cases should always be discouraged. But he also thinks that District Superintendents should not lightly, or hastily, fine their officers, who are, even at the best, far from being well paid; and generally, in inflicting punishments on their higher subordinates, they should not lose sight of the necessity of preserving their dignity in the eyes of the lower ranks. Sir Steuart Bayley is inclined to fear that sometimes

injudicious severity does mischief and deters persons of respectability from offering themselves as recruits.

8. Money rewards were given to 1,600 officers and men and 34 more were specially promoted. The Lieutenant-Governor has seen with approval the names of the Inspectors, Sub-Inspectors, and Head-constables selected for particular mention; it is satisfactory that officers of this last much abused grade have been found deserving of this distinction.

9. Deaths from suicide increased from 2,448 to 2,917. In Cuttack (250), Jessore (204), Nadiya (185), Gya (170), 24-Pergunnahs (166), Dacca (162), Rajshahye (123), Sarun (111) and Puri (102), the number of suicides exceeded 100. It is remarkable that all these districts have headed the list for the last six years. In Gya and Dacca there were 13 and 6 cases, respectively, of suicide by children. The number of suicides by young women and girls might, as suggested by Mr. Veasey, be separately shown in future. The number of accidental deaths rose from 28,053 to 31,823. It is said that 20 cases reported as accidental death proved on enquiry to have been murders or culpable homicides. It should have been noted whether prosecutions were instituted in any of these cases for giving false information, and if so, how far they ended in conviction.

10. The following statement shows the proportion of cognizable crime to population and police in various provinces of India :—

Province.	Police.	Population.	Crime (cognizable).	Proportion of police to population.	Proportion of police to crime (cognizable).	Proportion of crime (cognizable) to population.
				Policeman. Persons.	Policeman. Cases.	Cases. Persons.
North-Western Provinces and Oudh ...	32,652	43,323,599	192,123	1 to 1,326	1 to 5·8	1 to 225
Punjab	20,095	18,842,264	87,721	1 to 937	1 to 4·3	1 to 214
Central Provinces	8,053	9,838,731	25,505	1 to 1,137	1 to 2·9	1 to 385
Bombay, including Sind	19,049	15,674,613	41,178	1 to 822	1 to 2·1	1 to 380
Madras	21,048	30,868,504	128,476	1 to 1,425	1 to 5·9	1 to 240
Assam, including Frontier Police ...	4,607	6,064,298	10,934	1 to 1,316	1 to 2·3	1 to 554
Bengal	23,306	65,964,160	111,476	1 to 2,830	1 to 4·7	1 to 591

In paragraph 14 of the Resolution on the Report for 1888, the difficulty of drawing any satisfactory conclusion from such statistics as are given in the above table was commented on, and it was said that it would be more interesting to compare the police of Bengal with that of other provinces in the matter of success in dealing with crime. In accordance with this suggestion, Mr. Veasey gives the results obtained by applying the tests of police work to the crime of the different provinces, and the following table has been compiled from these results :—

	North-Western Provinces and Oudh.	Punjab.	Central Provinces.	Bombay (including Sind).	Madras.	Assam (including Frontier Police).	Bengal.
Test A3—Percentage of police cases ending in conviction to cases investigated ...	35·4	33·8	51·6	32·4	27·2	30·5	32·8
Test A4—Percentage of police cases ending in conviction to cases decided	69·4	63·8	74·6	58·3	68·9	62·5	59·2
Test B2—Percentage of persons convicted in police cases to persons arrested by police	62·6	57·2	66·6	43·2	42·9	55·8	48·7

The Lieutenant-Governor concurs with Mr. Veasey in his opinion that Bengal does not "appear to advantage as regards judicial results, and the figures given under test A4 must represent a large number of failures of justice. The high standard of proof demanded, the latitude allowed to the advocates of accused persons, and the dilatory procedure so much in vogue, are all obstacles well known and to be reckoned with in these provinces, whilst elsewhere they may be factors of less importance, but they would not exercise the influence they do if investigating officers were more careful and if supervision were more efficient." At the same time, (if the Central Provinces, which are in a great proportion inhabited by comparatively simple races, be excluded) the variations between provinces are not so great as might reasonably have been expected.

11. The following figures show the amount of cognizable and non-cognizable crime reported in the province as compared with that of the two previous years:—

	1887.	1888.	1889.	Increase as compared with 1888.	Increase as compared with 1887.
Cognizable ...	101,969	110,357	119,656	9,299	17,687
Non-cognizable ...	109,254	112,006	117,407	5,401	8,153
Total ...	211,223	222,363	237,063	14,700	25,840

During the year under review there was an increase of cognizable crime in all the Divisions of Bengal except Rajshahye, the increase being most marked in the Burdwan and Patna Divisions. In non-cognizable crime there was also a general increase, the only exception being Patna, which shows a small decrease of 127.

As in the previous year, the increase in cognizable crime was mainly under "Cases against property" and "Other cases," the number of which rose from 68,951 and 30,275 in 1888 to 74,431 and 34,072 respectively in 1889. This is said to have been chiefly due to the high prices of food-grains during the year. As remarked in the Resolution on the Jail Administration Report for 1889, the large increase of offences against property also affected the number of direct admissions into jail during the year, which rose to 33,542, the highest that has been recorded since 1879. The details of the increase in non-cognizable crime will be noticed in paragraph 23 below.

12. The percentage of cases declared false decreased slightly from 6·0 to 5·8. The divisional percentages vary from 7·8 in Chittagong to 3·9 in the Orissa Division. The variations are most marked in the district returns, the highest being 21·2 in the Chittagong Hill Tracts and the lowest 1·3 in the Sonthal Pergunnahs. In the Burdwan Division, the percentage varied from 8·2 in Hughli to 2·1 in Howrah. The high rate in Hughli is said to have been due to the inclusion in the returns of direct cases summarily dismissed under section 203 of the Code of Criminal Procedure, while no satisfactory explanation is given of the abnormally low percentage in Howrah. In this latter district a Sub-Deputy Magistrate was employed in making preliminary enquiries in false cases, a delegation of duty of which the Lieutenant-Governor does not approve. It is to be observed that in some cases the same districts, such as Bogra and Chumparun, in the former of which the percentage was 13·7 against 4 in 1888, and in the latter 9·3 against 17·6 in 1886, show considerable variations in the figures of different years. According to Mr. Veasey these variations are due more to "individual views and influences" than to any local conditions. It seems, however, to the Lieutenant-Governor that, though this statement is true, both in regard to the police officers who investigate and the magisterial officers who decide (and such fluctuations as those shown in Bogra and Chumparun are, doubtless, due to the personal equation of the Magistrates), it does not apparently cover the whole ground, as otherwise it would be difficult to account for the fact that the Chittagong Division generally returns the highest, and the Presidency Division the lowest percentage of false cases. It is unsatisfactory that in Puri, Balasore, and Maldah so many as 24, 31, and 39 cases, respectively, sent up in A form were declared false without any attempt to prosecute. Such wholesale entries as these are, in His Honour's opinion, manifestly unfair to the police.

13. The statistics of the prosecution of complainants for bringing false cases are unsatisfactory in every way. There is a great falling off both in the number of prosecutions instituted and in the percentage of convictions obtained in the Presidency and Chittagong Divisions, and the Lieutenant-Governor has looked in vain for signs of real improvement anywhere. Backerganj, Monghyr, and Chumparun have done best, but the 24-Pergunnahs, Hughli, Patna, Mozufferpur, and Purneah are all exceedingly bad. The whole subject has been reviewed lately by Sir Steuart Bayley in dealing with a proposal which has been made by the Government of the North-Western Provinces to extend the scope of section 250 of the Criminal Procedure Code, and His Honour is of opinion that, although much of the failure of officers in dealing with such cases is due to

preventible causes, much more is due to defects in the law. The remarks of the Commissioner of Orissa quoted by Mr. Veasey, which would tend to the discouragement of prosecutions for laying false charges, do not commend themselves to the judgment of the Lieutenant-Governor, who believes that the evil is far more serious than Mr. Worsley appears to think, and that every prosecution, whether successful or not, acts as a deterrent.

14. The results of sessions trials were unsatisfactory in the extreme, the percentage of convictions for the whole province falling from 56·0 in 1887 and 51·7 in 1888 to 49·1. For the first time for many years the chances of the escape of an accused person who has been formally committed for trial by an investigating officer appear to be greater than the chances of his conviction. For this result the districts of Pubna and Bogra, appear to be very largely responsible, and the Lieutenant-Governor cannot but think that causes other than the alleged misconduct of the police must have contributed to the failures of justice that undoubtedly occurred. The percentage fell in Bogra from 51·7 in 1888 to 22·2 in 1889, and in Pubna from 48·9 to 10·0; and it is worthy of notice that the Jail Report for the past year shows that Pubna headed the list of releases on appeal with a percentage of 22·76, while Bogra was not much better with a percentage of 12·11. These two districts are included in one Sessions charge.

The Lieutenant-Governor is glad to see that the good management of the Government Pleader of Rungpur is given as the reason for the improvement in that district. In six out of eight jury districts the results were bad, notably so in Hughli and Burdwan, but in Patna there was great improvement, and in Howrah the percentage (60·4) was above the average. The subject of trial by jury is now under the special consideration of the Lieutenant-Governor, who has been asked for a report on the subject by the Government of India.

15. The following table shows the number of true cognizable cases for the last five years, as well as the percentage of convictions obtained in such cases during those years:—

	1885.	1886.	1887.	1888.	1889.	1885.	1886.	1887.	1888.	1889.
Abetment	1	...	2	...	1	.....	.....	...	.....	.....
Class I.—Offences against the State and public tranquility.	2,802	2,801	2,901	2,872	2,818	57·7	56·7	59·0	57·9	61·1
„ II.—Serious offences against the person.	4,484	4,542	4,545	4,622	4,702	43·3	41·8	43·0	42·6	47·1
„ III.—Serious offences against person and property or against property only.	24,103	22,803	22,234	25,247	27,824	9·7	8·4	8·5	8·2	8·6
„ IV.—Minor offences against the person.	2,533	2,682	2,427	2,405	2,334	21·9	21·1	19·6	20·8	20·1
„ V.—Minor offences against property.	42,206	40,020	36,131	38,381	41,032	36·2	34·6	33·4	23·6	35·8
„ VI.—Other offences not specified above.	24,819	27,003	27,753	30,159	33,980	89·9	88·8	89·5	89·3	90·7
Total ...	100,948	99,941	95,993	103,686	112,061	43·7	43·9	44·7	44·4	46·0

These results justify the conclusion arrived at in connection with the recent enquiries into the state of crime, that a large proportion of serious offences goes unpunished in Bengal. The reasons for this unsatisfactory conclusion, and the best method of organising reforms, are now the subjects of special enquiries.

16. CLASS I.—*Offences against the State and public tranquillity.*—Under this class there was a small decrease of 54, due to a falling off in cases of rioting. The cases of coining were few in number and mostly unimportant. The decrease in the number of rioting cases is found in three Divisions only, an increase being shown in the number of such cases in all the others. The great fall from 512 to 377 in the Dacca Division is most satisfactory, although even this lower number still leaves the Division at the head of the list. There were 353 cases in the Patna Division, but they were generally of a trivial nature, and the number does not appear excessive when the large area and vast population of this Division are taken into consideration. There were some serious cases in the Presidency Division, in which rioting has increased in the past two years. Jessore and the 24-Pergunnahs are responsible for the increase, while the figures in Khulna are still high. A most satisfactory fall in the number of persons bound over in Backerganj was not followed by any increase in rioting, though the presence of three bodies of punitive police in the district must have had its proper influence on the figures.

There is but little to note in the way of individual cases. In Nadiya the police sent up both parties in a serious case in which two men were killed by

the defending party, but the plea of private defence was successfully raised, and only trifling punishments were awarded. In the Narail sub-division of Jessore hired mercenaries were engaged by rival zemindars for local warfare, but they were usually dealt with leniently, and the principal criminals were left untouched. In a case from Bagirhat in Khulna the action of the executive is severely criticised by Mr. Veasey, and a special report will be called for. In Jalpaiguri a vague reference is made to an increase in attacks on managers by tea-garden coolies, but no details are given. In Sarun there were some disputes about the cutting of bunds, inevitable in a season of floods; and in Patna there was one serious riot in which the sepoys of the 2nd Native Infantry at Dinapur were concerned. The matter was taken up promptly by the military as well as the civil authorities, but with unsatisfactory results.

Only 8 persons were convicted during the year for harbouring offenders as against 9 in 1888. As remarked by Mr. Veasey, this offence is no doubt much more common than is generally supposed, and a larger number of convictions would be obtained if the law were set in motion in every case, and if perfunctory excuses were more commonly rejected.

17. CLASS II.—*Serious offences against the person.*—There is very little fluctuation in the figures under this class. There was a slight improvement in the percentage of convictions before the Sessions Courts (47·9 in 1889 to 44·4 in 1888), but the standard is very low. On the whole, the results in cases which come under this heading fully justify recent strictures on the working of the police, and show that they are as unsuccessful in prosecution as in detection.

There were 316 murders, the largest number reported since 1880. Robbers were responsible for 26 of these as against 10 in 1888 and an average of 8·2 for the five years before that, and there were again 13 due to poison. It is curious that this is the exact number of murders by poison in the years 1887 and 1888, and the average number of such murders in the four years before 1887. The increase in the total number of murders must be considered with the decrease of 17 in the number of culpable homicides.

There was a slight improvement in the percentages of conviction, but the standard is so low that there is not much room for congratulation. In one of the cases of murder by dacoits in Midnapur all five of the dacoits were sentenced to transportation for life, but only six persons had been convicted for murder as robbers before the close of the year. In the cases of murder by poison only one solitary person was convicted. For all other murders 214 were acquitted at the Sessions and 103 convicted, the majority of the latter receiving sentences of transportation.

If the figures of this class of crime be taken separately for each Division, a marked feature of the statistics is, as usual, the very large number of cases reported from the Dacca Division, in which serious crime is always prevalent. The statistics in Backerganj alone will bear comparison with those of the whole Divisions of Chota Nagpur, Orissa or Bhagalpur, and Mymensingh is not far behind Backerganj, and it is in Mymensingh that there has been a notable increase in 1889 of 71 true cases. In the Presidency Division there has been a marked decrease common to most districts, while in Burdwan there has been an increase due chiefly to the district of Hughli. The figures for the Rajshahye Division show an increase of 33 cases in Rungpur, and those of the Chittagong Division show that there has been a distinct growth of crime attended by violence in the district of Chittagong. Chumparun, in the Patna Division, shows an increase of over 50 per cent.

Results in murder cases were very bad in most Divisions. In the two jury districts of Burdwan and Hughli there was not a single conviction in 20 cases. In the Presidency Division 63 persons were tried for "other murders," but only eight convicted. In 10 cases in Dacca only two persons were convicted, while in Faridpur, in the same number of cases, 44 persons were released and one was convicted. In Patna there was no conviction in a murder by dacoits and three murders by robbers, while in the Patna Division generally there were only nine persons convicted to 48 acquitted in 39 murders. But these are only examples of the general rule of results in 1889, and the Lieutenant-Governor agrees with Mr. Veasey in thinking that most of the failures of justice are due to the police attaching too much weight to confessions and the Courts too little weight to circumstantial evidence.

In perusing the brief accounts of important cases given by the Inspector-General, it is melancholy to note that many were due to quarrels between husbands and their youthful wives. In Hughli a school pundit, afterwards shown to be insane, hacked his wife, a girl of 13, about the head with a *katari* because she would not or could not satisfy his desires. In Nadiya a husband killed his wife, a sickly girl of 12, for refusing to cohabit. In Maldah a man throttled his child-wife, aged 11, because she could not satisfy his lust. He was treated with extraordinary leniency by the Judge, who gave him two months' imprisonment for hurt—a sentence enhanced by the High Court to two years for culpable homicide. In Hughli, again, a young wife of 15 refused to cohabit with her husband, and died from the effects of the savagery with which that husband and his two brothers branded her in and about her private parts. In the remaining cases of wife-murder the ages of the victims are not given, but a further case in which a girl of 14 was chopped to death by her father-in-law on suspicion of misbehaviour may be mentioned here.

In Midnapur a woman was murdered by her neighbour, also a woman, who charged her with having bewitched her husband. The murderess escaped from the police, but was taken by some cooly recruiters, into whose hands she fell, to the sadr station, where she was recognised and re-arrested.

In a case in Dum-Dum which attracted much attention, a villager was shot by one of four European soldiers out in search of liquor. The criminal was convicted, but the conviction was upset by a Full Bench of the High Court—a notable instance of failure of justice.

In Rajshahye the following extraordinary case is reported, and the action of the officers who dealt with it will be further enquired into:—

"A man chained his wife up and then handed the key to his kept woman, who set fire to the house and let her burn with it, refusing to give up the key when it was demanded. This atrocious crime was, in the opinion of the trying Magistrate, sufficiently punished, as far as the husband was concerned, by a year's imprisonment and fine on a conviction only for wrongful confinement, whilst the woman got an additional year on a further conviction under 304A. Eventually it found its way to the Sessions, where the woman was transported for life, whilst the sentence on the husband, light as it was, was made lighter, though there was evidence to show that he had removed all his property and was no doubt an accomplice before the fact."

It is satisfactory to note that in Backerganj a principal, who had turned Queen's evidence and retracted his statement at the Sessions trial, was given five years' imprisonment on his own statement under section 194, Indian Penal Code.

The son of one of the zemindars concerned in the murder of a tehsildar in 1884 surrendered himself, and, although acquitted by the jury, was sentenced to three years' rigorous imprisonment by the High Court.

In two cases in Bhagalpur and in one in Patna there was strong evidence to show that the informants had killed one of their own party for the purpose of instituting a serious false case against an enemy; and in a case in Singbhum a burglar was wounded by the owner of the house and then murdered by his companions, who cut off his head to prevent identification.

Two cases in Tipperah are thus described:—

"An unpopular naib was shot dead at night as he was holding cutcherry; the case for the prosecution being that this was the work of a number of the ryots, who had hired a bad character from a distance for the purpose. Twelve persons were arrested and sent up, and seven of them were convicted at the Sessions: however, they were all released on appeal.

Another bad case in this district, described by the Commissioner as 'as cold-blooded a murder as could well happen,' ended in the principal accused being convicted of hurt and sentenced to six months' rigorous imprisonment. A mahout was pushed off his elephant in a bheel by two men, who deliberately left him to drown, rapping him over the knuckles when he tried to get into their boat, and afterwards cynically described his dying struggles."

There were 234 cases of culpable homicide against 251 in the previous year. The decrease is nominal, some cases having been included under the head of murder. The results of trials show a slight falling off, the percentage of convictions in true cases being 38·8 against 40·2 in 1888.

Drugging cases rose from 28 to 30. The number of persons convicted was six, the same as in the previous year. In the Rajshahye Division, out of 13 persons sent up in nine cases, 12 were discharged or acquitted. Four cases occurred in Manbhum, in all of which the victims were travellers, who fell a ready prey to designing persons. Only one arrest was made.

18. CLASS III.—This class includes dacoity, robbery, serious mischief, and burglary.

The increase in these crimes reported in 1888 shows no signs of diminution in 1889. The results of trials are wholly unsatisfactory, and there is scarcely any portion of the report, which is the reverse of flattering to the Police in most of the statistics it produces, which more seriously reflects on their efficiency than this.

The following table shows the figures relating to dacoity for the last five years:—

	Cases, including those pending from previous year.	Convictions.	Percentage.	PERSONS.			Percentage of convictions to persons who appeared.	Percentage of convictions to persons tried.
				Appeared before Magistrate.	Convicted.	Acquitted.		
1885	182	37	20·3	663	159	385	23·9	29·2
1886	113	35	30·9	558	135	291	24·1	31·6
1887	115	24	20·8	508	95	277	18·7	25·5
1888	144	34	23·6	607	132	399	21·7	24·8
1889	190	31	16·3	782	168	554	21·4	23·2

The percentage of convictions and the very great increase in the number of persons acquitted are both most serious features of the above statistics. The falling off in power and efficiency is everywhere observable, though Burdwan and Patna account for 16 cases each out of a total increase of 40 cases. In Chumparun alone, there were 13 cases against a blank return for 1888. This serious outbreak of crime is attributed to the distress caused by high prices. Out of 35 persons sent up from this district, only nine were convicted, 26 being released. Results are worse in the Hughli district, which, with 11 cases, shows only one conviction under section 411, Indian Penal Code. In the Rajshahye Division, again, only two persons were convicted in 17 cases, against 49 discharged or acquitted. In the Burdwan district no arrest was made in three out of four cases, while in Purneah all the nine persons convicted have since been released by the High Court. The only exception to this general run of bad results is Tipperah, where, out of 40 persons sent up for trial in four cases, 28 were convicted—a result no doubt creditable to the police of both Tipperah and Noakhali, who worked together, the dacoits belonging to the latter district.

In Midnapur there was a small increase from 8 to 11 cases. Five troublesome gangs in this district were broken up during the year, one of the ringleaders (Kristo Chunder Chowdhury), who admitted having had a hand in 15 dacoities, and who was last released from jail in 1885, being sentenced on conviction to transportation for life. It is hoped that the breaking up of these gangs will have the effect of materially diminishing the number of dacoities in this district.

Two river dacoities, both attacks on rice-boats, are reported from the 24-Pergunnahs. The Inspector-General says that in these cases the accused were summarily acquitted and released at the Sessions without the evidence against them having been gone into. He adds:—

"The police do not appear to have been to blame. In the course of investigating one of these cases they were opposed and roughly handled, a sub-inspector having his arm broken, whilst the number of men concerned in the original case is given as not less than 150, and an attempt had been made to scuttle the boat on the villagers coming to the crew's assistance.

"The failure of these two cases is not only unfortunate in itself, but must encourage and strengthen the demands for black-mail which are known to be made from time to time upon certain sections of the route through the Sunderbuns. It is easy enough to discourage reporting, and when manjhis find they are not protected, we can hardly blame them if they pay what is asked and say nothing, sooner than give offence by employing the police to conduct investigations and make arrests which are after all to end in nothing. There were 18 men acquitted in these two cases, and every one of them is a standing example of the many chances on the side of the criminal, who need never despair of scoring a victory."

A case of technical dacoity, but none the less serious, is reported from Dinajpur. In this case the assailants, who used fire-arms and had an elephant, attacked the homestead of a recalcitrant ryot. A man was killed on the side of

the ryots, but the case fell through, as they absolutely denied having recognised any one.

A rather curious case occurred in Bhagalpur, in which a woman hired a gang of dacoits to plunder her brother's house in satisfaction of a claim she had against him. This was carried out; but as the dacoits offered her Rs. 5 only, she applied to the police, who made several arrests and recovered some of the property, but could get only one person convicted.

In a case in Shahabad, a retired Deputy Magistrate returned his loss at Rs. 37,275. The police recovered property of the value of Rs. 4,018, and eight persons, two of them receivers, were convicted at the Sessions.

There were 177 cases of robbery against 155 in 1888. No explanation is given of the increase which occurs under the heading of "Highway robberies." Out of 231 persons brought to trial, only 91, or 39·3 per cent., were convicted. In the Chota Nagpur Division six convictions were obtained in eight cases. In a case of mail robbery in Hazaribagh the accused was, on conviction, sentenced to four years' imprisonment.

There were 501 cases of mischief by fire against 506 in 1888, but the judicial results were extremely bad, 30 persons being convicted against 211 discharged or acquitted. The worst districts were Dinajpur and Mymensingh. In the former district only two persons were convicted in 86 cases, and in the latter only one in 36 cases.

The Lieutenant-Governor is glad to observe that much attention is paid in Dinajpur to the prosecution of criminal gangs. Out of a total for Bengal of eight cases with 93 persons brought to trial, this district alone accounts for three cases and 53 persons. Results were no doubt very poor, only six persons having been convicted; but, as remarked by Mr. Veasey, the sections relating to the offence "have been so little worked that they are new to most judicial officers, and it is only by keeping on that we can succeed in obtaining an explicit ruling as to what the Courts consider necessary."

19. Class IV.—*Minor offences against the person.*—A decrease of 71 under this class calls for no notice. The following case is from the 24-Pergunnahs. A man, whose girl-wife had offended him by running away home, tied her by her hair to a rafter, and on her escaping rivetted a chain on to her legs and kept her thus for a fortnight. He was on conviction sentenced to six months' rigorous imprisonment.

20. Class V.—*Minor offences against property.*—Including burglaries, which, for purposes of comparison, are usually treated with offences under this class, as well as under Class III, the number of cases was 66,932 against 61,711 in 1888. The large increase of 5,221 cases is attributed to the failure of crops and the consequent impoverishment of the lowest classes. The variations were most marked under the heads of theft and burglary, which show an increase of 2,305 and 2,501 cases respectively. Under burglary the percentage of convictions in cases was 7·5 against 7·2 in 1888; but the percentage of persons convicted shows a slight improvement, being 55·5 against 53·7. This is said to be due to the fact "that in a considerable proportion of cases the men sent up have been caught red-handed, so that the police have had their work done for them." Patna is again the worst among the Divisions, the number of burglaries (7,654) being nearly 700 more than any total reached in the Division during the last eight years, and 1,529 more than the total for 1888. Chowkidari parades and an increased use of the power to refuse investigation under section 157 have undoubtedly contributed to this increase; but the danger of too free a use of this power is shown in the falling off of cases in Patna, where there was a high percentage (37·0) of refusals, and Mr. Veasey is probably right in thinking that with fewer refusals there would have been more crime reported. In this matter the Lieutenant-Governor considers that much discretion should be left to the District Superintendents and their station officers, subject to the control of the Magistrate, and His Honour would call attention here to the remarks made in paragraph 12 of the Resolution on the Report for 1887:—"The discretion is one which must be exercised. It requires to be carefully controlled, as it is liable to serious abuse, but its judicious exercise may relieve the police of much useless work. No general orders should be laid down in any district that particular classes of cases are not to be enquired into." The large increase of burglary in the Patna Division attracted the Lieutenant-Governor's notice last year when

dealing with the statement of serious crime for the third quarter of that year. The attention of the Commissioner has since been drawn to the matter, and he has been asked to impress upon Magistrates and District Superintendents in the Division the absolute necessity for greater exertion on their part in the matter of checking and controlling this crime.

Amongst districts the worst was Monghyr with 1,945 cases against 1,890 in 1888. In the Bhagalpur district there was an increase of 329 cases owing, it is said, to better reporting and high prices. The results in Midnapur were good in comparison with the bad ones last year, and the remarks of Mr. Munro on the crime of this district, which have been quoted by Mr. Veasey, show an intelligent grasp of the wants of the district which is not always to be found elsewhere. In Dinajpur much good work is said to have been done of late years. This is indicated by the fact that there was a decrease in burglary both in 1889 and in the previous year, though the causes at work were much the same. Judicial results were, however, not satisfactory. In this connection the Magistrate remarks:—

"It is difficult to obtain a conviction from some Deputy Magistrates, and in a great many true cases the offenders go unpunished."

There is, however, nothing to prevent notable instances of failures of justice from being reported to Government with a view to an appeal being preferred against the order of acquittal.

In Darjiling the number of cases increased from 91 to 141, or more than 50 per cent., while Faridpur shows an increase of 125 cases, and results are said to be going from bad to worse. Separate reports will be called for regarding both these districts.

21. CLASS VI.—*Other offences not specified above.*—An increase of 3,791 cases under this class was due to prosecutions for nuisance, the number of which rose from 21,641 to 25,599 during the year.

Bad livelihood cases show an increase of 54, but, as remarked by Mr. Veasey, this is far from satisfactory, in view of the fact that there was such a considerable increase during the year in cases of dacoity and burglary. Two thousand and twenty-five cases were instituted on the report of the police and 82 by petition before the Magistrate. Of these 1,178 of the former and 49 of the latter ended in conviction. In paragraph 27 of the Resolution on last year's Report, a report was called for from the Inspector-General of Police on the subject of reckoning the time occupied in disposing of these cases. This report has since been received. Mr. Veasey recommends that the date of institution be reckoned from the date on which the report is made to the Magistrate. The Lieutenant-Governor has no objection to this recommendation being given effect to, but he desires at the same time that the procedure which has been followed in the present report may be continued, and that a separate column may in future be appended to statement J, showing the average duration of cases from the date on which the first process is issued. This will show at a glance at what stage the procedure in Court has been dilatory. The Lieutenant-Governor is disappointed to find that, though the importance of disposing of these cases as quickly as possible has repeatedly been insisted upon in previous Resolutions, the returns for the past year show no improvement in this respect. In 29 districts the average duration of cases exceeded 50 days from the date of first report to the Magistrate, while in two districts it was more than 100 days. In Durbhunga a case was no less than 717 days, or for nearly two years, under trial; while in one case in Dinajpur and in another in Midnapur so many as 442 and 404 days, respectively, were allowed to intervene between the date of report to the Magistrate and that of the issue of the process. Such delays as these are wholly inexcusable and completely stultify the whole proceedings. Again, there is apparently no reason why the average duration of a total of 31 cases in Dacca should be 148 days, when Sarun with 88 cases shows an average duration of only 4·6 days. As a means of effectually putting a stop to these delays, Mr. Veasey suggests that the cases should be entered in the Magistrate's case register. This matter will be dealt with separately. The number of cases tried in Court was 1,083, against 811 tried locally. The Lieutenant-Governor is of opinion that the increase in the number of cases tried in Courts is a move in the right direction, though he would not wish that the advantages of an efficient local enquiry should be forgotten. But the delays that are inseparable from an invariable determination

to try these cases locally have very bad effects, and His Honour wishes to repeat here the remarks made in the Resolution on the Report for 1886, that "it is far better that a case should be taken up at once in Court than that men should have charges hanging over their heads for months and months because it is not found convenient to depute an officer to the spot. There are many cases in which it is no kindness to the suspected person to make the enquiry in his village, and in which no advantage can accrue from such a procedure." The number of bad characters under police surveillance rose from 41,561 to 42,812. The increasing number on the registers is, however, the chief obstacle to effective scrutiny, and the Lieutenant-Governor is therefore glad to observe that Mr. Veasey has introduced a system of classification which, by making the duty lighter, will enable the police to devote more attention to habitual criminals.

Offences against excise laws fell from 2,753 to 2,687. The decrease was chiefly under the head of illicit possession or sale of country spirit. Opium cases decreased from 30 to 16. There was only one important case, in which two Punjabis, who were found with 41 seers of Nepal opium concealed in under-jackets made with pockets fitting over their shoulders, were sentenced to a year's rigorous imprisonment each. An increase of 742 in offences against the salt laws was mainly due to Balasore, where the number of cases rose from 46 to 579. No explanation is given of this large increase.

22. *Railway Police.*—There was an increase of 314 in the number of cases reported. Out of 3,016 persons brought to trial 2,504 were convicted. Mr. Veasey remarks:—

"The police as a rule are very successful with pick-pocket cases, which are nearly always the work of habitual criminals; but in these days of light sentences the releases pretty well balance the convictions, and the thief on coming out returns to his old ways, only changing the scene of his operations. A case is mentioned in which an old offender sentenced to five years at the Sessions was released on appeal, as the money was found under the seat. He was sitting next the person robbed, who had his pocket slit open in the usual way, and the result may perhaps be considered unfortunate. In two cases railway thieves of this class, well-dressed men of respectable appearance, came under observation only owing to their travelling without tickets, and were then found to be old hands, who would of course have indignantly resented suspicion."

In the case of a dacoity at Paleza ghât the railway employés, who out-numbered the dacoits, excused themselves from assisting the police on the plea that they were not engaged to fight, and that if they did and got hurt they would probably be discharged. As an instance of the failure of railway cases when tried by inexperienced officers, the Assistant Inspector-General of Government Railway Police on the East Indian Railway mentions a case in which a pointsman, guard, and driver were prosecuted for gross negligence which might have been attended with the most disastrous results. The pointsman was convicted, but the driver and the guard were both acquitted, the former on the ground that it was a dark night and it was difficult for him to see, and the latter because he had "too much other work to look after between the stations." He suggests that it might be considered whether the more important cases should not be tried at the head-quarters of the district in which they occur by one of the senior officers. The Lieutenant-Governor does not see his way at present to issue a general order to this effect. The attention of the District Magistrates will, however, be called to the importance of taking up all such cases themselves, where possible, or at least of seeing that they are not tried by inexperienced officers.

One hundred and fifty-three persons were killed in 217 railway accidents, including 34 railway servants and 25 persons who committed suicide.

23. *Non-cognizable crime.*—Non-cognizable offences increased by 5,401, as will be seen from the subjoined table:—

	1888.	1889.
Class I	8,556	8,581
„ II	30	33
„ III	955	848
„ IV	56,689	56,535
„ V	9,110	9,730
„ VI	11,074	11,856
Special laws	25,592	30,324
Total ...	112,006	117,407

The increase was mainly in offences under "special laws," and was due to a larger number of prosecutions under the Municipal Act. In class VI cases under section 106 of the Criminal Procedure Code (security for keeping the peace on conviction) fell from 1,907 to 1,860. It is to be regretted that Magistrates make so little use of this important section, which, judiciously applied to a certain class of offenders, may be employed with the most salutary effect. The attention of district officers will be called to this matter Process was issued against 115,303 persons in 1889, of whom no fewer than 31,594 were acquitted. In many districts compliance with a summons appears to have been more or less a matter of choice, as remarked by Mr. Veasey, and the percentage of persons who appeared to persons summoned, which stands at the low figure of 78·7 for the whole province, is very low indeed in the districts of Dacca, Faridpur, Purneah, Noakhali, and Tipperah. The above figures combine to show, even when full allowance is made for compromises appearing as acquittals, that complaints are insufficiently tested before process is granted, and it will require the close and constant supervision of the Magistrate to check the failure in administration which these statistics disclose. There is perhaps some error of calculation in the case of those districts which show this percentage as over 100 per cent., and explanations will be called for from the officers concerned; it seems scarcely likely that so large a number of persons as these returns indicate would voluntarily appear before the Magistrates without the issue of process.

In last year's Resolution the Lieutenant-Governor approved a proposal made by the Inspector-General of Police that in reporting the number of cases of non-cognizable crime in which the police are employed, only such cases should be shown as are referred to them by the Magistrate for enquiry. Mr. Veasey now brings to notice that it frequently happens that in the same complaint charges, both cognizable and non-cognizable, are mixed up together, and suggests that Magistrates should, when ordering an enquiry, state whether it is to be treated as cognizable or non-cognizable in the first instance. There is no objection to the adoption of this suggestion, and instructions will be issued accordingly. The practice which obtains in the Noakhali and Tipperah districts of employing even apprentices to make preliminary local investigations under section 202, Criminal Procedure Code, is highly reprehensible, and should be at once discontinued.

24. *Remands.*—The number of A forms sent up rose from 35,716 to 38,605. They were disposed of as follows:—

	1888.	1889.
At first hearing	34·6	37·3
Remanded once	20·6	20·1
Do. twice	13·9	13·4
Do. thrice	9·8	9·2
Do. four times	·2	6·1
Do. five do.	4·2	3·9
Do. six do.	2·7	2·6
Do. more than six times	5·1	5·1

There was a slight improvement in the percentage of cases decided on the first two hearings, but the percentage of cases remanded more than six times continued the same. Amongst districts it was only in Hughli, Howrah, the 24-Pergunnahs, Darjiling, the Chittagong Hill Tracts and the Gurjhats that more than two-thirds of the cases were decided in two hearings, while in Lohardugga, Faridpur, Jessore, Bogra, and Noakhali less than one-third were concluded in the same number of hearings. Mr. Veasey says :—

"A selection of cases made haphazard (in Lohardugga) brought to light one case remanded 20 times, another 10, another 9, and another 7. The Hazaribagh report mentions a case tried by a Munsif with magisterial powers which lasted for over two months, though the value of the property was only 2 annas. I have not seldom, however, seen as bad instances amongst Magistrates, and the knowledge that they are noticed soon works reform. Of the delays in Faridpur no notice is taken. In Noakhali the District Superintendent states that he finds nothing to note, and the subject is not referred to by the Magistrate, whilst the Commissioner says generally that officers were everywhere overworked. In Bogra the blame is laid on an officer who was at Dinajpur in 1888, and the Magistrate suggests that he must have been responsible for the delays noticed there in that year. There were 51 cases in this district remanded for more than six times, but it is not said how many of them were on his file. Seven cases were remanded 11 times and one 15 times."

The general inferences which have been drawn by the Lieutenant-Governor are (to use the words of the Government of India) "that although crime generally is not positively great in Bengal, and is decreasing relatively to the increase of population, certain offences show a tendency to increase; that an unduly large proportion of the crime actually occurring is not brought to the notice of the Police or of the Magistrates, and is therefore never enquired into; that the Police enquiry into a large number of the cases taken up is fruitless, and such cases never come before the Courts, and that a disproportionate number of the persons brought before the Courts are acquitted." The broad result is that upwards of 70 per cent. of serious crime goes unpunished, that at least 90 per cent. of the most dangerous offences against property remain undetected, and that in the 11 years under review the percentage of convictions among the total number of persons tried by the Courts and charged with offences included in classes I, II, III, and V never exceeded 56, and in one year fell to 52.

2. It is evidently necessary to enquire minutely into the causes of this highly unsatisfactory condition of affairs, and to ascertain by what means, whether legislative or executive, remedies capable of being made practically effective can be devised and applied. It is, perhaps, not difficult to suggest measures which would be generally useful, but the conditions under which the administration of different provinces is carried on vary so much that practical results are likely to be attained only by concentrating attention on local circumstances and requirements. For this reason the Governor-General in Council has thought it better not to appoint a general Commission to consider the question of Police reform throughout India, but has left it to the Lieutenant-Governor, if he should see fit, to convene a Provincial Committee.

3. Having regard to the magnitude and importance of the questions involved, to the necessity for bringing wide experience to bear upon them, and for looking at them from different points of view, Sir Steuart Bayley is satisfied that the work is not such as can be properly done without a special agency or by the deputation of a single officer. He has therefore determined to appoint a Committee.

4. The Lieutenant-Governor most fully recognises the necessity of obtaining from the public all the information as to facts, and all the advice for future action which can be made available for his assistance. It is for the advantage of the public and for the protection of their lives and property, it is to save them from oppression and needless harassment that the present enquiries are being undertaken; and the Lieutenant-Governor quite understands that they have opportunities of observing Police work from points of view which are not accessible to officials. Still he thinks that, in the beginning at all events, a small official Committee will be best adapted to direct enquiries and collect information. He desires that information should be collected from all sources, but there is in Police work very much that is technical and requires official experience to understand and appreciate its various relations. Many plausible suggestions are likely to be brought forward which may not be capable of introduction into any practical scheme; but the detection of the difficulties would be scarcely possible to persons who have not had the advantage of special experience. At a later stage His Honour will probably enlarge the Committee, so that the bearings of whatever proposals may be deemed by it worthy of consideration may be ascertained as accurately as possible.

In this way Sir Steuart Bayley hopes to derive the greatest profit from unofficial assistance, while shortening the enquiry and keeping its results within the limits of practicability.

5. The Committee as now to be constituted will consist of the following officers:—

Mr. John Beames, C.S., Commissioner of Bhagulpore ... *President.*
Mr. J. F. Stevens, C.S., Judge of Gya ... } *Members.*
Mr. J. C. Veasey, C.S., Inspector-General of Police ... }

Mr. Beames will be on special deputation from the date of his return from privilege leave. Mr. Stevens will serve on the Committee in addition to his own duties, until arrangements can be made for relieving him of the latter, when he will be on special deputation. Mr. Veasey will serve on the Committee in addition to his own duties, unless hereafter there should appear to be sufficient reason for making some other arrangement.

The Lieutenant-Governor has not thought it necessary to place on the Committee any Police officer in rank inferior to the Inspector-General, because he is aware that the help of the Deputy Inspectors-General will be available, and has no doubt that it will be freely given. His Honour also hopes that the Committee will receive the cordial co-operation both of other officers of Government and of unofficial gentlemen.

6. In the meantime the papers have, by direction of the Lieutenant-Governor, been circulated to certain experienced officers for the purpose of obtaining their general views. The reports have been nearly all received, and His Honour's acknowledgments are due to the writers. They contain much variety of opinion, and there is not a little in them which the Committee may find worthy of consideration. It is not necessary to discuss the different suggestions which have been made, but His Honour desires to record a few observations, arising partly out of these reports and partly out of the orders of the Government of India.

7. In reflecting upon the causes of the comparative failure of the Police in Bengal, it is necessary not to lose sight of the obstacles which the Police, as well as the Magistracy, have to surmount. Foremost among our difficulties is the character of the general mass of the population from which the Police are drawn. The Police are of, and from, the people; and as are the people so are the Police. To speak broadly, the people have but a faintly developed sense of public morality, of the far-reaching duties of the individual towards the public at large; they view without reprobation the giving and taking of bribes; they will not interest themselves, in matters outside their immediate personal concerns, to oppose oppression or blackmail or false evidence or other offences against the public. The Police, therefore, have not the sharp incentive of public opinion to keep them up to the mark, and the discipline to which they are subjected is not sufficient to raise their standard of public morality in any marked way above that of the class to which they belong. Mr. Macpherson describes the state of public feeling in this connection as follows:—"In Bengal" (he writes) "it is, I believe, much more difficult than in England to bring offenders to justice, because we have not here so high a standard of truth and so general sympathy with public justice. The public spirit which in England will prompt strangers and disinterested persons to give evidence for the Crown and for the defence, with no object but that truth may be established, is not often found in this country. The mass of the people have not the intelligence and sturdiness of character which should make them denounce the oppression of a neighbour by a zemindar, or refuse to pay blackmail to the cattle thief, or be ashamed to protect the house-breaker and receiver of stolen goods by professed ignorance of his guilt. Aggrieved persons and witnesses are often reluctant to go to the authorities, because the authorities are dilatory, troublesome and inefficient, and thus cause and result act and re-act on one another. The only remedy for this want of public spirit is to spread education among the masses." Another difficulty which Mr. Macpherson points out arises from the frequent connection of crime with complicated questions of title to, and possession in, land and of tenancy and rent. Other difficulties arise out of climate; houses are left open and property unprotected, while the rains supply facilities for burglary which amount almost to temptation.

But these conditions must for the present purpose be considered as unavoidable. "They justify" (as Mr. Macpherson says) "a demand for good officers. We want better Magistrates, better station police and better village police." The problem to be solved is how these are to be attained.

8. It is admitted universally that the state of the village police is far from being satisfactory under any of the systems which are in force, but there is much variety of opinion as to the remedy. While some would foster the village punchayet and enlarge its control over the village chowkidars, others would go so far as to abolish the village chowdidars entirely and supply their place by an army of constables. Others, again, think it possible to retain the local character of the chowkidar, while binding him more closely to the Police and subjecting him to more strict discipline than heretofore. This is, perhaps, the most difficult and important question which the Committee will have to consider; its solution is not now being attempted for the first time, and the previous essays, their results and their teachings will all have to be passed in review. The Committee will not be obliged to devise an absolutely uniform scheme to

There is no doubt in the Lieutenant-Governor's mind that these delays are to a great extent the result of a want of system and bad supervision. For instance in Purneah, where the number of cases remanded more than six times was 132 out of a total of 769 cases, a frequent excuse for the remand was, the Lieutenant-Governor learns, that the process had not been duly served, yet the late Commissioner found in the course of his inspection that no trouble was ever taken by the judicial officers to ascertain the cause of the failure; again in the sadr subdivision of the Dinajpur district, where no less than 198 cases were pending with the police and 55 with the Magistrates, the case registers, instead of being utilized, had been superseded by a special statement which must have given unnecessary trouble and have afforded insufficient information. This state of things is certainly not creditable to the officers concerned, and the Lieutenant-Governor must insist on the Magistrates exercising a closer supervision over these matters; a systematic and periodical examination of the registers, such as need occupy but little time, would, he is sure, produce a marked effect.

25. *Reconvictions.*—The number of persons reconvicted rose from 1,640 to 1,915. Mr. Veasey remarks that the increase—

"is considerably discounted by the proof it affords that the sentences passed cannot in many instances be really deterrent, and further, that we have a large criminal population who find so little to object to in a life in jail that they begin to qualify for re-admission almost as soon as the gates close behind them. On the other hand, the police generally understand now the importance of verifying the antecedents of accused persons, and much information is thus elicited which a few years ago would have remained neglected."

The Lieutenant-Governor believes that, though there has been some improvement in this matter, much remains yet to be done, both by the police in putting the information before the Courts, and by the Courts in attaching proper importance to previous convictions in awarding punishment. Several cases have recently come to His Honour's notice in which old offenders have been treated with most uncalled for leniency, on the ground that some of the previous convictions proved against them were of a date more than ten years back, and were consequently excluded from consideration. Sir Steuart Bayley is not prepared to accept the principle involved in this explanation, and regrets to think that these and other similar cases show that Mr. Veasey is justified in saying that "authorities who are practically irresponsible (to the Commissioner) are apt at times to ignore local requirements." Amongst districts, Patna and Monghyr take the lead with 123 and 106 reconvictions respectively. There were only four districts, viz., Bankura, Pubna, Bogra and Khulna, in which the number in each case did not exceed 10. In 199 cases, as against 142 in 1888, it was proved that the accused had been convicted three times or more.

26. *Criminal Tribes.*—Under the directions of the Government of India, the subject of the control and punishment of Criminal Tribes is now under special enquiry, and the Committee on Police Reform has been asked to take the subject up. The Mughya Domes still continue to give much trouble, and the scheme instituted some years ago for their reclamation does not appear to have had any lasting success. The question of the retention of the Dome colonies in Chumparun is now under consideration. It is, however, noteworthy that the Magistrate of that district, while he calls them 'pilferers by choice and burglars by necessity,' is of opinion at the same time "that they get credit for much crime which is in reality the work of Ahirs, well-to-do people who thrive by thieving, and with whom the chowkidars are hand-in-glove in consequence," and the Lieutenant-Governor believes that there is much justification for this view. The Rajshahye Division, and more especially the districts of Rungpur and Dinajpur, are still overrun by miscellaneous gangs of vagabonds whose movements it is very difficult to control.

27. *Absconders.*—The total number of names entered during the year was 2,610, of whom 804 were arrested and 531 surrendered themselves. This subject has not hitherto found a place in the annual report. The Lieutenant-Governor fully agrees with Mr. Veasey's comments on the unsatisfactory nature of the returns on this subject, and in his remarks as to the importance of giving special attention to it, and trusts that the Commissioners of Divisions will, in the course of their inspections, personally look into the matter and adopt such measures as may lead to the submission of accurate returns for the several districts under them.

28. In conclusion, the Lieutenant-Governor is constrained to express his opinion that a review of the results obtained by the police from their work in 1889 shows that they have obtained no marked success in dealing with crime, and that there has been a decided diminution of efficiency in the work done in Sessions cases—the most important class of cases with which they have to deal. A Commission has recently been appointed to investigate the causes of failure and, as far as may be possible, to suggest remedies. The fault does not entirely lie with the police, and it is admitted that they frequently have to contend with great difficulties. The Lieutenant-Governor is well aware that among the superior officers there are men who are devoted to their duties, and whose efforts are rewarded by a considerable measure of success; his acknowledgments are due to the District Superintendents and Assistant Superintendents whom the Inspector-General has selected for honourable mention. His Honour also recognises the zeal and ability of the Inspector-General himself.

ORDER.—Ordered that a copy of the above Resolution be forwarded to the Inspector-General of Police and the Commissioner of Police, Calcutta.

Ordered also that a copy of the Resolution be forwarded to all Commissioners of Divisions for information.

Ordered also that a copy of the Resolution and extract paragraph 49 from the Report be forwarded to the Appointment Department of this Office for information.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,
Offg. Chief Secy. to the Govt. of Bengal.

POLICE REFORM IN BENGAL.

RESOLUTION.

POLICE.

Calcutta, the 24th September 1890.

READ—

Letter No. 634, dated 22nd December 1888, from the Secretary to the Government of India, Home Department, to the Government of Bengal.

Letter No. P $\frac{P}{1}$ 2, dated 9th January 1890, from the Chief Secretary to this Government, to the Government of India, Home Department.

Letter No. 398, dated 28th May 1890, from the Secretary to the Government of India, Home Department, to the Government of Bengal.

Resolution of this Government, dated 3rd January 1890, appointing Colonel Ramsay, on special deputation, to enquire into certain matters connected with the chowkidari systems in force in Bengal,

Letter No. P $\frac{P}{1}$ 2, dated 7th July 1890, from the Chief Secretary, to certain selected officers.

The replies to the above letter received from Messrs. A. Smith, D. R. Lyall, C. F. Worsley, R. C. Dutt, C. W. Bolton, H. Savage, W. C. Macpherson, B. L. Gupta, A. W. Mackie, and J. Crawfurd.

Letter No. 208, dated 14th July, from the European and Anglo-Indian Defence Association, to this Government.

The reply to the above letter.

IN compliance with the instructions of the Government of India, the statistics of crime cognizable by the Police, reported and disposed of in Bengal during the 11 years 1878-88, have been scrutinized and compared and the results communicated to that Government.

Various circumstances were indicated which tended to affect those statistics and to prevent them from representing with perfect accuracy the number of cases which had really occurred; but, since no means existed of measuring these influences with precision, it was necessary to accept the figures shown in the statements as giving an approximately correct account of the fluctuations of crime during the series of years to which they referred.

be applied to the whole province. They will, perhaps, find that different tracts require different treatment, and it will be open to them to diversify their suggestions accordingly.

9. Before the appointment of this Committee was contemplated, the Lieutenant-Governor deputed Colonel Ramsay, of the Bengal Police, who was known to have given great attention to the subject of chowkidars, to collect information on various points connected with the institution. His enquiries have now become merged in the more extended investigations of the Committee, and the information which he has obtained is available, and will, it is hoped, be found useful. Sir Steuart Bayley has not found it necessary to ask the Government of India to have the period of Colonel Ramsay's deputation extended, but, if requisite, arrangements can readily be made by which the Committee may obtain his assistance.

A question connected with the foregoing is how far the duty of reporting crime which the law imposes on landholders can be insisted on, and whether any village organization can be expected or relied on to act either co-ordinately or as an efficient substitute.

10. Very great importance must be attached to the improvement of the investigating officers. It is universally admitted that their present pay and prospects are insufficient to attract trustworthy and competent men. In the lower grades especially, it is plain that such a man can barely live on his pay; while, even in the higher, the pay is but an indequate remuneration for the high qualities and great responsibilities which are required of an officer in charge of a station. Neither the names nor the scale of pay suggested by the Government of India are to be taken as final, and it will be open to the Committee to make their own proposals. As at present advised, the Lieutenant-Governor is not inclined to think it altogether immaterial whether an officer employed in investigation is called a Head-constable or a Sub-Inspector. The higher title does in practice, he believes, connote a higher standard. He would also invite the Committee to consider whether the scale of pay provides for sufficiently even and frequent promotion, or whether the increments proposed are not too large and sudden. Due regard is to be paid to financial considerations, but the Lieutenant-Governor would observe that the scheme to be submitted to the Government of India is one which is expected to "place the Police of Bengal upon a satisfactory basis as regards pay and promotion." He is, therefore, prepared to accept recommendations involving a moderate increase in expenditure.

11. The amelioration of the position of Inspectors is, perhaps, not so urgent as that of the lower grades, but it nevertheless demands the careful consideration of the Committee. A suggestion has been made that deserving Inspectors may be rewarded by being appointed Deputy Magistrates and Collectors. Independently of the fact that an additional difficulty would thus be introduced into the recruitment of the Subordinate Executive Service, it is, perhaps, open to question whether this measure is desirable in itself. The experiment, so far as it has been tried in Bengal, has not, it is believed, been attended with success, and several of the officers consulted object to it and think that it would be preferable to give higher promotion in the Police Service itself; doubtless the whole matter will receive due attention from the Committee.

12. The pay of constables is another topic for discussion, and in this case it will be well to see whether the same scale is appropriate to the whole Province.

13. The improvement of prosecutions is to be considered. Is this likely to be best attained by separating the appointment of Court Inspectors and other Court officers completely from the station police, so that they may be used only as prosecutors and for the Court clerical work, or by retaining the present connection and compelling the officers set apart for the Courts to pass certain examinations, or is there some other and better expedient?

14. The Committee is invited to deal with the question of recruitment of the Police of all grades below that of Assistant Superintendent. One proposal which has been made is that the Head-constables should be simply what their name implies, and that there should be a sharp line of demarcation between them and the Sub-Inspectors; further, that appointments should be made direct to Sub-Inspectorships, endeavours being made to attract well-educated men of respectable families. This would probably involve the creation of a small grade of probationers. The Committee will advise the Lieutenant-Governor

whether any, and if so what, educational tests can be applied. He will also be obliged to them if they will consider whether anything reasonable and compatible with discipline can be done to render Police service more attractive than it now is.

15. The weakness of the Magistracy both in numbers and in individual power is brought prominently to notice in these papers. It is beyond question that the number of officers available both in the Civil Service and the Subordinate Executive Service is quite inadequate to the increasing requirements of the province. Apart from this general deficiency, it is to be observed that the exigencies of the Sonthal Pergunnahs and certain other special localities require that they should generally be officered by Europeans, and it will be necessary that arrangements should be made to recruit suitable persons. In this connection the suggestion that the junior European Police officers should undergo some magisterial training will, doubtless, receive attention.

16. The Lieutenant-Governor also desires the Committee to report on the best means of supervising the work of Subordinate Magistrates; the conviction is frequently forced upon him by his own observation that at present the supervision is not generally sufficiently systematic and persistent, and he is constrained to believe that very much depends upon the strictness of the individual Commissioner or Magistrate.

17. The Lieutenant-Governor is by no means disposed to sympathize with the sweeping denunciations of the Native Magistracy which he sometimes sees. He believes that the Magistrates are very often industrious and well-meaning men, but they receive very little education of a kind specially adapted to fit them for their duties on the Bench. A Munsif will have had the advantage of watching the procedure of the Courts for some years, and thus of learning by experience, not the mere letter of the law only, but the method in which the discretionary powres allowed by the law are exercised in practice. The Deputy Magistrate has no such advantage. Often the first case which he has seen tried is the first which he has tried himself; at any rate it may be so. Again, the legal practitioners who appear before the Deputy Magistrate are of an inferior class in respect of their knowledge, both technical and general, and far from affording him the assistance which a Munsif gets from a well-educated bar, they do more harm than good in influencing the general conduct of cases. To counteract these influences, Sir Steuart Bayley is sure that what is required is the kindly but firm and frequent interposition of the superior officers. He will be glad to learn from the Committee in what way they think this object can best be attained.

18. Sir Steuart Bayley would invite the attention of the Committee to the 10th paragraph of Mr. Lyall's letter of the 28th May, which has reference to the extended use of the provisions of the law for the prevention of offences. He wishes to know whether it is possible or advisable to make rules with this object, and if so, what form these rules should take, having regard on the one hand to the protection of the public from professional criminals, and on the other to the necessity for ensuring that the law may not be abused, so as to be a powerful engine of oppression.

19. The Lieutenant-Governor has purposely abstained from putting before the Committee any series of definite questions of a nature to hamper them in their deliberation. He has little doubt that as their labours progress points, at present unforeseen, will arise; and it is possible that new solutions of some of the difficult problems before them may suggest themselves. He is anxious, therefore, that members of the Committee should regard themselves as free to consider and report on any matter which they may regard as relevant to their enquiries. He expects their report to be submitted within six months from the date of the President's deputation.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secretary to the Govt. of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE COMMISSIONERS OF THE PORT OF CHITTAGONG FOR THE YEAR 1889-90.

No. 2683 Marine.

GOVERNMENT OF BENGAL—MARINE DEPARTMENT.

RESOLUTION.

Dated Calcutta, the 26th September 1890.

READ—

The Administration Report of the Commissioners of the Port of Chittagong for the year 1889-90.

The report, which is submitted by the Commissioners of the Port of Chittagong, is the first report of their administration of the Port. Although a Port Trust was constituted in 1887-88, the Chittagong Port Commissioners' Act, 1887, not having been brought into operation, the Trust had no legal status, and the appointments and elections were subsequently cancelled. The law came into force from the 25th April 1888, and in June of that year a Trust was lawfully established. The entire management of the Port and of the Port Fund was not, however, as stated in the Resolution on the Administration Report of the Port for 1888-89, made over to the Commissioners until the 1st April 1889, and the year under review is the first in which the Act has been in full operation.

2. The management of the Pilot Service at Chittagong was transferred to the Commissioners during the year with a contribution of Rs. 1,000 per annum to their revenues to meet the charges which will be incurred by them on clerical establishment, &c., in working the Pilot Service. Permission was given to the Commissioners to deal with moveable property up to the value of Rs. 1,000. Since the close of the year, rules have been made under sections 17 and 45 of Act IV (B.C.) of 1887 (the Chittagong Port Commissioners' Act), and the scale of charges prepared under section 33 and the by-laws made under section 64 of the Act have been approved. New rules under section 6 of the Indian Ports Act, 1889, have also been made for the Port.

3. The purchase of a steam-tug for the Port, the necessity of supplying which had been urged upon the Government for some years past, was sanctioned during the year, and the Commissioners are now making arrangements for procuring the vessel. The cost of the tug will be advanced to the Commissioners by the Government.

4. The financial position of the Port Trust is satisfactory. The Port Fund opened on the 1st April 1889 with a credit balance of Rs. 67,958, being the sum made over to the Commissioners of the Port by the Accountant-General, Bengal, and it closed with a balance of Rs. 90,197 on the 31st March 1890. These figures are exclusive of a sum of Rs. 20,200 invested in Government securities. The receipts for the year amounted to Rs. 56,218, and the charges to Rs. 33,979.

5. The rice trade of the Port, a somewhat fluctuating one, again fell off during the year under review, owing, it is stated, to the exportation to Central Bengal of the rice produced in the northern districts of the Chittagong Division, but the loss was more than compensated by a considerable increase both in the quantity and the value of the jute exported, and the results of the year were, on the whole, satisfactory.

6. The following statement shows the number and tonnage of vessels which visited the Port during the year as compared with the figures of the preceding year:—

		1889-90.		1888-89.	
		Number.	Tonnage.	Number.	Tonnage.
European vessels trading with Foreign ports.	Entered	39	60,701	41	55,774
	Cleared	37	59,355	44	59,655
Native craft trading with Foreign ports	Entered	4	808	4	814
	Cleared	4	701	6	949
Vessels trading with Home ports	Entered	982	176,550	845	165,318
	Cleared	983	180,058	836	165,495

7. The number of vessels engaged in the foreign trade fell off by 11, but their tonnage exceeded that of the previous year by 4,373 tons. The decline in the number of vessels is attributed to the decline in the grain exports, while the increase of tonnage is due to the employment of larger vessels in the jute trade.

8. Of the 41 sea-going vessels which cleared for foreign ports during the year, the destination of 25 was the United Kingdom, of 3 the Mauritius, of 4 the Maldives, of 8 the United States, and of 1 Trinidad. Those for the United Kingdom and the United States carried jute; the remaining 8 rice. The number of vessels that cleared with rice in the preceding year was 22.

9. The increase in the number and tonnage of vessels entering the Port from Home ports is due chiefly to Chittagong and other native vessels engaged in the jute trade making more frequent trips between Chittagong and Naraingunge in tow of steamers belonging to the jute exporters. There was a decrease in the tonnage of steamers, although their number was in excess of that of the previous year. This was owing to the British India Steam Navigation Company having run bi-weekly steamers of small tonnage for several months of the year.

10. The subjoined table gives the statistics of the principal articles of export and import for the past eight years—

	1882-83.		1883-84.		1884-85.		1885-86.		1886-87.		1887-88.		1888-89.		1889-90.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Val
Exports.	Tons.	Rs.	Tons.	Rs.	Tons.	Rs.	Tons.	Rs.	Tons.	Rs.	Tons.	Rs.	Tons.	Rs.	Tons.	R
Grain—																
Foreign ports...	39,138	18,20,132	33,849	20,52,185	17,480	8,32,645	32,017	16,18,586	13,606	9,40,693	32,262	21,07,353	18,682	12,99,728	10,707	7,7
Home ports ...	42,177	14,49,205	31,743	18,78,575	20,372	15,08,891	31,493	25,87,430	5,343	2,05,621	26,349	11,70,274	20,111	9,87,742	*	...
Total ...	81,315	32,69,337	65,592	34,30,760	37,852	23,41,536	63,510	42,06,016	18,949	11,46,314	58,611	33,37,627	38,793	22,87,470	.....	...
Jute	57,463	73,23,050	53,228	76,69,330	53,164	61,88,602	48,951	54,70,418	65,122	81,71,095	70,824	98,40,070	64,142	95,37,959	75,285	1,36,5
Tea ... lbs.	.....	.....	... ..	.....	.....	.....	.....	.....	1,037,180	5,82,162	1,126,556	6,01,064	.....*	6,34,035	19,725†	1
Imports																
Mineral oil Gals.	197,058	77,992	294,444	1,46,287	903,358	4,01,312	289,258	1,38,867	727,277	2,00,980	1,123,724	3,26,843	187,926	92,441	.....*	2,'
Salt Tons.	11,755	1,93,472	16,393	2,74,828	22,527	3,62,802	9,878	1,57,342	12,884	2,40,302	12,690	2,20,145	18 361	4,64,386	.....*	3,'

11. The report under review does not furnish statistics of the different articles exported to Home ports, nor does it supply information regarding the quantity of salt and oils imported during the year. The Lieutenant-Governor has in past years desired that the subject of trade should be dealt with in greater detail in the report, and he hopes that the Commissioners will not overlook this important point in future.

12. The importation of mineral oil, which, for the reasons explained in the Resolution on the Administration Report of the Port for 1888-89, fell off during that year, made a considerable advance during the year under review, and there was an increase of Rs. 1,84,107 in the value of the oil imported as compared with the figures of the previous year. The falling off of Rs. 1,32,693 in the value of salt imported during the year is attributed to the unusually large importation of the year before.

13. The jetty was kept in good order, and the depth of water at its head remained unchanged. The jetty opposite the double moorings, which was erected in 1888-89, has proved convenient to the public. The buoys and moorings, with the exception of the middle bar red buoy, the spire of which is broken off, were kept in efficient condition. On account of the extension of the Eastern Sand it has become necessary to move the moorings further west, and it is proposed to relay them next cold season. The Port boats were kept in good order.

14. The Commissioners are of opinion that a penalty on the officer in charge of a vessel, the lights of which have been allowed to get out of order, would be more effective than her detention, and they suggest that some punishment, either in the shape of a fee for the inspection of the lights or a fine, may be provided to meet such cases. Under section 30 of the English Merchant Shipping Act, 1873 (36 and 37 Vic., Cap. 85), a fee is leviable for

* The figures are not given in the report.
† These figures represent the quantity exported to Foreign ports.

each visit made to a ship on the application of the owner, and for each visit made when the lights are found defective. The Indian law does not provide for the levy of a fee for the inspection of lights, and the question does not appear to have been raised when the Act was passed. The detention of a ship which is not properly provided with lights and with the means of making fog signals is necessary for the protection of life and property. The proposal to levy a fee for the inspections, as is done in the United Kingdom, will receive the consideration of the Lieutenant-Governor.

15. The health of the shipping in the port was not so good as in the year before. There were 73 admissions into the hospital against 28 in the preceding year, and the number of deaths was 6 against 2 in 1888-89. With a view to provide proper medical attendance and sufficient hospital accommodation for the shipping at the port, the levy of hospital port dues at the rate of one anna per ton on all ships manned by European crews has been sanctioned under section 49 of Act X of 1889 (the Indian Ports Act), with effect from the 1st April 1890.

16. There were four wrecks during the year against two in 1888-89. Three of these were brigs wrecked in the Megna river on the voyage from Naraingunge to Chittagong. Their jute cargoes were totally lost. The fourth wreck was that of a brig bound to Chittagong with a cargo of planks. It occurred to the south-west of Kutubdia. The vessel and her cargo were lost, but the crew was saved. Two fires occurred in the port on vessels laden with jute, one of which was totally lost.

17. The barque *Grosvenor*, which grounded on the D'Apres shoal near Chittagong, and was given up as lost, was, as stated in the Resolution on the Annual Report of the Port for 1888-89, found drifting about near the mouth of the Shabazpore river. The wreck has since been salved, the vessel and her cargo having suffered little damage.

18. The lights at Kutubdia and Norman's Point are both inefficient, and it is hoped that new lights will be provided at both places before the close of the current year.

19. The Pilotage Fund is in deficit. The year under review opened with a debit balance of Rs. 2,938, and it closed with a similar balance of Rs. 4,970. The receipts during the year amounted to Rs. 12,137, and the charges to Rs. 14,170.

20. The charges of the Port are now distributed between the Port and Pilotage Funds in accordance with the orders contained in the letter [No. 1202T.—M.] of the 28th June 1886; but having regard to the altered circumstances of the Port, the distribution of the charges will have to be examined. In order that this may be done, the Lieutenant-Governor desires that the Commissioners will furnish the details of the expenditure which was incurred in 1889-90 under the following heads and debited to the Pilotage Fund :—

Vessels and boat establishment.
Contingencies.
Stores and repairs.
Contingencies.
Petty construction and repairs.
Miscellaneous.

21. It is understood that the pay of the Harbour Master is at present charged to the Pilotage Fund. The Lieutenant-Governor desires that the Commissioners will report whether his salary should not in future be debited to the Port Fund.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 27th September, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	BURDWAN DIVN.		
1	**Burdwan** Sept. 27, '90	2·47	Weather—rainy and cool. *Aus* harvested; outturn estimated at 14 annas. The rain has done much good to *amun* and sugarcane. Price of common rice :— Srs. Burdwan ... ... 16 Culna ... ... 16 Ranigunge ... ... 16 } per rupee.
	Culna ...	1·66	
	Ranigunge ...	4·03	
2	**Bankoora** „ 27, '90	5·97	Sky overcast with rain till the morning of 27th; weather has since cleared. Copious rain during the week. Prospects of crops excellent. Common rice selling at 19 seers per rupee at Sudder and 17 seers at Bishenpore.
3	**Birbhum** „ 27, '90	5·54	The rain came in the very nick of time, and the prospects are as brilliant as possible.
	Rampore Haut ...	4·40	
4	**Midnapur** „ 27, '90	4·31	Daily rain. Prospects much improved, especially in the Contai subdivision, by the heavy rain of the week. Sowing of indigo begun. Price of cocoons in Ghatal stationary. Price of common rice :— Srs. Ch. Sudder ... ... 16 0 Ghatal ... ... 16 13 Tumlook ... ... 14 3 Contai ... ... 15 0 } per rupee.
5	**Hooghly** „ 27, '90	3·38	Weather—showery with heavy rain. The rain has improved prospects greatly. Prices of common rice :— Srs. Sudder ... ... 13 Serampore ... ... 13 Jehanabad ... ... 16 } per rupee.
	Serampore ...	1·66	
	Jehanabad ...	0·49	
	Howrah „ 27, '90	4·78	Weather—seasonable. Harvesting of *aus* and jute nearly finished. Prospects of *amun* favourable owing to recent rain. Price of coarse rice about 14 seers per rupee.
	Uluberiah ...	0·73	
	Central Districts.		
6	**24-Perghs.** Sept. 29, '90	5·48	Weather—overcast, stormy, and heavy rain. Harvesting of *aus* and jute and transplanting of *amun* finished. Prospects of standing crops continue good except in the small flooded area. Gratuitous relief is being given to the destitute sufferers at the late floods in thana Baduria. Prices stationary.
	PRESIDENCY DIVN.		
	Nuddea „ 27, '90	3·29	Weather—cool and cloudy with heavy rain. Sowing of winter crops going on. *Kalai* on chur lands in the Kushtea subdivision almost destroyed by rise of rivers and heavy rain during the week. No change in the price of rice.
7	Kushtea ...	2·42	
	Meherpore ...	3·86	
	Chuadanga ...	1·10	
	Ranaghat ...	0·78	
8	**Khoolna** „ 27, '90	2·68	Weather—rainy. The flood has nearly subsided. Prospects of *amun* in the flooded thanas bad; elsewhere very good. *Aus* harvest nearly completed; outturn about 10 annas.
	Bagirhat ...	2·45	
	Satkhira ...	1·00	
	Jessore „ 27, '90	4·01	Weather—cloudy with occasional rain, and windy. Rivers again rising slowly in the Magura and Narail subdivisions. Sowings of cold-weather crops and indigo going on, and prospects good. Enquiries about the damage done by the flood are in progress, and charitable relief is being giving in the Bongong and Jhenidah subdivisions and in parts of the Sudder subdivision.
9	Jhenidah ..	1·81	
	Magura ...	0·22	
	Narail ...	0·52	
	Bongong ...	0·65	
10	**Moorsheda bad** „ 27, '90	Figures not given.	Weather—rainy and overcast. Harvesting of *bhadoi* almost completed. The rainfall of the week has done much good to *haimanti* paddy. *Kalai* is being sown and lands prepared for *rubbi*. Charitable relief and agricultural loans are being given.
	RAJSHAHYE DIVN.		
11	**Dinagepur** „ 27, '90	3·82	Weather—cool for the time of year. A cyclonic storm on Friday (26th) night. *Prospects of crops continue favourable.* Price of rice unchanged.
	Thakurgaon ...	0·77	
12	**Rajshahye** „ 27, '90	1·66	Weather—cool and rainy. Prospects of crops at Nattore and Nowgong fair. Floods subsiding in Nowgong. Ganges rising again at Beauleah, but prospects of crops as yet not unfavourable.
	Nattore ...	2·88	
	Nowgong ...	1·11	
13	**Rungpur** „ 27, '90	3·84	Weather—overcast and sultry. Rain threatening. It is wanted for the young *amun* plants. Cold-weather crops, such as *kalai*, &c., are being sown in places. Prices abnormally high.
	Nilphamari ...	2·85	
	Gaibanda ...	4·02	
	Kurigram ...	1·84	
14	**Bogra** „ 27, '90	0·44	Weather—mornings and nights chilly. The whole week has been more or less cloudy. *Amun* is still being transplanted, and this crop and sugarcane look promising. Reaping of *aus* completed; estimated outturn 15 annas. Jute is still being cut. Common rice selling at 19 seers per rupee.
	Sherpur ...	0·61	
	Nowkhilla ...	0·15	
15	**Pubna** „ 27, '90	4·07	Weather—cool and rainy. Prospect of *amun* good in Serajgunge subdivision, but not good in Sudder subdivision. Prices stationary.
16	**Darjeeling** „ 27, '90	1·17	Weather—fair. Transplantation of winter rice at Siliguri finished, and lands are being ploughed for mustard and pulses. *Bhutta, chota marua,* and *kagni* in the hills are being harvested. *Bhadoi* paddy reaped. *Haimanti* paddy progressing favourably.
	Silliguri ...	6·82	
17	**Jalpigoree** „ 27, '90	0·80	Weather—hot and cloudy with rain on the last day of the week. About 15 annas of *haimanti* paddy transplanted. Average outturn of jute and *aus* paddy reported to be 12 annas. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—*concluded.*			
	Eastern Districts.		
Dacca Divn. 18	Dacca Sept. 27, '90	0·21	Weather—seasonable. Jute nearly harvested. *Amun* doing well. Rivers falling steadily. Fodder available. Common rice sold at from 13 to 15 seers per rupee.
Dacca Divn. 19	Furreedpur „ 27, '90	2·34	Weather—seasonable. State and prospects of *amun* rice fair. Manufacture of jute in progress. Rice selling at 14 seers per rupee in Goalundo and Madaripur subdivisions and 13 seers at head-quarters. Cattle suffering for fodder.
Dacca Divn. 20	Backergunge „ 27, '90	4·06	Weather—seasonable. State and prospects of crops good. Common rice selling at about 13 seers per rupee.
	Bhola ...	2·05	
	Perozepore ...	1·07	
Dacca Divn. 21	Mymensingh Sept. 27, '90	0·65	Weather—hot and bright, but 26th and 27th windy and rainy. *Amun* paddy thriving well. Harvesting of jute still going on. *Kalai* is being sown. Common rice sells at 13¼ seers per rupee.
Chittagong Divn. 22	Chittagong „ 27, '90	1·37	Weather—seasonable. About 15 annas of *aus* cut. *Amun* transplanted over 13 annas of land. Prospects fairly good. Prices steady.
Chittagong Divn. 23	Noakholly „ 27, '90	7·10	Weather—seasonable. Transplantation of *amun* nearly completed. Price of rice stationary.
Chittagong Divn. 24	Tipperah „ 27, '90	2·07	Weather—seasonable. Jute being cut: prices fairly good. *Amun* being transplanted extensively; prospects good. Price of rice stationary.
Chittagong Divn. 25	Chittagong Hill Tracts. Sept. 25, '90	1·90	Weather—rainy and cloudy with occasional sunshine throughout the week. Harvesting of late *jum* paddy continues. Cotton in flower. Sugarcane and late rice in low lands progressing. Common rice is being sold at 12 seers 15 chittacks per rupee.
	Hill Tipperah „ 26, '90	2·49	Weather—days hot; nights cool. Harvesting of jute continues. *Amun* thriving well. *Til* and cotton in good condition. No change in prices.
BEHAR.			
Patna Divn. 26	Patna „ 27, '90	0·72	Weather—cool and cloudy. Reaping of *bhadoi* crops nearly finished. Paddy looks well. Rain during the week very beneficial to paddy. *Rahar* and *jowar* flourishing. Prices of food-grains stationary.
	Barh ...	1·50	
	Behar ...	1·21	
	Dinapore ...	2·71	
Patna Divn. 27	Gya „ 27, '90	0·26	Weather—cloudy with drizzling rain for the last day or two. The rainfall has been very beneficial to paddy and other standing crops. Copious rain has since fallen, and prices of food-grains have decreased.
Patna Divn. 28	Shahabad „ 27, '90	4·12	Weather—much cooler. Paddy ought to be generally a very good crop. *Hathia* rains set in yesterday (26th), and there is apparently a good quantity of rain yet to come down. Prices stationary.
	Buxar ...	4·33	
	Bhabuah ...	1·76	
	Sasseram ...	1·57	
Patna Divn. 29	Durbhunga „ 27, '90	0·33	Weather—stormy and rainy in the latter part of the week. *Bhadoi* harvesting completed; outturn expected to be 10 annas all round. It has been raining since yesterday (26th), and will do immense good to the winter rice crop. Lands are being ploughed for *rubbi* sowings. Prices stationary.
	Madhubani ...	0·61	
	Somastipur ...	0·02	
Patna Divn. 30	Muzufferpur „ 27, '90	0·50	Heavy rain falling at the time of report. It appears to be general and ensures a good rice harvest. All crops on the ground doing very well. Land is being prepared for *rubbi* sowings.
	Hajipur ...	1·26	
Patna Divn. 31	Sarun „ 27, '90	0·52	Weather—seasonable. Occasional squalls. Heavy rain, which has been falling since the evening of 26th, will secure the rice where there is any, and will supply moisture for the *rubbi* which will be sown at once. Prospects very good.
	Sewan ...	5·88	
	Gopalgunge ...	2·07	
Patna Divn. 32	Chumparun „ 27, '90	3·66	Weather—rainy and squally. Good showers of rain fall during the week, benefiting the paddy crop, the prospects of which are very good indeed. Harvesting of *bhadoi* crops nearly over, and the new grains are selling in the markets. Price of *makai* falling.
	Bettiah ...	0·86	
Bhagulpore Divn. 33	Monghyr „ 27, '90	2·03	Weather—hot and clear in the beginning of week; latterly cool and cloudy. Stormy this day (27th), and rain falling at time of report. Winter rice much benefited by rain. *Rubbi* sowing commenced in places.
	Begusarai ...	0·61	
	Jamui ...	1·53	
Bhagulpore Divn. 34	Bhagulpore „ 27, '90	1·82	Weather—cloudy. Strong east wind. Raining at time of report. State and prospects of crops good. *Bhadoi* harvest over. The rain which is falling will be favourable to standing crops.
	Banka ...	0·31	
	Mudhepura ...	1·20	
	Soopool ...	3·11	
Bhagulpore Divn. 35	Purneah „ 27, '90	4·71	Weather—stormy with rain. Prospects of *aghani* rice everywhere favourable. Good rain now falling. Preparation of lands for *rubbi* crops progressing.
	Kishengunge ...	4·78	
	Arrareah ...	4·81	
Bhagulpore Divn. 36	Maldah „ 27, '90	1·84	Weather—generally cloudy and rainy. East wind prevails. Prospect of winter rice crop favourable. *Kalai* sowing and preparation of lands for *rubbi* sowings going on. A great deal of *kalai* sown in the dearah tract has been damaged by the rising of the Ganges. Price of common rice stationary.
	Chanchal ...	0·20	
	Shibgunge ...	1·46	
	Gajole ...	2·32	
Bhagulpore Divn. 37	Sonthal Perghs. „ 27, '90	1·76	Weather—rainy and cool. Good rain has fallen everywhere except at Godda and Rajmehal. Prospects of winter rice excellent, and a full crop may be expected.
	Deoghur ...	1·36	
	Godda ...	0·91	
	Jamtara ...	3·02	
	Pakour ...	3·21	
	Rajmehal ...	0·56	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Sept. 27, '90	14·03	Weather—seasonable. Reaping of *bara beali* has commenced. Recent rain has improved prospects of early *sarad* in Jajpur subdivision. Prospects generally good.
	39	Pooree „ 25, '90	11·00	Weather—gloomy. Weeding of *sarad* crop going on. *Beali* is being harvested. Miscellaneous crops doing well. Price of common rice stationary.
		Khoorda ...	3·05	
		Banpur ...	5·11	
	40	Balasore „ 27, '90	16·67	Weather—very rainy with a little wind. Much of the district is under water. It is too early as yet to estimate the effects of the flood.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Sept. 27, '90	3·33	Weather—cloudy and almost constant rain. Prospects of winter rice excellent. *Gora* paddy and *gundli* have yielded 8 to 12 annas, *marua* about 8 annas, and Indian-corn from 2 to 6 annas. Prices easier.
	42	Lohardugga „ 27, '90	5·33	Weather—seasonable. Rain daily during the week, which has much benefited the winter rice crop. *Gora* rice is being harvested. Prices steady.
		Palamow (up to 22nd Sept.)	1·16	
	43	Singbhoom Sept. 27, '90	1·99	Weather—seasonable. Cloudy; heavy falls of rain yesterday (26th). Rain has removed all fear for the winter rice crop, which is now reported to be safe everywhere. *Gora* paddy has yielded a 16-anna crop, and other *bhadoi* crops have yielded well. Only the *bera* land crops have suffered from the late drought. No change in the price of rice reported this week.
	44	Manbhoom „ 27, '90	2·39	Heavy rain with occasional breaks. The weather has been distinctly beneficial to the crops, and all anxiety is at an end so far.
		Govindpore ...	2·52	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 30th September, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 21st to 27th September 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Sept.	21st	147·8	4·9	29·650	82·9	88·3	10·4	77·9	79·8	0·975	78·5	87	SE by S, ESE and E	67	0·02	Chiefly cloudy, o, t, d, p.
,,	22nd	143·5	1·1	·688	80·7	84·7	9·0	75·7	78·3	·938	77·3	89	E and ENE ...	95	0·65	Chiefly cloudy, o, g, d, t, p.
,,	23rd	141·3	0·2	·782	79·6	82·6	5·8	76·8	77·2	·903	76·1	89	E and ESE	174	0·09	Chiefly cloudy o, g, d.
,,	24th	121·5	Nil	·799	79·1	81·2	6·2	75·0	76·7	·887	75·6	89	E and E E	115	0·2	Cloudy, o, g, d.
,,	25th	119·5	,,	·727	78·7	81·5	6·3	75·2	76·4	·882	75·4	90	E and ESE ...	106	0·16	Cloudy, o, p.
,,	26th	92·9	,,	·665	76·2	81·2	8·5	72·7	75·1	·858	74·6	95	E and ESE	124	1·86	Cloudy, o, g, p, d.
,,	27th	133·7	1·1	·676	80·8	85·5	13·7	71·8	78·0	·923	76·8	88	SSE and variable ...	163	3·41	Chiefly cloudy, o, g, d, p, lt.

	Inches.
The mean pressure of the seven days	29·712
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·717
	Hours.
The total number of hours of bright sunshine	7·3
The maximum possible number of hours of sunshine	84·4
	°
The mean temperature of the seven days	79·7
The average temperature of the corresponding period for 24 years, S.-G.'s Office	83·0
The extreme variation of temperature	16·5
The maximum temperature	88·3
	Miles.
The highest velocity of the wind in one hour	12
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	90
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	86
	Inches.
The total fall of rain from 21st to 27th September 1890	6·21
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	2·19
The total fall from 1st January to 27th September 1890	48·96
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	58·14

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; t, thunder; d, drizzling rain; p, passing temporary showers; g, gloomy; ⌓, dew.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 29th September 1890.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	Station Observations.														
			Air Pressure.			Wind.		Temperature.									
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree ...	29·603	29·705	—	?	247	87·7	20th Sep.	76·0	24th Sep.	85·0	78·0	81·5	—	80·1
		Gopalpore ..	29·673	29·695	—·075	Variable	243	87·2	21, 22 & 26 Sep.	75·8	23rd ,,	85·5	77·7	81·6	−2·2	81·0
		False Point ...	29·705	29·727	—·039	South-easterly.	205	87·4	20, 21 ,,	73·6	24th ,,	83·9	76·0	80·0	−3·2	80·2
	Cuttack	Cuttack ...	29·643	29·725	—·032	Easterly	53	90·9	21st ,,	74·8	26th ,,	86·0	76·8	81·4	−2·2	80·2
	Balasore	Balasore ...	29·685	29·744	—·017	Calm & NNE	91	88·4	22nd ,,	72·8	25th ,,	83·8	76·3	80·1	−2·3	78·5
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·741	29·768	0	SE, NE	298	89·7	20, 22 ,,	75·0	25 & 26 ,,	86·0	77·4	81·7	−2·0	78·9
	Midnapore	Midnapore ...	29·615	29·767	—·008	NE	217·9	103·4?	21st ,,	69·2?	21st ,,	88·0	74·3	81·1	−1·8	77·7
	24-Pergunnahs ... ... / Howrah ... ... / Hooghly	Calcutta ...	29·758	29·780	+·013	ESE	89	88·5	22nd ,,	74·7	26th ,,	84·7	76·2	80·5	−2·1	79·6
	Burdwan	Burdwan ..	29·692	29·794	+·018	E	101	91·1	20th ,,	75·4	24th ,,	87·1	77·0	82·0	−2·1	79·0
	Bankoora	Bankoora ...	29·453	29·756	+·004	E	146	90·1	21st ,,	73·1	26th ,,	84·9	75·4	80·2	−2·4	78·0
	Beerbhoom ... ... / West Burdwan	Raneegunge...	29·445	29·782	+·021	E	101·8	92·0	21st ,,	74·4	25th ,,	86·4	75·9	81·2	−1·8	78·3
	Moorshedabad	Berhampore...	29·734	29·802	+·026	E	103	89·6	21st ,,	73·3	24th ,,	86·5	75·4	81·0	−2·7	78·2
	Nuddea	Krishnaghur..	29·746	29·795	+·033	South-easterly.	139·4	90·3	21 & 22 ,,	73·8	24th ,,	87·8	75·8	81·8	−1·1	80·4
	Jessore ... ... / Khoolna	Jessore ...	29·770	29·804	+·013	SE	106	90·7	21st ,,	75·4	23rd ,,	86·0	77·3	82·0	−1·8	79·9
East Bengal.	Chittagong	Chittagong ..	29·746	29·837	+·012	SE	73	87·7	22nd ,,	73·7	23rd ,,	85·8	77·2	81·5	+0·1	79·3
	Chittagong Hill Tracts	Demagiri ...	Observations not received.													
	Backergunge	Barrisal ..	29·786	29·798	+·016	SE	64	88·3	21st Sep.	73·9	26th ,,	84·8?	76·7	80·8?	−0·8?	79·5
	Noakholly	Noakholly ...	29·795	29·839	+·043	SE	117·2	86·5	22nd ,,	73·8	23 & 24 ,,	84·7	75·3	80·0	−1·2	79·9
	Furreedpore	Furreedpore...	29·787	29·827	+·044	SE	110	88·0	20th ,,	73·9	26th ,,	85·6	77·6	81·6	−1·1	80·3
	Dacca	Dacca ...	29·790	29·813	+·023	ESE	125	89·6	23rd ,,	75·7	24th ,,	87·7	77·8	82·8	−0·8	81·1
	Commillah	Commillah ..	29·801	29·837	+·037	SE	72·1	88·9	22nd ,,	72·8	25th ,,	86·5	74·7	80·6	−1·8	79·3
	Mymensingh	Mymensingh	29·773	29·832	+·035	ENE	87	87·2	26th ,,	73·6	24th ,,	85·1	75·4	80·3	−2·4	79·2
North Bengal.	Bogra	Bogra ..	29·743	29·807	+·053	E	72	88·8	20th ,,	74·1	23, 24 ,,	86·4	76·3	81·4	−1·0	80·0
	Pubna	Serajgunge ..	29·775	29·822	+·042	E	57·6	87·1	26th ,,	75·2	24th ,,	85·3	77·2	81·3	−1·0	80·1
	Rajshahye	Rampore Beauleah.	29·738	29·809	+·046	South-easterly.	87·8	88·8	20 & 21 ,,	75·1	25th ,,	86·4	76·7	81·6	−1·1	80·4
	Maldah	Maldah ...	29·781	29·814	+·111	SE	81	92·3	21st ,,	74·7	23rd ,,	88·0	77·2	82·6	−1·0	80·5
	Dinagepore	Dinagepore ..	29·703	29·824	+·030	E	57	87·6	20, 26 ,,	73·1	23rd ,,	83·5	75·7	80·6	−2·4	79·1
	Rungpore	Rungpore ..	29·721	29·847	+·029	Calm	42	88·8	25 & 26 ,,	72·7	24th ,,	86·9	76·0	81·5	−0·7	78·8
	Julpigoree ... ... / Cooch Behar	Julpigoree ...	29·550	29·842	+·028	?	265	87·4	23—26 ,,	71·1	24, 26 ,,	84·9	73·2	79·1	−1·5	77·1
	Darjeeling Hill Tracts ...	Darjeeling ..	22·995	—	—·020	Easterly	108	63·6	20, 25 ,,	50·6	24, 25 ,,	61·9	53·1	57·5	−2·0	57·4
North Behar.	Purneah ... ... / North Bhagulpore ...	Purneah ...	29·692	29·820	+·045	E	39	87·2	20, 26 ,,	73·9	21st ,,	85·8	75·4	80·6	−2·7	79·7
	Mozufferpore	Mozufferpore	29·610	29·792	—	ESE & E	196	91·8	20th ,,	75·2	25th ,,	87·3	77·9	82·6	—	79·6
	Durbhunga	Durbhunga ...	29·646	29·815	+·038	ESE	154	91·9	20th ,,	74·5	24th ,,	87·8	76·1	81·9	−1·6	80·0
	Chumparun	Motihari ...	29·589	29·820	+·058	ENE	199	93·2	20th ,,	72·8	22nd ,,	87·1	75·1	81·1	−1·4	78·8
	Sarun	Chupra ...	29·574	29·769	+·015	E	186·8	92·3	20th ,,	72·2	23rd ,,	87·7	76·9	82·3	−0·8	80·5
South Behar.	Shahabad	Dehree ..	29·391	29·749	—·019	Calm & E	172·8	93·3	21st ,,	70·5	26th ,,	88·4	75·7	82·1	−0·4	79·4
		Buxar ...	29·516	29·761	—·003	Variable	207·6	91·9	20th ,,	73·8	22nd ,,	86·3	76·1	8·2	−1·6	79·1
		Arrah ...	29·506	29·763	+·012	E	10·9	91·9	20th ,,	74·6	25th ,,	88·1	76·7	82·4	−0·8	80·8
	Gya	Gya ...	29·376	29·757	—·000	E	130	93·4	21st ,,	74·8	24 & 26 ,,	89·7	76·6	83·2	−1·3	80·5
	Patna	Bankipore ...	29·596	29·782	+·011	E	208	91·9	21st ,,	75·7	25, 26 ,,	87·5	77·8	82·7	−2·2	81·4
	South Bhagulpore ... / Monghyr	Bhagulpore ...	29·622	29·786	+·030	E	73·1	90·2	21st ,,	74·0	25th ,,	86·7	76·3	81·5	−1·8	79·1
Chutia Nagpur.	Sonthal Pergunnahs ..	Doomka ...	29·290	29·794	+·033	E	205·6	89·1	21st ,,	73·7	24, 25 ,,	85·6	74·9	80·2	−2·0	77·8
	Hazaribagh	Hazaribagh ..	27·748	29·773	—·017	ESE	281	85·9	22nd ,,	69·2	25th ,,	81·1	70·6	75·9	−2·5	73·4
	Lohardugga ... ... / Manbhoom	Ranchee ...	27·623	29·765	—·019	E	196·2	83·5	20, 22 ,,	67·4	25th ,,	79·6	69·3	74·5	−2·4	72·8
	Singbhoom	Chyebassa ...	28·974	29·746	—·008	NNE	67·5	89·4	22nd ,,	71·2	25th ,,	84·8	74·4	79·6	−2·0	76·4
Assam.	Assam	Sibsagar ...	29·536?	29·905?	+·072?	NE		90·1	25th ,,	67·4	23rd ,,	86·2	72·2	79·2	−3·6	76·4
		Dhubri ...	29·730	29·840	+·015	NE	144	86·2	26th ,,	73·3	24th ,,	82·8	74·9	78·9	−1·5	76·7
		Silchar ...	29·757	29·845	+·025	Calm		91·5	25th ,,	67·3	24th ,,	87·5	71·5	79·5	−3·6	77·1

* Means of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past ten years. The number of stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 26th of September 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK. Mean for district.	OF WEEK. Normal mean.	DISTRICT OBSERVATIONS. RAINFALL. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
90	9·3	11·08		2·01		9·28			45·23			3·0	Pooree ..	Pooree	Orissa.
90	5·4	1·65											Gopalpore ...		
91	0·3	9·63											False Point ..		
85	8·6	5·68	9·06	2·02	15·45	8·48	+6·97	52·72	43·19	+9·53	5·4	3·0	Cuttack ..	Cuttack	
92	7·7	18·39	11·23	2·43	16·20	9·65	+6·55	48·93	45·05	+3·88	6·2	3·1	Balasore ..	Balasore	
94	9·4	9·15	8·55	2·02	11·04	10·24	+0·80	44·99	52·02	−7·03	6·3	3·0	Saugor Island .	South-West Midnapore / South 24-Pergunnahs	South-West Bengal.
83	5·7	5·51	4·94	2·09	6·67	7·46	−0·79	41·41	45·60	−4·19	6·7	2·8	Midnapore .	Midnapore	
89	8·7	1·00	1·60	2·18	3·81	7·86	−4·05	41·09	45·83	−4·74	4·6	3·3	Calcutta ...	24-Pergunnahs... ... / Howrah ... ... / Hooghly	
89	9·4	2·47	3·09	1·94	8·24	7 03	+1·21	52·42	41·20	+11·22	5·7	3·2	Burdwan ...	Burdwan	
93	7·9	4·50	4·23	1·68	6·45	7·53	−1 08	44·17	47·17	−3·00	5·3	3·0	Bankoora ...	Bankoora	
90	8·4	4·03	4·00	2·40	5·99	9·04	−3·05	51 21	47·13	+4·08	5·3	3·0	Raneegunge ...	Beerbhoom .. ... / West Burdwan ...	
93	0·1	2·31	3·01	2·53	4·88	9·54	−4·66	47·80	44·56	+3·24	5·0	3·2	Berhampore ..	Moorshedabad ...	
86	8·3	3·40	2·51	2·34	5·14	7·83	−2·69	41·30	43·32	−2·02	4·4	3·1	Krishnaghur ...	Nuddea	
92	8·7	3·79	1·78	2·31	3·79	8·17	−4·38	44·08	46·99	−2 91	4·0	3·3	Jessore ...	Jessore ... ... / Khoolna	
87	5·7	1·39		3·32		13·17			102·08			3·8	Chittagong ...	Chittagong	East Bengal.
				3·20		11·04			69·17			3·6	Demagiri ...	Chittagong Hill Tracts	
80	7·4	3·13	2·99	3·14	5·97	10·69	−4·72	60·16	67·40	−7·24	4 5	3 7	Barrisal ...	Backergunge	
86	2·0	5·66	3 66	4·05	10·10	15 51	−5·41	88·12	95·52	−7·40	3·0	3·8	Noakholly ...	Noakholly	
88	6 6	2·29	1·77	2·02	3·61	7·97	−4·36	37 41	49·01	−11·60	4·7	3·1	Furreedpore ...	Furreedpore	
85	7·1	0·17	0·97	1·85	3·19	9·24	−6·05	52·35	53·37	−1·02	1·8	3·0	Dacca ...	Dacca	
86	3·1	2·23	1·75	2·45	5·08	10·09	−5·01	53·50	60·56	−7·06	3·2	3·1	Commillah ...	Tipporah	
91	5·7	0·79	0·81	3·22	5·62	11·28	−5·66	62·69	60·94	+1·75	1·6	3·4	Mymensingh ...	Mymensingh	
85	5·0	0·38	0·59	2·81	7·06	8·95	−1·29	53·91	50·80	+3·11	3·0	3 3	Bogra ...	Bogra	North Bengal.
88	6·6	0·91	2·39	2·53	5·87	9·39	−3·52	42·26	46·90	−4·64	3·5	3·7	Serajgunge ...	Pubna	
85	3·6	1·72	1·89	3·28	5·21	11·02	−5·81	54·96	48·05	+6·91	3·3	3·7	Rampore Beauleah	Rajshahye	
87	3·4	1·84	1·02	2·60	4·25	10·28	−6·03	45·83	48·94	−3·11	2 0	3·4	Maldah ...	Maldah	
88	5·0	0·85	0·87	2·49	4·53	10·63	−6·09	57·42	51·88	+5·54	1·4	3·8	Dinagepore ...	Dinagepore	
88	2 3	2·74	2·81	3·55	9·75	12·04	−2·29	71·46	67·09	+4·37	3·5	3·6	Rungpore ...	Rungpore	
94?	2·	3·10	4·37	5·59	19·75	19·68	+0·07	134·69	102·59	+32·10	2·6	4·2	Julpigoree ...	Julpigoree ... ... / Cooch Behar	
86	7·0	1·17	3·28	4·32	16·99	17·24	−0·25	145·76	111·75	+34·01	3·3	4·3	Darjeeling ...	Darjeeling Hill Tracts	
87	6·6	2·21	3·23	2·94	7·70	11·35	−3·65	67·99	53·32	+14·67	1·4	2·6	Purneah ...	Purneah ... ... / North Bhagulpore ...	North Behar.
89	6·9	0·74	1·38	2·46	2·89	7 82	−4·93	46·49	33·30	+8·19	3 3	2·0	Mozufferpore ...	Mozufferpore	
86	6·7	0·33	0·51	1·85	2·95	8·03	−5·08	51·51	39·69	+11·82	2·0	2·3	Durbhunga ...	Durbhunga	
87	7·7	3·36	2·26	2·40	5·39	7·62	−2·23	59·05	41·22	+17·83	2·0	2·5	Motihari ...	Chumparun	
89	4·1	0·52	2·86	1·91	5·68	6·65	−0·97	49·02	36·67	+12·95	3·7	2·0	Chupra ...	Sarun	
87	6·9	1·65											Dehree ...	Shahabad	South Behar.
89	7·7	4·54	2·29	1·63	4·19	6·62	−2·43	44·90	35·28	+9·71	4·2	2·2	Buxar ... / Arrah ..		
86	4·4	1·96											Gya ...	Gya	
82	6·6	0·26	0·63	1·57	1·47	6·11	−4·64	53·32	37·05	+16·27	3·0	2·0	Baukipore ...	Patna	
83	9·3	0·72	1·61	1·71	3·84	6·14	−2·30	43·03	36·27	+6·76	3·3	2·0	Bhagulpore ...	South Bhagulpore ... / Monghyr	
89	8·0	0·32	1·16	1·88	2·28	7·25	−4·97	40·22	38·59	+7 63	3·8	2·3	Doomka ...	Sonthal Pergunnahs...	Chutia Nagpur.
89	4·1	1·76	1·86	2·18	3·53	9·53	−6·00	49·41	45·74	+3·67	4·0	2·8	Hazaribagh ...	Hazaribagh	
92	10·0	3·21	3·13	2·99	5·08	8·38	−3·30	44·94	45·38	−0·44	4·6	2·8	} Ranchi ...	Lohardugga ... ... / Manbhoom	
89	8·8	2·65	2·15 / 2·45	2·04 / 1·74	4·40 / 4·24	8·55 / 7·14	−4·15 / −2·90	43·38 / 37·38	43·06 / 42·29	−0·68 / −4·90	4·8 / 5·0	2·8 / 2·6			
													Chyebassa ...	Singbhoom	
90	9·0	1·68	1·99	1·39	5·56	7·56	−2·00	30·59	46·57	−15·98	6·9	3·3	Sibsagar ...		Assam.
93	6·0	5·76											Dhubri	Assam	
89	5·4	1·77											Silchar		
92	5·9	1·49													

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.

denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means

ten years. The means of the district are the numerical average of the rainfall, returns received in the districts, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of September 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 20th September.	Sunday, 21st September.	Monday, 22nd September.	Tuesday, 23rd September.	Wednesday, 24th September.	Thursday, 25th September.	Friday, 26th September.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	0·53	.....	0·09	0·68	6·18	4·20	0·22	6	11·90	15·48	9·32	54·07	38·33
		Khurdah ...	0·07	0·13	0·10	0·68	1·75	1 54	5	7	4·92	13·23	9·47	50·22	46·32
		Banpur ...	0·05	0·21	1·22	0·68	1·40	0·78					8·27		39·07
		False Point ...	0·12	0·13	1 46	0·49	3·19	2·65	1·59	7	9·63	13·11	10·05	49·10	49·21
		Gop ...	0·19	0·58	0·12	3·30	3 50	2 11					?		?
		Satpara ...	0·75	0 15	0·70	0·56							?		?
		Pipli ...	0·13		0·57	2·56	1·13						?		?
	Cuttack ...	Jagatsingpore	0·65	0·30	0·70	1·00	4·26	1·60	0·60	7	9·05	44·33	7·67	43 62	37·49
		Banki ...	.....	.....	2·58	0·74	2·20	1·12	0·48	5	7·12	13 06	8·21	54·34	40·86
		Cuttack ...	.....	... ..	1·40	2·10	3·60	4·51	2·40	5	14·03	20·89	9·54	71·53	48·35
		Kendrapara ...	... ..	.....	0·08	0·35	4·05	1·72	1 44	5	7·04	14·35	8·19	43·05	43·81
		Jajpore ...	.....	.....	0 90	1·70	1·50	2·59	0·75	5	7·44	13·68	8·81	45·04	45·27
		Dharmsala ...	0·60	0·73	2·90	2·75	1·00	1·35					?		?
		Salipore ...	0·32	.....	1·47	2·60	1·72	1·63					?		?
	Balasore ...	Chandbali ...	0·15	0·73	0·10	0·32	2·45	3 10	0·50	7	7·35	12·39	9·38	41·76	42·67
		Bhuddruck ...	.....	.....	0·50	0·60	1·90	1·70	0·14	5	4·84	13·84	9·41	45·40	44·09
		Soroh ...	.....	0·03	1·40	3·50	1·55	2 30	0·15	6	8·03	14·07	9·56	48·74	42·78
		Balasore ..	.....	0·30	1·34	2 48	3·54	4·82	4·19	6	16·07	20·36	10·19	54·17	48·09
		Jellasore ..	.....	0·15	2·10	1·50	4·70	3·57	3·20	6	14·59	18·01	9·02	51·22	45·29
		Baripodah ...	0·08	1·13	0·56	2·05	7·72	1·56	1·90	7	15·00.	17·54	9·70	52·11	47·14
South-West Bengal.	Midnapore ...	Contai ...	0·03	0·19	1·28	1·19	2·30	2·41	3·13	7	10·53	13·09	10·10	45·65	50·41
		Sangor Island	... ...	0·30	0·10	1 57	2·90	0·83	3·45	6	9 15	11·28	10·63	44·61	54·75
		Tumlook ...	0·40	0·10	0·10	0·30	1·80	0·70	2·10	7	5·50	7·40	8·02	46·00	45·49
		Midnapore ...	0·10	0·32	0·40	0·52	1·66	1·00	0·31	7	4·31	6 28	6·49	40·85	42·23
		Ghattal ...	0·41	... ..	1 04	1 31	1·10	0·35	0·80	6	5 01	6·32	7·87	39·00	40·09
		Kutrahaty ...	0·41	0·06	0·41	1·14	2·26	1·04	0 40	7	5·72	7·08	?	34·01	?
		Garbetta ...	.....	0·43	.....	0·44	1·48	0·07	1·32	5	3·74	4·48	?	38·11	?
	24-Pergunnahs	Diamond Harbour ...	.....	0·12	1·22	0·72	1·32	0·06	2·54	6	5·98	8·68	10·01	46·86	50·96
		Canning Town	0·09	0·10	0·74	0 84	0·45	.....	0·75	6	2 47	5·20	?	50·68	?
		Alipore Jail ...	0·02	0·02	... .	0·57	0·10	0·01	0·18	6	0·99	4·34	0·14	44·15	49·05
		Barrackpore...	.....	.... .	0·60	0·52	.....	0·05	... ..	3	1·17	1·99	6·92	35·38	43·99
		Dum-Dum ...	.....	.....	... .	0·08	0·12	.. ...	0 26	3	1·36	5·05	8·34	36 99	46·76
		Baraset ...	.....	.....	0·48	0·22	0·16	0·22	0·70	5	1·78	5·43	8·40	39·41	43·56
		Buseerhat ...	.....	.....	0·12	.....	0·26	... .	1·19	3	1·57	4·60	7·89	47·07	48·45
	Howrah ...	Howrah ...	.....	0...	0·46	0·21	0·08	..	0·03	5	1·88	2·70	7·87	37·03	44·01
		Mohesreka ...	.....	0·13	0·11	0·32	0 15	0·02	1·67	6	2·40	4·16	7·85	48·44	46·56
		(*Onlooking*)													
	Hooghly ..	Serampore ...	.....	.....	0·71	0·80	0·06	.....	0·25	4	1·91	3·23	7·25	38·56	44·32
		Hooghly ...	0·30	... ..	0·88	0·30	0·83	0·06	0·09	6	2·46	5·09	6·68	38·15	42·62
		Jehanabad ...	.....	.... .	0·03	0·24	0·21	0·01	0·10	5	0 59	1·39	8·28	45·37	48 96
	Burdwan ...	Culna ...	0·10	.....	0·43	.....	0·50	.....	0·63	4	1·66	7·21	6·28	46·44	39·00
		Burdwan ...	0·08	0·12	1·12	0·40	0·34	0·10	0·31	7	2·47	7·95	7·13	58·42	42·32
		Cutwa ...	... .	0·33	1·90	0·87	0 04	1·30	2·50	6	6·94	9·54	7·69	52·37	42·27
		Raneegunge ...	0·02	.....	1·08	2 13	0·53	0·05	0·22	6	4·03	5·91	0·74	49·49	44·52
		Mankur ...	.....	.....	0·07	1·50	0 38	0·11	0·05	5	2·11	2·96	?	42·49	?
	Bankoora ..	Bankoora ...	.....	.. ..	1·61	1·28	1·22	0·08	0·40	5	4·49	8·53	7·17	50·25	45·68
		Bishenpore ...	.....	0·85	0·31	0·19	1·89	0·24	1·89	6	5·17	6·38	8·38	42·77	47·89
		Maliara ...	.....	. ....	0·20	3·37	0·23	0·22	0·11	5	4·13	5·46	6·13	51·14	44·05
		Khatra ...	.....	.....	0·12	1·10	0·85	0·56	0·51	5	3·14	5·45	8·47	32 43	51·06
		Indas ...	... ..	.8...	0·06	0·85	0·41	0·45	0·04	5	1·81	3·05	?	50 39	?
		Kotalpore ...	.....	... ..	0·05	0·38	1·00	0·12	0·73	5	2·28	3·88	?	57 51	?
		Anda ...	.....	0·41	.....	1·00	2·05	1·00	0·80	5	5·26	8·54	?	43·27	?
		Gangajalghati	0·23	.....	..	2·98	1·69	... ..	0 72	4	5·62	8·56	?	57·95	?
		Kaipore ...	.....	0·58	0·55	0·82	1·35	0·45	0·12	6	3·87	5·85	?	43·80	?
		Somamukhi ...	0·31	.....	0·28	3·28	0·72	0·35	0·52	6	5·46	6·45	?	45·66	?
	Beerbhoom ...	Bh. Soory ...	... ..	.....	0·05	1·19	1·68	0·09	0·24	5	3·25	4·01	9·61	51·02	48·56
		Hetampore ...	.....	0·30	.....	2·00	0·84	0·18	0·32	5	3·64	7·08	9 55	46·62	49·42
		Rampore Haut	.....	.....	2·42	1·15	0·33	0·50	0·69	5	5·09	6·39	10·20	57 78	45·94
		Holpore ...	.....	.....	1·28	2·32	0·46	... ..	0·29	4	4·35	6·17	?	48 12	?
		Murarai ...	.....	.....	2·35	.....	1·10	0·45	1·60	4	5·50	6·15	?	48·50	?
	Nuddea ..	Kanaghat ..	0·06	.....	0·13	0·17	0·42	.....	0·24	5	1·02	5·96	6·65	42·90	41·85
		Kishnaghur ...	.....	.....	.. ...	2·46	0·69	. ....	0·14	3	3·29	6·78	7·39	48·44	40·28
		Chooadanga ...	.....	... ..	0·05	0·65	0·28	0·12	0·07	5	1·17	2·35	8 82	33·08	44·75
		Meherpore ...	.....	0·52	.....	2·46	... ..	0·88	0·67	4	4·53	5·08	7·23	41·63	42·32
		Koushtea ...	.....	.....	0·40	1·85	0·08	0·09	0·14	5	2·50	5·54	9·08	40·49	47·31
	Khoolna ..	Satkhira ..	0·04	0·01	0·01	0·16	0·69	0·09	0·45	7	1·45	4·13	7·89	47·40	46·98
		Bagirhat ...	.....	.....	.. .	0·13	1·72	0·60	0·38	4	2·83	4·99	9·22	55·49	53·88
		Khoolna ...	.....	.....	0·60	1·05	0·87	.....	0 21	4	2·23	4·43	8 93	44·44	48·26
		Nakipur ...	.....	0·48	.....	0·68	0·67	0·34	2 48	5	4·65	7·84	?	58·71	?
		Rampal ...	.....	0·48	.....	0·43	2·83	0·51	1·02	5	5·27	7·61	?	58·47	?
	Jessore ...	Narail ...	.....	.....	0·09	0·33	0·07	0·03	0·13	5	0·65	1·04	6·74	38·65	40·57
		Jessore ...	.....	.....	0·60	2·30	0·18	.....	0·71	4	3 79	4·62	7·96	43·26	47·97
		Jhenidah ...	.....	.....	1·55	0 26	.....	.....	0·09	3	1·90	3·97	8·41	45·05	47·01
		Magoorah ...	.....	.....	0·05	0·17	. ....	.....	.....	2	0·22	1·87	7·65	37·44	45·68
		Bongong ...	.....	... ..	0·20	.....	0·43	.....	0·35	3	1·00	4·81	8·48	35·11	45·36
	Moorshedabad	Kandi ...	.....	.....	2·40	1·05	1·05	0·17	0·52	5	5·19	5·60	8·87	52·21	44·46
		Berhampore...	.....	0·03	0·69	0·60	0·52	0·13	0 34	6	2·31	3·54	9·74	46 63	44·71
		Lalbagh ...	.....	.....	1·09	0·65	0·68	0·45	0·22	5	3·09	4·80	10·04	51·22	44·08
		Azimgunge ...	.....	.....	0·70	1·25	.....	0·65	0·60	4	3·20	6·25	8·96	47·74	44·33
		Jungipore ...	.....	... ..	0·55	0·31	0·56	0·50	0·30	5	2·12	3·71	9 99	39·05	44·35
		Lalgola ...	.....	.....	0·62	0·15	0·44	0·42	0·50	5	2·14	5·38	9·07	50·00	45·00
		Jiagunge ...											?		?
		Amirgunj ...	.....	.....	.....	0·90	0·17	0·89	0·11	4	2·07	6·39	?	48·49	?
		Patkabari ...	0·50	0·96	1·60	0·20	.....	0·50	1·00	6	4·70		?		?
East Bengal	Chittagong ...	Cox's Bazar ...	0·13	.....	.....	0·25	0·35	.....	.....	3	0·71	11·06	14·12	123·93	131·33
		Chittagong ...	0·64	.....	0·16	0·55	0·20						12·22		84·03
		Kutubdia ...	.....	0·67									?		?
		Sandoway ...	.....	0·53	.....	1·15	0·26						?		?
	Chittagong Hill Tracts	Rangmati ...	0·53	.....	1·31	0·06	.....	.....	0·30	4	2·20	7·65	11·11	65·01	72·03
		Kuma ...											10·98		66·21
	Backergunge	Patuakhally...	.....	.....	0·60	0·50	2·50	0·25	0·35	5	4·20	8·06	12·11	69·30	77·41
		Perozepore ...	.....	.....	0·22	0·18	1 12	0·45	0·10	5	2·07	6·36	9·99	54·93	60·74
		Burrisal ...	.....	.....	0·19	1·60	0·70	.....	0·93	4	3·41	6·53	10·35	56·09	58·09
		Snota ...	.....	.....	0·58	0·57	0·90	.....	0·20	6	2·25	4·81	10·29	57·83	

ıtement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of September 1890 —contd.

ɔrological Division.	District.	Station.	Rainfall. Saturday, 20th September.	Sunday, 21st September.	Monday, 22nd September.	Tuesday, 23rd September.	Wednesday, 24th September.	Thursday, 25th September.	Friday, 26th September.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
T BENGAL concld.		*Gourasddi* ...	0·32	.....	.....	2·65	0·56	.....	0·25	4	3·78	4·50	?	37·17	?
		Bauphal ...	.....	.....	.....	2·00	2·40	.....	.....	2	4·40	8 62	?	64·32	?
	Noakholly ...	Noakholly ...	0·02	3·73	. ....	1·24	0·58	.....	.....	4	5·57	11·38	16·47	80·71	90·49
		Feuny ...	1·50	.....	.....	0·25	.....	.....	.....	2	1·75	8·81	14·53	95·52	95·85
		Harishpore ...	1·50										?		?
		Ramganj ...	.....	.....	.....	0·40	0·30	.....	.....	2	0·70	3·20	?	59·71	?
	Furreedpore	Madaripore ...	...	.....	0·50	.....	.....	0·32	0·38	3	1·20	1·85	7·89	32·07	40·72
		Furreedpore ...	0·70	0·17	0·25	0·06	0·12	0·75	0·05	7	2·10	3·79	8·64	41·82	51·15
		Goalundo ...	.....	.....	.....	0·59	0·31	0·51	0·59	4	2·00	5·17	7·37	37·41	46·11
	Dacca ...	Munshigunge	.....	0·50	.....	0·60	.....	.....	.....	2	1·10	3·18	10·81	53·36	61·49
		Dacca ...	.....	.....	.....	0·21	.....	.....	.....	1	0·21	1·84	9·21	48·38	52·76
		Naraingunge	.....	.....	.....	0·54	... ...	.....	... ...	1	0·54	1·81	9·82	57·27	54·94
		Manickgunge	.....	... ...	.....	1·35	0·45	.....	0·22	3	2·02	5·90	7·14	51·51	44·05
		Joydebpore ...	0·10	0·01	0·12	0·28	0·21	.....	.....	5	0·72	6·57	?	58·16	?
	Hill Tipperah	Agartola ...	0·08	.....	.....	1·86	0·45	.....	0·10	4	2·40	7·87	9·44	55·78	53 38
	Tipperah ...	Comilla ...	0·01	.....	0·07	0·96	.....	0·70	.....	4	2·34	4·57	9 75	58 76	68·07
		Chandpore ...	.....	.....	0·20	0·30	0·87	.....	0·20	4	1·57	3·92	10·47	51·06	66·22
		Brahmunberia	.....	.....	0·60	.....	.....	.....	.....	1	0·60	4·12	10·71	48·47	54·60
		Ramchandrapore ...	0·14	.....	1·06	0·74	.A....	.....	.....	3	1·94	5·66	?	67·45	?
		Nasirnagar ...	0·40										?		?
		Daudkandi ...	0·50	.....	.....	0·75	.....	0·26	.....	3	1·51	2·75	?	25·08	?
		Kasba ...	.....	.....	0·5								?		?
		Laksham ...	.....	.....	.....	.....	.....	.....	.....	.....	Nil	1·98	?	63·68	?
	Mymensingh...	Kishoregunge	0·06	.....	0·05	0·90	... ..	.....	.....	3	1·01	6·05	11·55	61·74	61·85
		Atia (*Tangail*)	.....	.....	... ..	... ..	.....	... ..	.....	.....	Nil	1·23	8·69	43·22	44·59
		Mymensingh	0·40	0·25	.....	.....	.....	... .	.....	2	0·65	6·97	12·25	66·23	65·88
		Jamalpore ...	0·99	.....	.....	.....	.....	... .	.....	1	0·99	4·73	12·13	59·50	57·27
		Netrokona ...	.....	1·22	0·17	3	.....	.....	.....	2	1·39	8·20	11·84	83·22	71·75
		Subornakhally	1·40	.....	1·10	0·2	0·48	.....	.....	4	3·20	7·31	?	41·48	?
		Durgapore ...	1 81										?		?
		ShereporeTown	0·69	0·12	0·37	.....	.....	.....	.....	3	1·18	4·75	?	50·10	?
		Dewangany ...													
NORTH BENGAL.	Pubna ...	Pubna ...	.....	.....	1·04	0·68	0·46	1·54	0·14	5	3·86	5·52	9·86	38·41	47·31
		Serajgunge ...	0·13	.....	.....	0·79	.....	.....	... ..	2	0·92	6·43	8·91	46·03	46·45
	Bogra ...	Sherepore ...	.....	0·07	.....	0·27	.....	0·27	.....	3	0·61	8·09	9·16	57·50	51·08
		Nowhilla ...	0·03	.....	.....	0·12	.....	.....	0·12	3	0·27	5·26	7·77	50·00	46 65
		Bogra ...	.....	.....	0·38	0·03	.....	0·03	.....	3	0·44	5·13	9·30	53 87	54·72
		Panchbibi ...	.....	0·70	0·28	0·05	.....	.....	.....	3	1·03	4·13	9·59	54·07	49·85
	Rajshahye ...	Beauleah ...	.....	.....	0·88	0·46	0·01	0·31	.....	4	1·66	4·54	10·20	54·63	46·77
		Nattore ...	.....	.....	.....	1·08	1·80	.....	0·03	3	2 91	7·09	10·40	64·16	48·31
		Naogaon ...	.....	0·65	0·03	0·43	... ..	... ..	... ..	3	1·11	3·77	12·28	46·44	49·07
		Laipore ...	.....	0·50	0·21	0·52	0·42	0·02	0·54	6	2·21	5·18	?	37·57	?
		Manda ...	... ..	.....	.....	0·10	.....	.....	1·70	2	1·80	2·70	?	31·22	?
	Maldah ...	Maldah ...	.....	.....	.....	1·35	0·45	0·04	.....	3	1·84	4·67	10·61	47·99	45·55
		Chanchal ...	.....	.....	0·20	.....	.....	.....	.....	1	0·20	3·82	9·96	45·64	52·30
		Gajole ...	.....	.....	0·90	1·42	.....	.....	.....	2	2·32	7·05	?	62·97	?
		Sibganj ...	.....	.....	0·11	1·30	0·05	0·02	.....	4	1·48	2·25	?	43·91	?
	Dinagepore ...	Mohadebpore	.....	... ..	0·30	... ..	.....	.....	.....	1	0·30	1·42	9·63	42·83	51 15
		Churamon ...	.....	.....	0 84	.....	.....	... ..	.....	1	0·84	6·10	12·27	60·16	49·18
		Raigunge ...	.....	.....	0·70	.....	... ...	.....	.....	1	0·70	3·55	10 24	66·78	53·38
		Dinagepore ..	.....	.....	0·45	0·04	.....	.....	.....	3	0·89	4·21	10·39	62·23	57·55
		Balorghat .	.....	.....	1·64	.....	.....	.....	.....	1	1·64	7·40	10·57	55·15	48·25
		Thakoorgaon	.....	0·77	.....	.....	.....	.....	.....	1	0·77	9·17	?	80·48	?
	Rungpore ...	Bhawaniganje (*Gyabanda*)	0·12	2·25	1·65	.....	.....	.....	.....	3	4·02	7·62	10·35	68·30	55·21
		Rungpore ...	0 59	1·64	0·15	0·13	.....	.....	.....	4	2·51	8·38	12 94	61·43	67 97
		Kurigram ...	1·51	0·20	0·03	0·10	.....	.....	.....	4	1·84	12·33	10 37	71·28	66·80
		Bagdogra (*Nilphamari*).	0·75	1·95	.....	0·15	.....	.....	.....	3	2·85	10·64	14·50	84·70	78·41
		Ulipore ...	.....	0·62									?		?
	Julpigoree ...	Julpigoree ...	2·49	0·48	0·05	.....	.....	.....	.....	3	3·02	17·18	22·20	133·88	109·28
		Alipore Dooar	4·62	0·20	.....	.....	.....	.....	.....	2	4·82	26·98	?	170·06	?
		Fallacotta ...	2·21	0·43	.....	.....	.....	.....	.....	2	2·04	18·70	?	120·71	?
		Debiganj ...	0·84	3·72	0·50	.....	.....	.....	... ..	3	5·06	12·56	?	95·26	?
		Bhagatpore (*Nagrakatta*)	2·10	0·04	1·33	.....	.....	.....	.....	3	3·47	34·39	?	164·44	?
		Dinhatta ...	2·03	0·83	.....	.....	.....	.....	.....	2	2·86	19·87	17·23	105·47	87·90
	Cooch Behar..	Cooch Behar...	3·27	0·08	.....	.....	.....	.....	.....	2	3·95	25·63	21·19	152·65	110·04
		Mickligunge...	4·75	0·41	0·49	.....	.....	.....	.....	3	5·65	14·59	19·06	128·03	100·00
		Matabhanga...	3·30	2·85	0·21	.....	.....	.....	.....	3	6·36	21·45	18·72	152·91	104·71
		Buxa ...	1·15	0·03	1·21	.....	.....	.....	.....	3	3·29	25·30	28·17	157·72	127·17
	Darjeeling Hill.	Silliguri ...	2·34	2·88	0·28	.....	.....	.....	.....	3	5·50	25·68	14·36	160·01	97 09
		Darjeeling ...	0·18	0·32	0·03	0·04	.....	.....	.....	4	1·17	7·29	16·67	130·90	99·11
		Kalimpong ...	2·52	0·56	0·08	.....	.....	.....	.....	3	3·16	9·65	9·77	104·96	73·61
		Kurseong ...	0·60	2·40	0·52	0·10	.....	.....	.....	4	3·62	14·43	?	171·05	
NORTH BEHAR	Purneah ...	Kissengunge...	.....	4·78	.....	.....	.....	.....	.....	1	4·78	8·51	13·49	84·36	65·65
		Arrareah ...	... ..	4·48	0·33	.....	.....	.....	.....	2	4·81	11·32	12·55	72·04	58·36
		Purneah ...	.....	2·10	0·11	.....	.....	.....	.....	2	2·21	13 63	13·29	75 41	56·19
		Gondwara ...	.....	1·30	.....	.....	.....	.....	1·30	2	2·60		?		?
		Balarampore	.....	1·30	.....	.....	.....	.....	.....	1	1·20	4·96	?	78·20	?
	North Bhagulpor	*Matiari* ...	4·10										?		?
		Kaliagunj ...	1·00	3·50	1·00	.....	.....	.....	.....	5	5·50	20·25	?	106·71	?
		Maddapore ...	.....	1·20	.....	.....	.....	.....	.....	1	1·20	1·20	9·02	51·21	43·36
		Scopool ...	.....	3·11.	.....	.....	.....	.....	.....	1	3·11	3·96	8·42	56 21	45·25
		Protabganj ...	2·65	... ..	.....	.....	.....	.....	.....	1	2·85	4·65	?	43·39	?
	Durbhunga ...	Taipore ...	.....	.....	.....	2	.....	0·03	0·54	5	10·59	2·73	7·24	45·25	38·35
		Durbhunga ...	.....	.....	0·30	.....	.....	.....	0·03	2	10·33	0·62	8·16	51·79	40·62
		Madhubani ...	.....	0·61	.....	.....	.....	.....	.....	1	0·61	1·61	8·69	57·80	40·10
		Bahera ...	.....	.....	0·12	.....	.....	.....	.....	1	0·12	0 67	?	44·05	?
		Keshera ...	.....	0·25	0·05	.....	.....	0·97	1·95	4	3·22	4·87	?	45·33	?
	Mozufferpore	Sitamarhi ...	.....	1·02	1·25	.....	.....	.....	0·03	5	2·30	3·13	3·37	46·18	38·09
		Mozufferpore	.....	0·10	0·42	.....	.....	.....	0·08	3	0·50	1·34	9·04	49·95	40·19
		Hajipore ...	.....	.....	0·60	0·62	.....	0·04	0·09	4	1·35	4·23	8·46	53·35	35·44
		Pare ...	.....	12·04	.....	.....	.....	.....	2·68	3	5·32	7·86	?	58·24	?
		Mahua ...	.....	0·47	.....	.....	.....	.....	1·20	2	1·67	3·23	?	42·26	?
		Bishar ...	.....	1·70	0·10	.....	.....	.....	0·20	3	2·09	4·75	?	43·68	?
		Pupri ...	.....	.....	1·10	.....	.....	.....	.....	1	1·10	1·59	?	45·59	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of September 1890—concld.

Meteorological Division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 20th September.	Sunday, 21st September.	Monday, 22nd September.	Tuesday, 23rd September.	Wednesday, 24th Sept.	Thursday, 25th September.	Friday, 26th September.	Number of rainy days.	Rainfall of week.				
North Behar —concluded.	Chumparun...	Motihari ...	.....	2·07	0·69	.....	.....	.....	.....	2	3·66	5·54	7·79	60·48	39·11
		Bettiah ...	.....	0·46	0·40	.....	.....	.....	.....	2	0·86	5·21	7·45	57·58	42·25
		Bagaha ...	.....	8·30	0·45	.....	.....	.....	.....	2	8·57	18·19	?	85·69	?
		Burhurwa ...	.....	1·05	0·38	.....	.....	.....	0·10	3	1·53	5·11	?	52·17	?
	Sarun ...	Gopalgunge ...	.....	1·35	.....	.....	.....	.....	0·45	2	1·80	3·87	6·47	47·48	36·83
		Sewan ...	.....	0·87	0·56	.....	0·10	0·15	2·30	5	3·88	9·76	7·34	57·18	37·83
		Chuprah ...	.....	0·19	0·23	.....	0·09	.....	2·30	4	2·90	3·41	6·13	44·19	35·36
South Behar	Shahabad	Buxar ...	.....	.....	2·73	0·29	0·15	.....	.....	3	3·17	5·16	6·59	47·37	37·45
		Dehree ...	.....	.....	1·05	0·31	0·10	.....	0·19	4	1·65	2·41	7·56	39·01	36·04
		Bhaboorah ...	.....	0·01	1·10	0·45	0·20	0·30	0·70	6	2·76	5·11	6·31	38·00	36·20
		Sasseram ...	.....	.....	0·82	0·47	0·21	0·07	0·22	5	1·79	2·81	6·49	39·40	35·50
		Arrah ...	.....	.....	.....	1·62	.....	0·20	0·27	3	2·09	5·44	6·17	60·19	35·30
		Mohaniah ...	.....	1·60	0·40	.....	.....	0·40	2·00	4	4·40	5·60	?	35·07	?
	Gya ...	Aurungabad...	.....	.....	0·25	0·18	0·41	.....	0·23	4	1·04	2·56	6·61	56·51	38·35
		Gya ...	.....	.....	.....	.....	0·08	0·16	0·02	3	0·26	0·79	6·65	54·47	38·51
		Nowadah ...	.....	.....	.....	.....	0·38	0·13	0·45	3	0·96	1·61	6·06	52·22	35·42
		Jehanabad ...	.....	... ..	.....	0·21	.....	.....	0·04	2	0·25	0·29	5·09	49·28	35·83
		Arwal ...	.....	.....	.....	0·40	0·30	.....	.....	2	0·70	1·10	?	49·93	?
		Dandnagar...	.....	.....	.....	0·30	1·20	.....	0·30	3	1·80	2·70	?	27·65	?
		Sherrghati ...	.....	.....	.....	0·60	.....	0·30	0·20	3	1·10	1·65	?	32·78	?
		Rajauli ...	.....	.....	0·13	.....	0·15	... ..	0·12	3	0·40	0·88	?	42·20	?
		PakriBarawan	.....	.....	.....	.....	.....	0·30	0·14	2	0·44	1·34	?	48·92	?
	Patna ...	Patna ...	.....	.....	0·18	0·20	.....	0·15	0·10	4	0·72	2·07	6·30	46·13	36·95
		Dinapore ...	.....	0·31	2·40	.....	... ..	0·35	0·28	4	3·34	6·54	5·95	47·16	36·50
		Behar ...	.....	.....	.....	0·23	.....	0·98	0·55	3	1·76	3·91	5·94	41·77	37·12
		Barrh ...	.....	0·80	.....	... ..	0·50	0·10	... ..	2	1·40	2·80	6·39	37·00	34·47
		Bickram ...	.....	.....	.....	0·47	.....	.....	0·05	2	0·52	1·56	?	52·90	?
		Hilsa ...	.....	... ..	.....	0·29	0·17	0·39	0·23	4	1·08	3·89	?	45·81	?
	Monghyr ...	Begooserai ...	.....	.....	.....	0·56	0·05	.....	0·50	4	1·21	2·62	6·68	38·81	35·45
		Monghyr ...	.....	.....	.....	0·16	1·60	.....	0·24	4	2·03	3·53	5·11	49·21	41·38
		Jamui ...	.....	... ..	.....	1·40	.....	0·13	0·16	4	1·88	2·76	6·82	55·89	39·54
		Gogri ...	.....	.....	.....	.....	0·87	.....	.....	1	0·87	2·25	?	66·76	?
		Sheikpura ...	.....	.....	.....	.....	.....	.....	0·30	2	0·55	0·73	?	42·39	?
	South Bhagulpore	Bhagulpore ...	.....	.....	0·04	0·20	.....	.....	0·03	3	0·33	1·13	7·29	50·81	37·90
		Banka ...	.....	... ..	0·02	.....	0·19	0·10	0·02	4	0·33	1·33	7·33	36·31	38·66
		Kolgong ...	.....	0·50	0·42	0·61	.....	0·60	.....	4	2·03	3·29	?	51·69	?
		Bangaon ...											?		?
	Sonthal Pergunnahs.	Rajmehal ...	... ..	.....	.....	0·46	.....	0·10	.....	2	0·56	2·07	11·31	40·63	47·49
		Godda ...	.....	.....	... ..	0·78	0·08	0·05	0·03	4	0·94	1·40	8·92	42·84	39·91
		Pakour ...	.....	.....	1·20	1·05	0·52	0·35	.....	4	3·21	5·33	12·24	56·59	49·80
		Nya Doomka	.....	... ..	0·07	0·94	0·29	0·17	0·29	5	1·76	4·72	9·82	59·68	49·22
		Deoghur ...	.....	.....	0·07	0·34	0·47	0·48	0·24	5	1·60	2·59	8·00	42·49	44·25
		Jamtara ...	.....	.....	0·06	0·45	1·76	0·75	0·09	5	3·11	4·19	6·93	54·27	43·73
		Mohagama ...	.....	.....	.....	... .	0·25	0·12	0·85	3	1·22	1·42	?	43·74	?
		Nanhat ...	.....	.....	.....	0·14	0·84	.....	1·07	3	2·05	2·25	?	25·09	?
Chutta Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	.....	.....	.....	0·31	1·49	0·42	0·90	4	3·12	5·11	8·32	50·64	42·97
		Hazaribagh ...	.....	. ...	1·10	0·97	0·48	0·37	0·29	5	3·21	5·25	7·81	45·11	42·82
		Semtagurah ..	.....	... ..	1·27	0·29	0·30	0·20	0 85	5	2·91	5·12	7·58	36·11	41·43
		Mahudi Hills											7·83		44·00
		Jhoomra Hills	.....	.....	1·90	0·90	0·40	0·50	0·60	5	4·30	7·70	10·36	52·60	55·60
		Barhi ...	.....	.....	.....	0·60	0·55	0·13	0·80	4	2·08	3·29	?	45·84	?
		Chatra ...	.....	.....	.....	.....	0·17	0·06	0·07	3	0·30	1·97	?	43·44	?
		Karagdeha ...	.....	.....	.....	0·02	0·47	0·20	0·28	4	0·97	1·92	?	50·29	?
		Ramghar ...	.....	.....	.....	1·96	.....	0·90	.....	2	2·86	4·06	?	42·72	?
	Lohardugga ...	Lohardugga...	.....	... ..	.....	0·38	0·62	0·20	.....	3	1·20	3·38	9·84	48·28	40·15
		Ranchi ...	.....	.....	0·16	1·56	1·15	0·38	0·40	5	3·65	7·02	8·44	38·76	47·17
		Palamow ...	.....	.....	0·93	0·58	0·02	0·08	0·05	5	1·61	2·81	7·38	42·55	38·53
		Silli ...	.....	.....	1·50	2·60	.....	0·70	0·60	4	5·40	7·80	?	38·10	?
		Balumat ...											?		?
		Hosseinabad	.....	.....	1·35	2·74	.....	.....	0·74	3	4·83	4·83	?	36·74	?
		Garwah ...	.....	0·96	0·19								?		?
	Singbhoom	Chyebassa ...	0·02	.....	0·81	0·42	0·02	0·68	0·04	6	1· 99	5·56	7·56	30·89	46·57
		Chakradharpore.											?		?
		Ghatsilla ...	.....	1·12	0·82	2·10	1·10	0·20	0·90	6	6·24	8·73	?	45·68	?
		Baharagura	.....	1·12	1·17	0·75	1·44	1·62	0·08	6	5·98	7·44	?	46·74	?
	Manbhoom ...	Purulia ...	.....	.....	0·21	1·58	0·32	0·22	0·06	5	2·39	4·89	7·28	40·49	44·18
		Gobindpore ...	.....	.....	0·08	0·78	0·89	0·15	0·60	5	2·50	5·57	7·90	36·24	40·32
		Raghunathpore.	.....	.....	.....	2·50	0·85	.....	1·00	3	4·35	7·70	?	58·32	?
		Barrabhoom	.....	0·08	0·18	1·66	0·80	0·08	0·30	6	3·10	5·13	?	41·40	?
		Jhalda ...	.....	.....	1·52	2·58	1·90	0·19	0·18	5	6·17	8·13	?	56·51	?
		Chas ...	.....	.....	0·05	1·50	0·70	0·14	1·00	5	3·39	5·07	?	44·53	

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the return are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 30th September* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 26TH OF SEPTEMBER 1890.

Weather conditions during the past week have been controlled by the depression which beginning to form on the second day of the week, moved slowly across the Circars Coast into Central India towards the end of the week. Though the influence of the depression has extended over almost the whole of India, still in the neighbourhood of the centre, when forming off the coast of the Circars between Gopalpur and Vizagapatam, weather was never seriously disturbed, wind velocity being very little above the average and squalls generally light. This was probably due to the depression being diffused and even from the first, covering a large area including the western half of the Bay and the land as far as the North-Western Provinces.

At the commencement of the week the pressure distribution was recovering from a shallow depression which had existed off the coast of the Circars for some days, but a trough of low pressure still remained, extending in a north-westerly direction as far as the Himalayas. This began to deepen on the 21st, and wind circulation again became cyclonic in the north-west corner of the Bay. On the 22nd there was a considerable intensification, as pressure fell briskly between Vizagapatam and Masulipatam, and rose briskly to rapidly in Central India and the northern districts. Defect was ·128 inch at Vizagapatam, and under a tenth of an inch at all other stations, but as there had been a rather large rise in the east of Assam the difference between pressure there and in the Circars was ·3 inch, which resulted in a regularly defined indraught over the whole of Bengal. During these two days rain had been falling in North and East Bengal, and had been scanty in the western districts, but after the 22nd it almost stopped in the former districts and became general elsewhere, especially in Orissa where some heavy falls were received. On the 23rd pressure rose everywhere rapidly in the east of Bengal and briskly elsewhere, except in Orissa and the Circars, where changes were about ·03 inch only. On the east of the depression, therefore, gradients again increased, and the area of lowest pressure was just on the point of crossing the coast. Fairly heavy general rain was falling in Lower Bengal and Orissa, but wind velocity increased very slightly, and easterly directions prevailed over the whole province. On the 24th the barometer continued rising in Bengal, and the depression was moving in a north-westerly direction into Central India, while rainfall in the north-west corner of the Bay had become heavier, and wind velocity was generally above the average. Up till the end of the week these conditions remained unchanged, as the depression moved slowly and kept, relatively to Bengal, almost the same position, but on the last day it began to recurve and take a northerly or north-easterly direction so as to bring the western districts of Bengal more within its influence.

Pressure changes have been rather large on several days of the week; but as the depression was chiefly due to differences of increasing pressure, means are nearly everywhere above the normal, the difference varying from ·075 inch below the normal at Gopalpur to about ·05 inch above in Assam, East and North Bengal and North Behar.

Temperature has been everywhere below the normal, defect in the weekly mean for Orissa and Chutia Nagpur being 2·5°, in South-West Bengal 2°, South Behar 1·4° and in the other districts about 1°. At the beginning of the week there was defect of between 3° and 5° in North Bengal and Assam, but elsewhere the difference from the normal was about 1°, except in the west of Behar where there was considerable excess. A rather rapid fall commenced in North Bengal and gradually extended over the province till the 24th, when there was defect over the whole province generally between 3° and 5°.

Rainfall has been very heavy in Orissa, moderately heavy in South-West Bengal and Chutia Nagpur and below the average elsewhere, slightly in Behar and considerably in East and North Bengal. The average excess fall in Orissa is 7·42 inches, in South-West Bengal ·9 inch, Chutia Nagpur ·75 inch; while defect varies from ·2 inch in Behar to 1·34 inches in North Bengal. At the beginning of the week only very scattered showers were falling in Lower Bengal and Behar, but after the formation of the depression on the 21st, general rain fell in Orissa and South-West Bengal till the end of the week, while in East Bengal, Chutia Nagpur, Behar and the southern districts of North Bengal showers were much more frequent, but in the north of North Bengal rainfall almost entirely ceased. The heaviest falls in Orissa were—Balasore 16·67, Cuttack and Jellasore over 14, and Pooree about 12 inches. In the Midnapore district falls were between 5 and 10 inches, and in Bankoora and Beerbhoom they were frequently over 5 inches, but elsewhere the falls at the various stations were very irregular owing to the local character of the showers.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 26th of September 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	90·9	72·8	84·3	77·0	80·9	−2·5	9·60	2·18	+7·42	6·0	3·0	+3·0	15·48	9·16	50·32	48·69
South-West Bengal ...	103·4*	69·2*	86·4	76·1	81·3	−2·0	3·15	2·25	+0·90	5·0	3·2	+1·8	5·45	8·28	44·67	45·88
East Bengal	89·6	72·8	85·7	76·4	81·1	−1·1	1·90	2·81	−0·91	3·3	3·5	−0·2	5·99	10·77	63·46	65·82
North Bengal	92·3	71·1	86·2	76·0	81·1	−1·1	2·09	3·43	−1·34	2·7	3·6	−0·9	8·75	12·31	72·09	63·03
North Behar	93·2	72·2	87·1	76·3	81·7	−1·7	2·18	2·39	−0·21	2·4	2·3	+0·1	5·00	8·72	56·32	45·29
South Behar	93·4	70·5	87·5	76·3	81·9	−1·4	1·59	1·82	−0·23	3·7	2·2	+1·5	3·11	7·31	47·40	39·03
Chutia Nagpur	85·9*	67·4*	80·4*	70·0*	75·2*	−2·5*	2·70	1·95	+0·75	4·6	2·8	+1·8	4·91	8·12	41·75	44·52

* Chyebassa not included.

Meteorological Office, Bengal ; *The 30th September* 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 21st to 27th September 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
September...	21st ...	29·677	84·5	90·2	11·5	78·7	87·5	82·0	1·020	79·8	78	0·07
,, ...	22nd ...	·734	81·7	85·4	7·4	78·0	85·8	79·5	·924	76·8	75	0·38
,, ...	23rd ...	·836	80·1	83·9	7·6	76·3	80·6	78·0	·926	76·9	89	0·80
,, ...	24th ...	·887	78·9	81·9	6·1	75·8	78·1	76·0	·871	75·1	91	0·14
,, ...	25th ...	·812	78·9	81·9	6·1	75·8	81·1	78·0	·919	76·7	87	0·02
,, ...	26th ...	·737	79·5	83·9	8·9	75·0	75·8	74·5	·838	73·9	94	1·05
,, ...	27th ...	·729	81·6	85·9	8·7	77·2	83·1	79·5	·961	78·0	85	3·02

	Inches.
The mean 10 A.M. pressure of the seven days	29·773
The mean temperature of the seven days	80·7
The extreme variation of temperature	15·2
The maximum temperature	90·0
	%
The mean 10 A.M. relative humidity of the seven days	86
	Inches.
The total fall of rain from 21st to 27th September 1890	5·48

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ; *The 29th September* 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 13th September 1890.

Births.

The births registered during the week ending with Saturday, the 13th September 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 22· per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is ·9 lower than the average rate of the corresponding week of the past five years, and is higher than the rate of the corresponding week of any of the past five years except 1885 and 1889—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	26·6	21·1	19·6	21·9	25·7	22·9	22·0

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 23rd August 1890.	30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	Towns.	Weeks ending— 23rd August 1890.	30th August 1890.	6th Sept. 1890.	13th Sept. 1890.
Burdwan	16·8	27·5	53·4	33·6	Naraingunj	16·6	12·4	29·0	20·7
Midnapore	18·6	17·0	17·0	9·3	Chittagong	9·4	4·7	9·4	9·4
Hughli and Chinsurah	14·8	29·5	39·4	39·4	Comillah	19·3	34·7	27·0	11·6
Serampore	13·7	31·4	30·3	31·4	Patna City	15·3	10·1	17·2	15·3
Utterpara	37·7	9·4	37·7	37·7	Gya	31·4	20·0	30·1	26·0
Howrah	21·8	17·2	13·2	21·8	Arrah	41·9	16·7	79·0	16·7
Bali	21·1	14·0	10·5	17·5	Mozufferpore	18·2	9·7	25·5	7·3
Krishnagar	18·9	11·4	34·1	26·5	Durbhanga	14·9	37·0	22·0	22·8
Ranaghat	12·0	.....	6·0	... ..	Chupra	18·1	4·0	25·2	28·2
Santipore	14·0	7·0	22·8	28·3	Bhagulpore	24·4	25·3	30·8	30·8
Jessore	12·2	.. ...	... ..	12·2	Monghyr	37·1	28·0	45·2	38·9
Rampore Beauleah	34·2	42·0	34·2	39·4	Purneah	..	10·4	20·8	10·4
Darjiling	88·9	133·4	29·6	37·0	Poori	12·6	4·2	10·5	14·7
Dacca	10·4	16·9	11·7	14·9	Total ...	20·7	19·0	26·3	22·0

It will be seen that last week the highest birth-rate was returned from Hughli and Chinsurah (39·4), and the lowest from Mozufferpore (7·3). No births were registered during the week in Ranaghat town.

Deaths.

The deaths registered during the week under review correspond to an annual rate of 24·7 per 1,000 of the population. The rate of the week is 6· below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	40·4	28·0	25·1	2·7	31·2	30·7	24·7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 23rd August 1890.	30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	Towns.	Weeks ending— 23rd August 1890.	30th August 1890.	6th Sept. 1890.	13th Sept. 1890.
Burdwan	16·8	24·4	16·8	29·0	Naraingunj	24·8	12·4	16·6	16·6
Midnapore	23·2	9·3	17·0	20·1	Chittagong	16·4	9·4	18·8	9·4
Hughli and Chinsurah	19·7	30·1	18·1	37·7	Comillah	26·9	11·6	19·3	27·0
Serampore	49·1	38·4	43·2	53·0	Patna City	30·4	16·2	26·9	20·4
Utterpara	18·9	28·3	28·3	28·3	Gya	66·3	58·7	58·1	40·3
Howrah	17·6	19·5	10·9	13·7	Arrah	12·0	6·4	29·9	15·6
Bali	28·1	31·6	14·0	16·5	Mozufferpore	25·5	19·5	20·7	24·3
Krishnagar	15·1	9·5	11·4	32·7	Durbhanga	14·9	44·8	30·3	22·8
Ranaghat	29·9	12·0	12·0	6·0	Chupra	16·1	11·1	32·5	30·2
Santipore	25·3	8·8	15·8	19·3	Bhagulpore	12·6	19·0	23·5	18·1
Jessore	58·1	18·4	38·7	42·6	Monghyr	22·6	21·7	27·1	21·7
Rampore Beauleah	26·3	21·0	18·4	39·4	Purneah	34·2	20·8	10·4	18·9
Darjiling	37·0	44·5	59·2	14·8	Poori	42·0	23·2	46·3	31·5
Dacca	24·7	20·1	15·0	26·5	Total ...	24·8	22·0	28·4	24·7

It will be seen that last week the highest mortality occurred in the town of Serampore (53·) and the lowest in Ranaghat (6·).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Chupra ...	30·2	Jessore ...	42·8	Serampore ...	27·5
Mozufferpore ...	8·5	Rampore Beauleah	28·9	Hughli and Chinsurah	14·8
Patna City ...	5·5	Poori ...	25·2	Gya ...	13·7
Gya ...	3·4	Comillah ...	23·1	Dacca ...	11·7
Durbhanga ...	3·1	Gya ...	22·5	Bhagulpore ...	10·0
Dacca ...	2·6				

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·5 from cholera, against 7· per 1,000 in the preceding week; ·04 from small-pox, against ·3; 11· from fever, against 10·5; 2·6 from bowel-complaints, against 3·4; ·5 from injury, against ·4; and 7· from other causes, against 6·8 in the preceding week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males ...	25·1	Christians ...	14·9	Under 1 year	215·1
Females ...	24·3	Hindus ...	25·3	1 and under 5 years	40·8
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	103	Mahomedans ...	23·7	5 „ 10 „	11·3
				10 „ 15 „	13·5
				15 „ 20 „	13·5
				20 „ 30 „	12·8
				30 „ 40 „	12·5
				40 „ 50 „	16·2
				50 „ 60 „	28·9
				60 years and upwards	64·1

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 29th September 1890. *Sanitary Commissioner for Bengal.*

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.														Sex.				
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.						Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	10	12	22	15·3	18·3	33·6	83	..	...	10	2	1	6	19	.	..	15·3	3·1	1·5	9·1	29·0	16·8	10	9	28·8	29·2	111
Midnapore ...	Midnapore ..	16,927	16,633	33,560	4	2	6	6·2	3·1	9·3	200	...	...	3	5	...	5	13	...	...	4·6	7·7	...	7·7	20·1	17·0	6	7	18·4	21·9	84
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	17	7	24	27·9	11·5	39·4	243	..	...	10	3	1	9	23	..	..	16·4	4·9	1·6	14·8	37·7	18·1	12	11	39·3	36·1	109
Serampore ...	Serampore ...	13,559	12,937	26,496	6	10	16	11·8	19·6	31·4	60	...	...	8	5	...	14	27	...	...	15·7	9·8	...	27·5	53·0	43·2	18	9	69·0	36·2	190
	Utterpara	3,046	2,464	5,510	2	2	4	18·8	18·8	37·7	100	...	...	1	1	...	1	3	...	...	9·4	9·4	.	9·4	28·3	28·3	2	1	34·1	21·1	161
Howrah ..	Howrah	53,153	37,660	90,813	20	18	38	11·5	10·3	21·8	111	1	...	17	4	..	2	24	·6	...	9·7	2·3	..	1·1	13·7	10·9	11	13	10·8	18·0	60
	Bali	7,836	6,979	14,815	5	...	5	17·5	...	17·5	No female birth.	...	...	2	1	...		3	..	...	7·0	3·5	..	...	10·5	14·0	1	2	6·6	14·9	46
Nuddea ..	Krishnagar ...	13,263	14,214	27,477	7	7	14	13·2	13·2	26·5	100	...	...	10	...	...	2	12	...	...	18·9	...	...	3·8	22·7	11·4	7	5	27·4	18·3	149
	Ranaghat	4,028	4,655	8,683	...	..	...	...	...	...	...	...	...	...	...	..	1	1	.	...	...	.		6·0	6·0	12·0	1	...	12·9	...	No female death.
	Santipore	13,708	15,979	29,687	6	9	15	10·5	15·8	26·3	66	1	.	7	1	1	1	11	1·7	...	12·3	1·7	1·7	1·7	19·3	15·8	4	7	15·2	22·8	66
Jessore ...	Jessore	4,830	3,665	8,495	2	...	2	12·2	...	12·2	No female birth.	..	...	7	...		...	7	..	..	42·8		...	...	42·8	36·7	4	3	43·1	42·6	101
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	6	9	15	15·8	23·6	39·4	66	.	...	11	2	...	2	15	...	...	28·9	5·2	...	5·2	39·4	18·4	7	8	33·8	46·1	73
Darjiling ...	Darjiling	4,579	2,439	7,018	1	4	5	7·4	29·6	37·0	25	..	...	1	1	.	...	2	...	...	7·4	7·4	..	...	14·8	59·3	2	...	22·7	...	No female death.
Dacca ...	Dacca	42,782	37,379	80,161	13	10	23	8·4	6·5	14·9	130	4	1	[illegible]	7	...	18	44	2·6	·6	9·1	4·5	...	11·7	28·5	13·0	28	16	34·0	22·3	152
	Narainganj ...	7,605	4,956	12,561	4	1	5	16·6	4·1	20·7	400	...	..	2	..	1	1	4	...	...	8·3	.	4·1	4·1	16·6	16·6	4	.	27·4	...	No female death.
Chittagong ...	Chittagong ...	13,340	8,790	22,130	3	1	4	7·0	2·3	9·4	500	...	.	1	1	.	2	4	.	..	2·3	2·3	.	4·7	9·4	18·8	3	1	11·7	5·9	138
Tipperah ...	Comillah	8,153	5,353	13,506	1	2	3	3·9	7·7	11·6	50	..	..	6	..	...	1	7	..	...	2·1	...	...	3·9	27·0	19·3	4	3	25·5	29·1	87
Patna	Patna City ...	78,762	81,475	160,237	20	27	47	6·5	8·3	15·3	74	17	...	20	10	2	14	63	5·5	...	6·5	3·2	·6	4·5	20·4	26·9	30	33	19·8	21·1	93
Gya	Gya	38,290	37,831	76,121	18	20	38	12·3	13·7	26·0	90	5	...	33	.	1	20	59	3·4	...	22·5	...	·7	13·7	40·3	58·1	30	29	40·7	39·9	102
Shahabad ..	Arrah	20,960	22,505	43,465	6	8	14	7·2	9·5	16·7	75	2	...	7	...	...	4	13	2·4	...	8·4	...	..	4·8	15·6	29·9	6	7	14·9	16·2	92
Mozufferpore	Mozufferpore ...	23,084	19,658	42,742	3	3	6	3·6	3·6	7·3	100	7	...	5	1	1	6	20	8·5	...	6·1	1·2	1·2	7·3	24·3	20·7	9	11	20·3	29·1	70
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	16	13	29	12·6	10·2	22·8	123	4	...	13	3	1	8	29	3·1	...	10·2	2·4	·8	6·4	22·8	39·3	17	12	26·2	19·3	135
Saran	Chupra	25,116	26,554	51,670	15	13	28	15·1	13·1	28·2	115	30	...	2	2	...	5	39	39·2	...	2·0	2·0	...	5·0	39·2	82·5	19	20	39·3	39·2	100
Bhagulpore ..	Bhagulpore ...	29,640	27,813	57,453	20	14	34	15·1	12·7	30·8	143	...	.	9	...	.	11	20	...	...	5·1	..	...	10·0	18·1	23·5	12	8	21·1	15·0	141
Monghyr ..	Monghyr	28,154	29,366	57,520	21	22	43	19·0	19·9	38·9	95	..	...	11	3	1	9	24	...	..	9·9	2·7	·9	8·1	21·7	27·1	15	9	27·7	15·9	174
Purneah ..	Purneah	8,463	6,553	15,016	3		3	10·4	...	10·4	No female birth.	...	...	3	1	...	...	4	..	..	10·4	3·5	..	...	13·9	10·4	2	2	12·3	15·9	77
Poori	Poori	13,247	11,537	24,784	6	1	7	12·6	2·1	14·7	600	..	...	12	1	...	2	15	...	..	25·2	2·1	...	4·2	31·5	48·3	2	13	7·9	58·6	13
	Total ...	550,986	510,588	1,061,574	235	215	450	11·5	10·5	22·0	109	71	1	225	54	10	144	505	3·5	·04	11·0	2·6	·5	7·0	24·7	28·4	266	239	25·1	24·3	103

		13					14					15									16								
		MORTALITY ACCORDING TO—																										
		Class.										Age.																
DISTRICTS.	NAMES OF MUNICIPALITIES.	DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.									RATIO PER 1,000 OF POPULATION PER ANNUM.								
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	14	5	...	..	...	30·7	25·3	..	...	6	1	1	1	...	3	1	4	2	...	473·7	23·0	22·3	20·7	...	19·7	7·5	47·1	42·4	...
Midnapore ...	Midnapore ..	...	9	4	...	...	...	18·0	28·8	...	..	2	1	...	2	...	..	2	...	2	4	140·0	22·1	...	34·2	...	...	18·8	...	50·4	113·7
Hushli ...	Hughli and Chinsurah	...	20	3	...	...	...	41·1	25·3	...	...	4	3	1	..	..	4	3	3	...	5	259·0	70·3	18·0	...	...	33·5	27·3	37·4	...	125·4
Serampore ...	Serampore ...	...	21	6	...	...	...	43·3	332·6	...	..	8	2	1	1	1	4	...	...	3	7	585·9	57·6	20·7	23·4	23·8	38·6	...	...	81·5	261·7
	Utterpara	...	3	...	...	...	...	29·3	...	...	..	1	...	...	...	...	...	1	...	..	1	323·0	...	...	...	...	...	49·0	...	...	200·0
Howrah ...	Howrah	...	21	3	...	...	...	16·0	7·6	...	...	6	7	1	...	1	1	2	1	2	3	151·2	65·7	8·3	...	7·1	·3	5·4	4·4	18·9	41·6
	Bali	...	3	...	...	...	...	11·6	...	...	...	...	...	...	...	...	...	..	1	1	1	...	...	...	...	...	...	...	26·9	49·6	71·0
Hooghly ...	Krishnagar ...	1	8	3	...	...	91·7	22·3	18·8	...	...	5	1	1	1	...	...	...	...	...	4	524·2	21·1	15·1	18·5	...	...	...	...	...	120·4
	Ranaghat	...	...	1	...	...	...	...	38·1	...	..	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	51·8	...	...
	Santipore	...	10	1	...	...	...	25·1	5·8	...	...	2	1	...	...	...	1	1	2	...	4	123·1	17·9	...	...	...	10·6	12·0	29·6	...	105·9
Jessore ...	Jessore	...	4	3	...	...	...	46·1	40·8	...	...	1	...	...	1	1	...	1	1	1	1	268·0	...	...	78·2	71·0	...	34·0	49·5	92·4	113·5
Rajshahye ...	Rampore Beauleah	1	6	6	...	...	912·3	42·0	31·8	...	...	5	2	1	1	...	3	...	1	1	1	640·4	75·3	25·0	25·9	...	37·5	...	21·2	41·9	54·0
Darjiling ...	Darjiling	...	2	...	...	...	...	22·6	...	...	...	2	...	...	...	...	...	...	...	...	...	859·5	...	...	...	...	...	...	...	...	...
Dacca	Dacca	...	23	21	...	...	...	29·7	27·8	...	...	4	5	5	4	1	4	6	3	7	5	109·6	35·3	26·2	26·2	7·1	13·6	26·8	18·6	76·9	46·7
	Naraingan] ...	...	1	3	...	...	...	8·2	25·3	...	...	...	1	...	...	...	...	1	...	...	2	...	45·6	...	...	...	...	24·3	...	...	159·5
Chittagong ...	Chittagong ...	...	...	4	...	...	...	...	13·6	...	...	1	...	...	...	...	...	2	...	...	1	92·4	...	...	...	...	...	31·2	...	...	65·3
Tipperah ...	Comillah	...	2	5	...	...	...	17·5	35·2	...	...	1	1	2	..	1	...	...	...	1	1	175·1	39·3	63·9	...	41·3	...	...	...	64·9	76·7
Patna	Patna City ...	...	51	12	...	...	...	22·3	15·3	...	...	7	14	3	1	2	5	8	6	3	14	84·3	49·9	9·3	3·6	9·3	9·0	17·9	16·6	11·0	52·7
Gya ...	Gya	...	44	15	...	...	...	38·1	48·5	...	...	17	12	...	4	1	6	3	5	3	8	463·9	98·2	...	30·9	9·9	21·2	12·3	26·6	23·7	80·8
Shahabad ...	Arrah	...	10	3	...	...	...	16·8	12·6	...	...	3	1	1	1	1	1	1	2	...	2	121·1	11·7	10·1	11·8	16·2	6·6	8·1	22·2	...	36·1
Monufferpore ...	Monufferpore ...	...	12	8	...	...	...	20·8	33·3	...	...	2	2	...	1	1	8	...	1	3	2	108·9	25·7	...	13·1	17·2	48·5	...	10·4	48·0	42·7
Durbhanga ...	Durbhanga ...	...	23	6	...	...	...	24·7	17·8	...	...	7	3	1	...	3	3	2	2	2	6	233·8	20·5	6·6	...	38·8	11·7	9·3	14·0	23·7	97·7
Saran	Chupra	...	31	8	...	...	...	40·7	34·9	...	...	1	12	3	3	3	2	3	2	9	1	36·9	120·9	26·2	31·1	44·9	11·3	20·0	17·1	113·2	15·3
Bhagulpore ...	Bhagulpore ..	...	11	9	...	...	...	14·4	27·2	...	...	8	2	...	2	1	1	2	1	...	3	348·4	19·2	...	16·5	12·4	4·8	11·2	8·3	...	43·3
Monghyr ...	Monghyr	...	21	3	...	...	...	24·4	12·4	...	...	11	2	1	...	1	2	2	3	1	1	385·2	16·7	7·4	...	13·8	10·1	11·7	24·5	13·1	14·5
Purneah ...	Purneah	...	2	2	...	...	...	11·3	18·4	...	...	...	...	...	...	2	2	...	...	..	...	...	...	...	...	104·6	31·7	...	...	...	...
Poori ...	Poori	...	15	..	...	...	...	31·8	...	...	...	1	...	2	2	1	2	1	...	2	4	171·6	...	46·4	55·4	28·0	19·7	12·8	...	46·6	115·2
	TOTAL ...	2	359	134	...	...	14·9	25·3	23·7	...	...	105	73	24	25	21	52	42	39	43	81	215·1	40·8	11·3	13·5	13·5	12·8	12·5	16·2	28·9	64·1

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 29th September 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 27th September 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 28th September 1890.			Week ending Saturday, the 27th September 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	335	85,630	1,424	321	63,050	1,041
Jute	318	1,17,435	2,148	216	1,16,050	1,535
Firewood	83	41,900	649	194	74,350	1,256
Other articles	722	1,83,010	2,830	1,042	2,62,750	3,765
Total ...	1,458	4,27,975	7,051	1,773	5,16,200	7,597

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 5 weeks ended 30th August 1890, *as compared with the same period of* 1889.

Staples.	1890.		1889.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING — Horses, ponies, and mules	No. 20	275	No. 40	621	No.	.....	No. 20	346
ANIMALS, LIVING — Cattle	,, 87	816	,, 73	625	,, 14	191	,, ...	.....
ANIMALS, LIVING — Sheep and goats	,, 3,140	2,422	,, 4,689	3,654	,, ...	.....	,, 1,549	1,232
ANIMALS, LIVING — Other kinds	,, ...	.....	,, ...	.....	,, ...	.....	,, ...	.....
Borax	799	576	503	298	296	278	.....	.....
Canes and rattans	.....	.....	.....	.....	.....	.....	.....	.....
Caoutchouc (Indian-rubber)	.....	.....	.....	.....	.....	.....	.....	.....
Chinese and Japanese ware	16	29	22	36	.....	.....	6	7
Coal and coke, up	7,32,982	1,86,723	6,05,672	2,18,713	1,27,310	.....	.....	31,990
Ditto, down	31,54,033	3,99,431	25,95,189	3,41,723	5,58,844	57,708	.....	.....
Cotton, raw	16,092	14,365	22,975	20,118	.....	.....	6,883	5,753
COTTON, MANUFACTURED — Twist and yarn (European)	7,012	8,090	7,612	8,029	.....	.....	600	839
COTTON, MANUFACTURED — Ditto (Indian)	12,018	7,444	11,928	7,404	90	40	.....	.....
COTTON, MANUFACTURED — Piece-goods (European)	64,790	72,154	70,744	79,522	.....	.....	5,954	7,368
COTTON, MANUFACTURED — Ditto (Indian)	19,331	11,423	19,068	10,717	263	706	.....	.....
DRUGS AND MEDICINES — Asafœtida	127	61	64	36	63	25	.....	.....
DRUGS AND MEDICINES — Other sorts, not intoxicating	728	1,111	901	1,201	.....	.....	238	90
DRUGS AND MEDICINES — Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c.)	735	462	1,089	448	.....	14	354	.....
DYEING MATERIALS — Indigo	1,671	553	9,625	1,889	.....	.....	7,954	1,336
DYEING MATERIALS — Madder or manjit	.....	.....	.....	.....	.....	.....	.....	.....
DYEING MATERIALS — Safflower	295	178	133	136	162	42	.....	.....
DYEING MATERIALS — Turmeric	9,585	9,089	6,019	2,134	3,566	6,955	.....	.....
DYEING MATERIALS — Other kinds	2,403	2,366	1,648	1,208	755	1,158	.....	.....
Earthenware and porcelain	537	928	558	1,009	.....	.....	21	81
FIBROUS PRODUCTS — Jute, raw	28,790	3,461	43,477	4,588	.....	.....	14,687	1,127
FIBROUS PRODUCTS — Do., manufactured (gunny-bags and cloths)	40,186	21,847	54,754	28,911	.....	.....	7,568	7,064
FIBROUS PRODUCTS — Other fibres, raw	490	365	2,012	1,116	.....	.....	1,522	751
FIBROUS PRODUCTS — Ditto, manufactured	1,436	764	1,012	466	424	298	.....	.....
FRUITS & NUTS — Cocoanuts	4,375	2,273	5,518	1,812	857	461	.....	.....
FRUITS & NUTS — All other kinds	27,790	17,986	25,992	16,846	1,798	1,140	.....	.....
GRAIN & PULSES — Wheat	2,71,533	75,540	3,11,863	90,850	.....	.....	40,330	15,310
GRAIN & PULSES — Gram and pulses	2,69,525	68,167	2,91,405	77,707	.....	.....	21,880	9,540
GRAIN & PULSES — Rice, husked	5,21,244	97,366	4,81,924	1,05,966	39,340	.....	.....	8,600
GRAIN & PULSES — Do., unhusked	71,238	6,293	84,408	9,583	.....	.....	13,170	1,290
GRAIN & PULSES — Other rain and spring crops	1,16,286	18,110	83,816	17,800	32,470	310	.....	.....
Government stores	14,652	30,677	21,023	39,991	.....	.....	6,371	9,314
Gums and resins	3,236	1,678	4,349	2,537	.....	.....	1,113	859
HIDES & SKINS — Hides of cattle	20,665	9,800	19,449	10,035	1,216	.....	.....	175
HIDES & SKINS — Skins of sheep, goats, and small animals	13,495	6,458	20,084	7,872	.....	.....	6,589	1,414
Horns	1,917	1,376	1,514	906	403	470	.....	.....
LAC — Lac, dye	113	85	153	86	.....	.....	40	1
LAC — Do., shell	11,675	7,194	8,434	5,866	3,241	1,334	.....	.....
LAC — Do., stick and other kinds	17,752	5,492	8,957	3,045	8,795	2,447	.....	.....
LEATHER — Leather, unmanufactured	1,703	3,566	1,506	3,180	197	377	.....	.....
LEATHER — Ditto, manufactured	1,013	2,159	1,682	2,270	.....	.....	69	111
Liquors	15,599	15,304	15,059	14,823	540	480	.....	.....
Mats	504	229	478	193	26	36	.....	.....
Minerals	1,05,404	17,040	1,28,088	18,123	.....	.....	22,684	1,083
METALS AND MANUFACTURES OF — Brass and copper	21,912	10,983	32,179	24,683	.....	.....	10,267	13,700
METALS AND MANUFACTURES OF — Iron	82,933	51,816	83,157	52,235	.....	.....	224	419
METALS AND MANUFACTURES OF — Other metals	3,209	2,695	5,625	4,842	.....	.....	2,416	2,147
Oils	1,21,194	51,858	71,828	37,442	49,366	14,416	.....	.....
Opium	86	14	716	823	.....	.....	630	683
Paints and colours	2,038	1,549	1,793	1,473	245	76	.....	.....
PROVISIONS — Ghee	29,017	22,642	24,148	19,309	4,869	3,333	.....	.....
PROVISIONS — Other kinds	6,244	4,587	7,808	4,430	.....	157	1,564	.....
Railway materials, Construction Account	2,73,102	9,030	1,46,260	5,040	1,26,842	3,990	.....	.....
Ditto ditto, Foreign	1,22,028	62,104	1,04,201	44,673	17,827	17,431	.....	.....
Salt	3,20,500	72,752	3,69,796	76,310	.....	.....	49,296	3,558
SALTPETRE, &c. — Saltpetre	31,023	14,710	41,184	18,371	.....	.....	10,161	3,661
SALTPETRE, &c. — Other saline substances	31,665	8,955	11,138	3,328	20,527	5,629	.....	.....
SEEDS — Oil-seeds — Linseed	5,48,870	1,67,238	6,17,920	1,88,768	.....	.....	69,050	21,530
SEEDS — Oil-seeds — Mustard and rape	70,010	13,101	2,29,210	39,341	.....	.....	1,59,200	26,240
SEEDS — Oil-seeds — Til or ginjelly	2,573	460	5,013	1,450	.....	.....	2,440	990
SEEDS — Oil-seeds — Other oilseeds	58,871	15,434	98,641	23,174	.....	.....	39,770	7,740
SEEDS — Other seeds — Indigo seed	16,771	9,065	16,071	6,965	700	2,100	.....	.....
SEEDS — Other seeds — Tea seed	.....	.....	.....	.....	.....	.....	.....	.....
SEEDS — Other seeds — Other kinds	30,935	17,730	45,225	19,440	.....	.....	8,290	1,710
SILK — Silk, raw	831	769	1,639	997	.....	.....	808	228
SILK — Do., manufactured (European)	.....	.....	.....	.....	.....	.....	.....	.....
SILK — Do., ditto (Indian)	1,408	848	1,178	758	230	90	.....	.....
Spices	6,579	5,809	7,937	6,373	.....	.....	1,358	474
Stone and marble	2,10,649	23,498	2,34,489	23,829	.....	.....	23,781	331
SUGAR — Sugar, refined	57,102	17,529	78,445	17,410	.....	119	21,343	.....
SUGAR — Do., unrefined	56,108	13,198	53,596	8,873	2,512	4,325	.....	.....
TEA — Tea, Indian	2,937	2,350	4,340	4,119	.....	.....	1,403	1,769
TEA — Do., Foreign	4	3	.....	.....	4	3	.....	.....
Tobacco	27,464	9,592	43,211	15,871	.....	.....	15,747	6,279
WOOD — Timber	27,635	3,718	28,643	4,915	.....	.....	1,008	1,197
WOOD — Firewood	14,927	353	17,409	648	.....	.....	2,482	295
WOOL — Wool, raw	1,469	1,406	1,716	1,583	.....	.....	247	177
WOOL — Do., manufactured (European)	303	580	278	493	25	87	.....	.....
WOOL — Wool, manufactured (Indian)	950	930	1,261	1,205	.....	.....	311	275
WOOL — Shawls	1	2	.....	.....	1	2	.....	.....
All other articles of merchandise	2,34,498	1,29,333	2,32,452	1,34,378	2,046	.....	.....	5,045
Bones	27,022	8,081	14,896	3,782	12,126	4,299	.....	.....
Potatoes	31,773	14,903	36,673	18,266	.....	.....	4,900	3,363
Total	80,71,036	19,03,626	76,37,784	19,80,641	10,17,976	1,30,527	5,84,724	2,07,542

General remarks on the fluctuation of principal staples carried over the East Indian Railway during five weeks ended 30th August 1890.

INCREASES.

Coal and coke.—There was an increase in the weight of upwards traffic carried, attended with decreased earnings; and this was due to larger bookings of short distance coal for the Bengal and North-Western Railway; to increased despatches of short distance Umaria coal, and to a falling off of long distance traffic for the Bombay, Baroda and Central India Railway to Cawnpore, Agra and Delhi.

The improvement in the downward traffic was from nearly all the colliery stations, and was due chiefly to demand for export to coast ports.

Turmeric.—Chiefly in despatches from Howrah to several stations on this line and the Oudh and Rohilkhand Railway.

Lac, shell and stick.—Due to a good demand for shell-lac for export to London. There were also considerable despatches of stick-lac from stations on the Bengal-Nagpur Railway *vid* Asansol.

Oil.—Chiefly kerosine oil from Howrah to Patna.

Railway material, Foreign.—The increase under this head was chiefly in rails from Howrah to Benares, for the Oudh and Rohilkhand Railway.

Other saline substances.—Chiefly hide salt from Patna to different stations on the Howrah and Sahebgunge districts.

Sugar (refined and unrefined)—There was a decrease in the weight of unrefined sugar, chiefly jaggree, from the Oudh and Rohilkhand Railway *vid* Aligarh to Agra and to stations on the Bombay, Baroda and Central India Railway passing Hathras; the slight increase in the earnings of refined sugar was in consignments booked from Howrah to the North-Western Provinces.

Bones.—The increase in this commodity was principally in despatches from Mokameh Ghât, Digha Ghât, Agra and *vid* Mogulsarai to Bally and Sealdah.

DECREASES.

Cotton.—Due to exceptional despatches last year from Agra to some cotton mills near Calcutta, for manufacture.

Piece-goods, European.—The falling off was chiefly in despatches from Howrah owing to the condition of the import trade.

Gunny.—Limited demand, owing to the dull state of the seeds and wheat markets, led to the falling off recorded under this head.

Wheat.—The falling off was chiefly in long distance despatches from the North-Western Railway and stations on the Tundla district to Howrah.

Gram and pulses.—Principally in gram and arhar from stations on the Tundla district, owing to the cold-weather crops having been injured by frosts; also in despatches from the Oudh and Rohilkhand Railway *vid* Moghalsarai to Howrah.

Rice (husked and unhusked).—The increase in the weight carried was chiefly in downwards despatches from stations on the Loop line to Howrah, to replenish stocks and for export. The decreased earnings were entirely in upwards consignments despatched last year from stations on the "A" district.

Government stores.—Chiefly in despatches from Howrah, Allahabad Fort, Agra and *vid* Delhi from stations on the Bombay, Baroda, and Central India Railway.

Brass and copper.—Principally in despatches from Howrah owing to limited demands.

Salt.—The falling off was chiefly in receipts of Kheura salt at Patna; of Sambhar salt at Hathras for stations on the Oudh and Rohilkhand Railway; and of Faraknagar salt at Delhi for stations on the North-Western Railway.

Saltpetre.—From Patna and the Bengal and North-Western Railway principally to Howrah for export.

Seeds.—Chiefly in linseed to Howrah for export and in mustard-seed for local consumption in the Burdwan district.

Stone.—The falling off was principally in despatches of road metal from Pakur.

Tobacco.—Chiefly in despatches from the Tirhoot section of the Bengal and North-Western Railway to Cawnpore and Jubbulpore owing to roads in Tirhoot being impassable.

W. A. DRING, *for Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, *the 23rd September* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY

Approximate Return of Traffic for week ended 20th September 1890, *on* 1,525¼ *miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	*TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*222,606	*2,15,694 8 0	18,46,753 20	4,35,501 9 6	15,086 3 11	6,66,372 5 5	58,900¼	80,317¼	139,217½
Or per mile of railway ...	.....	141 6 3	.....	285 8 8	9 14 3	436 13 2	....	.....	....
For previous 11 weeks of half-year	2,393,758	23,99,565 4 0	2,00,06,525 30	44,41,887 7 0	1,77,209 13 10	70,18,662 8 10	608,190¾	811,449	1,509,639¾
Total for 12 weeks ...	2,616,364	26,15,259 12 0	2,18,53,282 10	48,77,479 0 6	1,92,296 1 9	76,85,034 14 3	757,091	891,766¼	1,648,857¼
COMPARISON.									
Total for corresponding week of previous year	232,003	2,36,438 14 7	21,07,304 30	4,52,468 5 4	16,751 8 5	7,05,658 12 4	65,464	77,739	143,2
Per mile of railway corresponding week of previous year ..	.....	154 15 10	.....	296 9 8	10 15 8	462 9 2	.....	.....	.....
Total to corresponding date of previous year	2,857,414½	28,22,368 7 3	2,54,38,072 0	52,99,326 0 5	1,98,052 3 8	83,20,646 11 4	782,690	974,056	1,757, 46

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic on account of "Aupar Puckaha."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 21ST SEPTEMBER 1889			RECEIPTS FOR WEEK ENDING 20TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 21ST SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 20TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs	Rs.		Rs.	Rs.	Rs.	Rs.
1,525¼	7,05,659	463	1,525¼	6,66,372	437	1,525¼	2,03,47,398	534	1,525¼	1,88,03,965	493	.....	15,43,433

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*10,042	*5,360 5 0	34,090 0	2,521 1 0	33 6 0	7,914 12 0	1,142	454	1,596
Or per mile of railway	176	93 11 5	593 0	44 1 2	0 9 4	138 5 11	.....	.....	.....
For previous 11 weeks of half-year	103,618	52,322 1 0	3,43,446 20	21,149 7 0	472 6 0	73,943 14 0	10,879	6,361	17,240
Total for 12 weeks ...	113,660	57,682 6 0	3,77,536 20	23,670 8 0	505 12 0	81,858 10 0	12,021	6,815	18,836
Comparison.									
Total for corresponding week of previous year	23,000½	14,679 12 11	49,503 10	2,027 7 0	50 11 6	16,757 15 5	2,021	659	2,680
Per mile of railway corresponding week of previous year ...	413	256 10 3	865 20	35 7 2	0 14 2	292 15 7	.....	.....	.....
Total to corresponding date of previous year	104,492	91,141 10 2	5,94,032 10	27,474 2 0	519 5 3	1,19,135 1 5	15,590	8,505	24,101

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included pilgrim traffic on account of "Aupar Pucksha."

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23*rd July* 1883.

Receipts for week ending 21st September 1889.			Receipts for week ending 20th September 1890.			Total receipts from 1st April 1889 to 21st September 1889.			Total receipts from 1st April 1890 to 20th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	16,758	293	57½	7,915	138	57½	2,33,131	163	57½	2,08,603	146	.....	24,528

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, *on* 22¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,090	3,710 12 0	3,757 10	134 12 0	4 10 0	3,850 2 0	923	45	968
Or per mile of railway	.....	166 12 5	.....	6 0 11	0 3 4	173 0 8	.....	.....	.....
For previous 11 weeks of half-year	187,631	45,948 15 0	50,698 10	2,213 11 0	66 14 0	48,220 8 0	9,849	513	10,362
Total for 12 weeks ...	202,721	49,659 11 0	54,455 20	2,348 7 0	71 8 0	52,070 10 0	10,772	558	11,330
Comparison.									
Total for previous [illegible] corresponding week of previous year	16,364½	3,988 7 0	8,822 0	255 3 0	3 12 9	4,247 6 9	922	118	1,040
Total for 11 [illegible] corresponding year ...	.....	179 4 1	.....	11 7 0	0 2 9	190 14 4	.....	.....	.....
Comparison. [illegible] date of ...	209,027	49,571 9 4	64,613 20	2,143 2 0	51 3 3	51,765 14 7	11,111	561	11,672

Total for corresponding [illegible] of previous year ... ...
Per mile of railway correspond-ing period of previous year ...
Total to corresponding date of previous year ... ...

[illegible] of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23*rd July* 1883.

			[illegible] for week ending [illegible]TEMBER 1890.			Total receipts from 1st April 1889 to 21st September 1889.			Total receipts from 1st April 1890 to 20th September 1890.			Total increase in 1890.	Total decrease in 1890.
Approxi[illegible]					Per mile [illegible]orked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
Receipts for week ending 14th September 1889.			Receipts for week en[illegible] 13th September 1890.				Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
Mean mileage worked.	Receipt[illegible]	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	mile[illegible] work[illegible]	1,34,403	242	22¼	1,36,927	246	2,524	.....
	Rs.			Rs.	Rs.								
22¼	1,0[illegible]	48	22¼	970	36	22¼	45,0[illegible]						

* Audited up to week

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 13th September 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	118,990	50,450 0 0	3,66,220 0	89,520 0 0	6,620 0 0	1,46,590 0 0	21,966	26,054	48,020
Or per mile of railway	177	75 0 0	544 0	117 0 0	*1 0 0	193 0 0	.....	.....	.....
For previous 10 weeks of half-year	1,412,190	5,52,146 0 0	54,44,450 0	13,18,936 0 0	1,41,763 0 0	*20,12,845 0 0	221,774	328,079	549,853
Total for 11 weeks ...	1,531,180	6,02,596 0 0	58,10,650 0	14,08,456 0 0	1,48,383 0 0	21,59,435 0 0	243,740	354,133	597,873
COMPARISON.									
Total for corresponding week of previous year	124,236	59,341 0 0	7,82,187 0	1,01,466 0 0	20,181 0 0	2,70,988 0 0	21,543	35,590	57,133
Per mile of railway corresponding period of previous year ..	166	80 0 0	1,047 0	256 0 0	†8 0 0	344 0 0	.....	.....	.....
Total to corresponding date of previous year	1,508,531	6,17,010 0 0	66,10,653 0	15,30,533 0 0	1,55,415 0 0	23,02,958 0 0	246,124	325,269	571,393

* Audited up to week ending 2nd August 1890.

† Excluding steamer earnings.

NOTE.—The decrease, as compared with 1889, is general, and is due to partial failure of a bridge near Bogoola which necessitated the stoppage of goods trains and some of the night passenger services.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 14TH SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,70,988	367	763	1,46,590	192	707	44,38,400	202	758	*45,42,093	250	1,03,693	.....

* Audited up to week ending 2nd August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,820	5,860 0 0	12,470 0	440 0 0	40 0 0	6,340 0 0	3,610	2,061	5,671
Or per mile of railway	143	47 0 0	100 0	4 0 0	.....	51 0 0	.....	.....	.....
For previous 10 weeks of half-year	265,293	80,707 0 0	3,73,570 0	28,060 0 0	2,307 0 0	*1,11,074 0 0	35,080	2 64,619	'93
Total for 11 weeks ...	283,113	86,567 0 0	3,86,040 0	28,500 0 0	2,347 0 0	1,17,414 0 0	38,690		
COMPARISON.									
Total for corresponding week of previous year	24,892	8,821 0 0	97,459 0	11,782 0 0	15 0 0	20,618 0 0	14,260	24,334	
Per mile of railway corresponding period of previous year ...	199	71 0 0	780 0	94 0 0	.....	165 0 0	.....	.....	
Total to corresponding date of previous year	300,789	95,743 0 0	6,28,572 0	57,305 0 0	1,746 0 0	1,54,794 0	31,738	43,061	21,799

* Audited up to week ending 2nd August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Cen[illegible]rhoot State Railways.

RECEIPTS FOR WEEK ENDING 14TH SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH SEPTEMBER 1889.			RECEIPTS FROM 1ST [illegible]TIL 1889 TO [illegible]TH JULY 1889.		Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
135	20,618	165	125	6,340	51	135	[illegible]9	146·70	649	15,41,402	149·78	.....	29,188

* Audited up to week ending [illegible] E. B. and N.-W. and T. S. Railways.
do.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,390	4,130 0 0	7,040 0	720 0 0	50 0 0	4,900 0 0	2,414	690	3,104
Or per mile of railway	167	48 0 0	82 0	8 0 0	1 0 0	57 0 0	.....	.....	.....
For previous 10 weeks of half-year	142,890	45,930 0 0	1,27,810 0	11,006 0 0	3,326 0 0	*60,262 0 0	23,484	6,702	30,186
Total for 11 weeks ...	157,280	50,060 0 0	1,34,850 0	11,726 0 0	3,376 0 0	65,162 0 0	25,898	7,392	33,290
Comparison.									
Total for corresponding week of previous year	15,224	4,997 0 0	25,636 0	2,327 0 0	239 0 0	7,563 0 0	2,537	1,499	4,036
Per mile of railway corresponding period of previous year	177	58 0 0	298 0	27 0 0	3 0 0	88 0 0	.....	.....	.....
Total to corresponding date of previous year	162,070	49,111 0 0	1,79,815 0	12,686 0 0	2,482 0 0	64,279 0 0	27,257	9,757	37,014

* Audited up to week ending 2nd August 1890.
Suspension of goods trains on the Eastern Section has affected the traffic of this line.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 14th September 1889.			Receipts for week ending 13th September 1890.			Total receipts from 1st April 1889 to 14th September 1889.			Total receipts from 1st April 1890 to 13th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.			Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,563	88	86	4,900	57	86	1,38,558	67	86	*1,47,023	71	8,465	.....

* Audited up to week ending 2nd August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 13th September 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,520	850 0 0	2,100 0	110 0 0	10 0 0	970 0 0	580	170	750
Or per mile of railway	93	31 0 0	80 0	4 0 0	1 0 0	36 0 0	.....	.....	.....
For previous 10 weeks of half-year	30,820	10,909 0 0	84,350 0	4,474 0 0	158 0 0	*15,541 0 0	5,518	2,823	8,341
Total for 11 weeks ...	33,340	11,759 0 0	86,540 0	4,584 0 0	168 0 0	16,511 0 0	6,098	2,993	9,091
Comparison.									
Total for corresponding week of previous year	2,826	1,000 0 0	9,344 0	648 0 0	37 0 0	1,685 0 0	586	395	981
Per mile of railway corresponding period of previous year ...	104	37 0 0	343 0	24 0 0	1 0 0	62 0 0	.....	.....	.....
Total to corresponding date of previous year	32,677	11,941 0 0	105,438 0	6,925 0 0	575 0 0	19,441 0 0	6,296	4,003	10,299

* Audited up to week ending 2nd August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 14th September 1889.			Receipts for week ending 13th September 1890.			Total receipts from 1st April 1889 to 14th September 1889.			Total receipts from 1st April 1890 to 13th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,0[illegible]	38	27¼	979	36	27¼	45,[illegible]90	69	27¼	*42,823	65	.....	2,497

* Audited up to week ending 2nd August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for first 12 *days of July* 1890, *on* 691 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs	Rs.			
tal traffic for the week (on 691 miles open)	123,275	56,595	4,70,440	55,093	12,367	1,24,055	18,422	22,098	40,520
per mile of railway	178·40	81·90	680·81	79·73	17·90	179·53	.....	.....	.....
r previous nil weeks of half-year	.....	.....	.....	.....	... ...	.....	... ...	.....	.....
Total for 1 week ...	(a)123,275	56,595	(b)4,70,440	55,093	*12,367	1,24,055	18,422	22,098	40,520
COMPARISON.									
Audited figures.									
tal for corresponding week f previous year on 649 miles pen	166,524	60,213	5,00,445	72,049	17,109	1,49,371	21,664	25,801	47,465
r mile of corresponding week f previous year	256·59	92·78	771·10	111·94	2·36	281·08	.....	.....	.....
tal to corresponding date of previous year	166,524	60,213	5,00,445	72,049	17,109	1,40,911	21,664	25,801	47,465

* Steam-boat earnings for the week, Rs. 8,720.
Do. do. to date, „ 8,720.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot State Railways.

Receipts for first 12 days of July 1890.			Receipts for first 13 days of July 1889.			Total receipts from 1st April 1890 to 12th July 1890.			Total receipts from 1st April 1889 to 13th July 1889.			Total increase in 1889.	Total decrease in 1889.
ean leage rked.	Receipts.	Per mile worked	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	1,24,055	179·53	649	1,49,971	231·08	654	14,45,700	150·23	649	14,65,825	152·02	...	20,125

(a) Excludes 5,254 passengers, being traffic common to B. and N.-W. and T. S. Railways.
(b) Do. 21,052 maunds, do. do. do. do

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 19*th July* 1890, *on* 691 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
tal traffic for the week (on 691 miles open)	75,398	27,829 0 0	2,81,015 0	32,050 0 0	6,640 0 0	66,519 0 0	10,767	13,332	24,099
per mile of railway	109·11	40·27 0 0	406·68 0	46·38 0 0	9·61 0 0	96·26 0 0	.....	.....	.....
r previous 1 week of half-year	123,275	56,595 0 0	4,70,440 0	55,093 0 0	12,367 0 0	1,24,055 0 0	18,422	22,098	40,520
Total for 2 weeks ...	(a)198,673	84,424 0 0	(b)7,51,455 0	87,143 0 0	19,007 0 0	1,90,574 0 0	29,189	35,430	64,619
COMPARISON.									
Audited figures.									
tal for corresponding week f previous year on 649 miles pen	77,002	26,962 0 0	3,50,863 0	40,785 0 0	7,830 0 0	75,577 0 0	10,07	14,260	24,334
r mile of corresponding week of previous year ...	118·65	41·54 0 0	540·62 0	62·84 0 0	12·07 0 0	116·45 0 0	.....	.....	.....
tal to corresponding date of previous year	243,526	87,175 0 0	8,51,308 0	1,13,434 0 0	24,939 0 0	2,25,548 0 0	31,738	43,061	21,799

* Steam-boat earnings for the week Rs. 5,360
Do. do. to date „ 14,130

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot State Railways.

Receipts for week ending 19th July 1890.			Receipts for week ending 20th July 1889.			Total receipts from 1st April 1890 to 19th July 1890.			Total receipts from 1st April 1889 to 20th July 1889.			Total increase in 1889-90.	Total decrease in 1889-90.
ean leage rked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	66,519	96·26	649	75,577	116·45	656	15,12,219	146·79	649	15,41,492	149·78	.....	29,188

(a) Excludes 8,246 passengers, being traffic common to B. and N.-W. and T. S. Railways.
(b) Do. 40,598 maunds, do. do. do.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 26th July 1890, on 691 miles open

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	75,965	27,637	2,17,943	25,696	5,393	58,726	10,912	12,187	23,099
Or per mile of railway ...	109·96	40·00	315·40	37·19	7·80	84·99	.....	.....	.....
For previous 2 weeks of half-year	198,673	84,424	7,51,455	87,143	19,007	1,90,574	29,189	35,430	64,619
Total for 3 weeks ...	(a) 274,658	1,12,061	(b) 9,69,398	1,12,839	* 24,400	2,49,300	40,101	47,617	87,718
COMPARISON. *Audited figures.*									
Total for corresponding week of previous year on 649 miles open	71,479	23,870	2,87,380	30,641	8,856	63,097	10,444	12,834	23,278
Per mile of corresponding week of previous year	110·14	36·78	442·80	47·21	13·65	97·64	.....	.....	.....
Total to corresponding date of previous year	315,005	1,11,045	1,1,38,088	1,44,375	33,795	2,88,915	42,182	52,895	95,077

* Steam-boat earnings for the week, Rs. 3,840.
Do. do. to date, „ 17,970.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot State Railways.

Receipts for week ending 26th July 1890.			Receipts for week ending 27th July 1889.			Total receipts from 1st April 1890 to 26th July 1890.			Total receipts from 1st April 1889 to 27th July 1889.			Total increase in 1889.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	58,726	84·99	649	63,367	97·64	658	15,69,994	142·75	649	16,04,709	146·68	.....	34,775

(a) Excludes 11,055 passengers, being traffic common to E. and N.-W. and T. S. Railways.
(b) Do. 47,292 maunds, do. do. do. do.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 13th September 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	77,450	26,850	2,87,490	35,750	6,460	69,060	12,680	8,790	21,470
Or per mile of railway	112·08	38·85	416·05	51·74	9·35	99·94	.....	.....	.....
For previous 9 weeks of half-year	706,988	2,73,609	24,53,480	2,81,890	62,467	617,966	115,308	111,955	227,263
Total for 10 weeks ...	(a) 784,438	3,00,459	(b) 27,40,970	3,17,640	*68,927	687,026	127,988	120,745	248,763
COMPARISON. *Audited figures.*									
Total for corresponding week of previous year	78,050	27,470	2,14,481	17,427	5,337	50,234	11,457	9,143	20,600
Per mile of corresponding week of previous year, 649 miles open	120·26	42·33	330·48	26·85	8·22	77·40	.....	.....	.....
Total to corresponding date of previous year	836,195	2,88,165	33,48,713	3,77,376	90,079	755,620	114,928	149,872	264,800

* Steam-boat earnings for the week, Rs. 5,290.
Ditto to date, „ 51,540.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot State Railways.

Receipts for week ending 13th September 1890.			Receipts for week ending 14th September 1889.			Total receipts from 1st April 1890 to 13th September 1890.			Total receipts from 1st April 1889 to 14th September 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	69,060	99·94	649	50,234	77·40	666	20,10,766	126·93	649	20,71,273	133·77	.....	60,507

(a) Excludes 27,546 passengers, being traffic common to E. and N.-W. and T. S. Railways.
(b) Do. 1,26,113 maunds, ditto ditto ditto.

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RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE EXCISE DEPARTMENT FOR 1889-90.

FINANCIAL DEPARTMENT—EXCISE.

Darjeeling, the 3rd October 1890.

RESOLUTION.

READ—

The Report of the Commissioner of Excise on the Administration of the Excise Department for the year 1889-90, with the observations of the Board of Revenue thereon.

In accordance with the orders of the Government of India, an account of the various systems of excise in force in Bengal has been prefixed to this report.

Appointment of Excise Commissioner.

2. Mr. Westmacott took charge of his appointment as Commissioner of Excise on the 4th April 1889, and has worked in direct communication with district officers under the general supervision and direction of the Board. During the past year seven additional Deputy Collectors have been sanctioned for the better administration of excise work. There were previously 14 special Deputy Collectors employed on excise duty, and the total number sanctioned is therefore now 21. With reference to financial considerations, however, only four out of the seven new appointments

And of special Excise Deputy Collectors.

have been filled up, and the remaining three appointments are in abeyance. There are at present 17* districts in which the excise control is placed in the hands of a special Deputy Collector, who is also made responsible for the administration of the income-tax, but who is, as a general rule, not entrusted with other revenue or any magisterial functions. Mr. Westmacott speaks very favourably of this arrangement, and observes that with few exceptions the excise administration in the 26 districts in which it has been entrusted to officers who have much other work to do has been greatly inferior to that in districts where there are special officers, and he would be glad if Government could place more special officers at his disposal. This view is not altogether accepted by the Board, who are not satisfied that the appointment of a special officer has always resulted in better work, and also point out that the deputation of an officer to excise duties alone is only beneficial when the excise work of the district is such as to occupy the whole of his time during the whole of the year; and add that it has come to their knowledge that in several districts in which these special officers are employed, the Collectors do not think that they have work enough to occupy the whole of their time, and wish to employ them on other duties. The question is one of considerable practical difficulty, and it is not easy to reconcile the conflicting claims of the head of a department, who naturally contends that the whole of the services of a staff of officers whose salaries are entirely defrayed from his own budget should be placed exclusively at his disposal, with those of district officers who are more interested in the efficiency of their general administration than in that of any particular department, and would gladly utilise the excise officer on general duties whenever necessity arises for doing so. It appears to the Lieutenant-Governor that the solution of this difficulty can only depend on the actual facts in each case. It is not desirable that these Deputy Collectors should be employed on judicial duties: so far His Honour accepts Mr. Westmacott's position: but if in point of fact a special excise officer's time is not fully employed on excise in any district, it is the duty of the Excise Commissioner to raise no objection to his being employed on general miscellaneous and revenue work so long as excise is not neglected. The pressure of the general administration in all districts is now so great that it is imperatively necessary to insist on the utilisation of all Deputy Collectors and Magistrates to the utmost of their power. Where the whole time of an Excise Deputy Collector is employed for the whole year on excise work, there is nothing left to be said; but where he is not so employed, his services must be fully utilised in the district where he serves. The Lieutenant-Governor is confident that the highest consideration will always be given by the Board to the views of the Excise Commissioner in regard to the requirements of particular districts; but at the same time the Board, who are responsible for the administration of the revenue in all departments, are obviously in a better position than the Excise Commissioner can be to decide when there is any difference of opinion with the local authorities on questions of fact, and it must be left therefore for the Board to advise the Government in all cases in which they consider that the present practice of the exclusive employment of the Special Deputy Collectors on special work should be relaxed. The question of budget provision appears to be sufficiently met by the reply that, although the whole salary of these Special Deputy Collectors is met from Excise, it is also true that the whole salary of Deputy Collectors whose time is only partially devoted to excise duties is wholly paid from General Revenues.

* One Special Deputy Collector is employed as Personal Assistant to the Excise Commissioner.

3. In other respects the Department of Excise has been materially strengthened during the year. The Board observe:—

Subordinate establishment.

"The dual appointments of Assessor-Inspectors employed partly on excise and partly on income-tax work have now been abolished, and, as regard excise, a Sub-Inspector has been appointed in the room of each. As vacancies occur in the ranks of Inspectors of Excise, or as these officers are otherwise provided for, they are being replaced by Sub-Inspectors receiving from Rs. 50 to Rs. 70 per mensem. By these means a larger number of Sub-Inspectors can be employed, while at the same time it is found that the duties of detection,

prevention, and inspection of retail shops and outstills can be as well performed by Sub-Inspectors as by Inspectors."

The Lieutenant-Governor is glad to notice that Mr. Westmacott writes in very satisfactory terms of the improvement in the work done by the new class of officers (who are men of some education and of better position than the old officials) in comparison with the darogahs and excise mohurirs whom they have replaced.

Financial results.

4. The financial results of the administration of the department during the year show a decrease in the revenue of Rs. 4,15,547 and an increase in the charges of Rs. 44,974, leaving a decrease of Rs. 4,60,521 in the net revenue. The statement of charges wrongly omits the salary of the Excise Commissioner and his establishment. If these are added, the increase, as the Board point out, becomes Rs. 85,000 in round numbers, and the percentage of charges on revenue is raised to five per cent. The decrease in revenue occurred in all divisions except Rajshahye and Chota Nagpore. The figures for each division compared with those of 1888-89 are shown below :—

Divisions.	1888-89.	1889-90.	Increase.	Decrease.
	Rs.	Rs.	Rs.	Rs.
Burdwan ...	11,69,671	11,26,936	.....	42,735
Presidency ...	29,72,143	29,02,896	....	69,247
Rajshahye ...	7,50,612	7,83,233	32,621	.....
Dacca ...	8,03,582	7,76,974	.....	26,608
Chittagong ...	2,87,896	2,27,259	.....	60,637
Patna ...	26,14,265	23,76,193	.....	2,38,072
Bhagulpore ...	11,98,293	11,76,995	.....	21,298
Orissa ...	5,22,438	5,04,908	.....	17530
Chota Nagpore ...	5,70,173	5,98,032	27,859	.. ...

5. The fluctuations in the total collections under the different heads of revenue are shown in the following table:—

Articles of Excise.	Revenue.			In 1889-90 compared with 1888-89.		In 1889-90 compared with 1884—89.	
	Average of 1884—89.	In 1888-89.	In 1889-90.	Increase.	Decrease.	Increase.	Decrease
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Country spirits	49,37,075	50,90,315	47,07,132	.....	3,83,183	...	2,29 943
Rum	89,182	72,851	1,00,675	27,824	..	11,493	...
Imported liquors	2,22,189	2,21,153	2,14,090	.....	7,363	...	8,099
Tari	7,07,780	7,88,901	8,26,314	37,413	...	1,18,534	..
Pachwai	1,80,787	2,15,191	2,32,683	17,491	.....	51,895	... .
Charas	2,133	2,755	3,535	780	... .	1,402	...
Siddi, sabzi or bhang	38,222	42 671	3,141	470	... .	4,919	.
Majum	2,289	2,092	2,067	.....	25	.....	202
Madak	86,482	85,753	82,825	.....	2,928	...	3,657
Chandu	32,643	30,254	35,216	.....	1,038	2,573	..
Spirits used for arts	246	119	143	24	...	...	103
Ganja	21,16,690	23,18,354	22,50,690	...	58,663	1,43,600	.. ...
Onium	19,29,455	20,08,134	19,59,486	.....	48,648	30,031	.....
Miscellaneous	5,708	4,131	6,430	2,299	.....	632	.
Total	1,03,50,351	1,08,88,973	1,04,73,426	86,301	5,01,848	3,65,079	2,42,004

The population being taken at 66,700,000, the total excise revenue, exclusive of the customs duty on imported liquors, was at the rate of $2\frac{2}{5}$ annas per head.

6. The statement of charges in the Excise Department amounts to Rs. 4,77,739 (excluding the cost of the Excise Commissioner and his establishment) against Rs. 4,32,765 in the previous year. The increase occurred chiefly under the heads of establishment and petty constructions connected with the gradual re-introduction of the distillery system.

Current settlements

7. The settlements for the current year show a decrease of Rs. 1,32,270 as compared with those of the year under review. This result is attributable in the Burdwan and Dacca Divisions to the abolition of outstills, and the loss will be recouped in a large measure in stillhead duty. Elsewhere it is due to combination among the abkars and to the prevailing scarcity and high price of food.

8. The figures given in the margin show in an abstract form the results of the working of the outstill and sudder distilleries during the past two years. In 1887-88 the revenue was Rs. 52,05,042, in 1888-89 it was Rs. 50,90,315: it has now fallen in the past year to Rs. 47,07,132. There is a large decrease, therefore, of Rs. 3,83,183, of which Rs. 2,19,603 occurred in the Patna Division alone. The Board observe: "Generally speaking the decrease in revenue under this head may be attributed partly to the reduction in the number of outstills, partly to resistance on the part of the abkars to the excise policy of increasing taxation, partly to the falling off in advance collections owing to the introduction of the distillery system, and in no small degree to agricultural scarcity."

Country spirits.

	Average of 1884—89.	1888-89.	1889-90.
Under the Sudder Distillery system.			
Number of shops	599	576	632
	Gallons.	Gallons.	Gallons.
Consumption	891,993	1,057,119	853,259
	Rs.	Rs.	Rs.
License fees	5,11,002	5,40,069	5,76,512
Distillery fees	62,431	70,108	55,069
Stillhead duty	13,10,578	13,44,077	13,00,686
	17,74,071	19,55,754	19,32,267
Under the outstill system.			
Number of shops	3,633	3,437	2,957
	Rs.	Rs.	Rs.
License fees	31,63,004	31,34,561	27,74,925
Total receipts under both systems	49,37,075	50,90,315	47,07,132

Re-introduction of central distilleries.

9. The year was an eventful one in the history of Bengal excise. Upon the 1st April 1889 outstills were abolished throughout the whole of the district of the 24-Pergunnahs, as well as in Howrah and the Serampore sub-division of Hooghly. This change has resulted in a decrease of revenue, and, what is more important to observe, a decrease in consumption also. The revenue from country spirits throughout the whole of the metropolitan area affected, including Calcutta, fell from Rs. 14,19,384 to Rs. 13,32,888. The consumption of liquor throughout the same area decreased from 275,842 to 228,925 gallons. In the area previously supplied from outstills the consumption fell from 50,913 gallons, as shown in the outstill accounts, to 13,079 gallons issued from the central distilleries. These calculations are in gross gallons in each case, and although the central distillery liquor in Calcutta is of high alcoholic strength, while the outstill spirit was exceedingly weak, there can be no doubt that there has been in this area a satisfactory reduction in the consumption of country spirits. The retail price was more than doubled. *Per contra* there was an increase in the consumption of country rum.

10. From the 1st April 1890 outstills have been abolished throughout the whole of the Burdwan, Presidency, Dacca, and Orissa Divisions. The Lieutenant-Governor is glad to acknowledge the loyal co-operation of Mr. Westmacott in giving effect to the wishes of Government for the re-introduction of the distillery system in this large area. It is unfortunate that both this reform and that of raising the price of outstill liquor in order to equalise the estimated duty on it with that of distillery liquor, should have had to be introduced in a season of general high prices, which form a disturbing element and obscure for the present the real effects of the measure. How important the effect of high prices has been may be gathered from the falling off of consumption in distillery liquor in Patna, where there has been no other cause to account for the diminution. Both the Board and Mr. Westmacott are of opinion that in certain parts of Western Bengal, where these reforms have been introduced, the facilities for obtaining a cheap illicit supply of liquor are so great that it would have been advisable to retain outstills at least for the present, and in the same connection the Board record the significant observation that they "trust that the measures already adopted for re-introducing the central distillery system may be regarded as an experiment which requires watching before it is extended." Upon this question the Lieutenant-Governor can say little more than emphatically repeat what he has already declared on more than one occasion, that "it must be distinctly understood by the Excise Commissioner, and by all officers concerned with the administration of excise in Bengal, that the policy which has received the approval of the Secretary of State and of Government is that the outstill system should be replaced by a central distillery system whenever circumstances render it

expedient; and, speaking generally, the only circumstances which render the change inexpedient are sparse population, difficulties of supervision, proximity to alien territory, and a liquor which will bear neither transportation nor keeping." This enunciation of policy has been approved by the Secretary of State. On the other hand, it has been declared under equal authority that "it is not intended that outstills should be suppressed in localities where experience shows that distilleries cannot be advantageously introduced." It is on these lines that the action of Government has been based. The Secretary of State expressed a hope, in his despatch dated 18th July 1889, to the Government of India, that the rates of excise revenue raised under the outstill system in Bengal might be reduced from 61 per cent. to some such rate as that which obtained in Madras and the North-West Provinces at any rate, if not to that obtaining in Bombay. The percentage of outstill revenue to total revenue from country spirits in the several provinces mentioned during the year 1887-88, which is the period referred to by the Secretary of State, is given in the margin. During the year under review the proportion in Bengal had slightly decreased to 58 per cent., and during the current year there will be a considerable further reduction. But it will not be possible in Bengal to work up to the low percentage attained in other provinces. One-half of the Bengal revenue from country spirits is derived from the Patna, Bhagulpore, and Chota Nagpore Divisions, where the principal material used for the manufacture is the flower of the mohwa tree, and the spirit so made, as is well known, will not bear transport, and rapidly deteriorates when kept. It is of the weakest possible description, being 80 or 90 per cent. below London-proof. Such spirit must be manufactured near the place where it is consumed; and this, if there were no other objection, is a conclusive reason why a central distillery system cannot be successfully introduced into such tracts of country as the rural parts of Behar and Chota Nagpore. The people are accustomed to this weak liquor, and will only drink it when it is fresh. The number of central distilleries must everywhere be limited. The failure of the old system of distilleries was largely due to their excessive number and to the consequent impossibility of exercising proper supervision over them. It has now been deemed advisable to have central distilleries only at the head-quarters of districts where they can be thoroughly watched by responsible officers. At the same time arrangements have been made for the establishment of depôts or warehouses at all sub-divisional head-quarters, from which shops remote from the distilleries can be supplied with liquor. This system, as Mr. Westmacott points out, adds greatly in cost of carriage to the price of liquor before it reaches the retail vendors. But it appears to be the only way in which a central distillery system can be worked in Bengal without risk of fraud. It cannot be worked in Behar because, as already explained, the liquor will not keep or bear the transit. The depôts are kept under the eyes of the Assistant or Deputy Collectors in charge of sub-divisions.

Bengal ...	61 per cent.
Madras ...	15 „
Bombay ...	5 „
North-Western Provinces and Oudh	16 „

11. The total revenue realized under the central distillery system during the past year was Rs. 19,32,207 against Rs. 19,55,754 in the previous year. There was thus a small falling off notwithstanding the extension of the distillery area. The statistics of consumption show, however, a large decline from 10,57,119 gallons in 1888-89 to 8,53,259 gallons in 1889-90. The decrease was almost entirely in the Patna Division, of which the figures, district by district, are given in the margin. As both the system and the distillery area in these districts remained unchanged, there can be no explanation of this decrease other than that the year was one of general depression and bad trade. The figures are unaffected by any action of the Excise Department.

	1888-89.	1889-90.
	Gross gallons.	Gross gallons.
Patna	409,408	3,25,643
Gya	106,262	6[illegible],285
Shahabad	53 3[illegible]4	44,892
Mozufferpore	21,345	11,765
Durbhunga	10,339	8,31[illegible]
Saran	91,828	41,765
Chumparam	8,980	6,587
Total ...	706,546	507,256

Outstills.

12. The total revenue derived from outstill license fees decreased from Rs. 31,34,561 to Rs. 27,74,925. Great attention has been paid to limitation of capacity of stills and fermenting vessels. In the districts of the Chittagong Division the capacity of stills has, with regard to local considerations, not been reduced. For the rest

of the province in which outstills still exist, that is to say, in the Patna, Bhagulpore, Chota Nagpore and Rajshahye Divisions, the following figures will show the number and aggregate capacity of the outstills allowed during the past five years:—

	Number of outstills allowed.	Liquid capacity of outstills in gallons.
Open in 1886 87	2,409	76,230
„ in 1887-88	2,410	53,632
„ in 1888-89	2,359	45,874
„ in 1889-90	2,141	38,147
Sanctioned for 1890-91	1,798	30,492

13. The number of outstills is being reduced wherever they appear to be more numerous than is necessary to satisfy the local demand for liquor; and as the fees are being gradually raised so as to force the retail price up to the price fixed by the distillery rate of duty for each district, the abkars in many cases refuse to accept settlement. The changes involve an increase in the retail price of liquor which is stubbornly resisted. In the Lieutenant-Governor's opinion, Mr. Westmacott deserves credit for the firm attitude he has maintained in adhering to the high fees fixed for outstills, and he entirely approves of the action of the Board in supporting this policy. The experiment must be allowed a full and fair trial: it was always anticipated that it would entail an immediate loss of revenue, and the deliberate intention throughout has been to force the abkars to increase their retail prices and so reduce consumption. If this result is attained, a temporary loss of revenue is comparatively a small matter, and unless the demand for liquor has been artificially stimulated by an undue cheapening of outstill liquor (as compared with the price maintained by distillery spirit), it is certain that the normal demand will re-assert itself and the revenues will recover. Sir Steuart Bayley has no doubt that the policy is a sound one. It must be introduced gradually and with discretion, and there should, in his opinion, be no going back from it, though the effects of bad seasons render its influence on the revenue more conspicuous than it would otherwise have been. The consumption of outstill liquor has materially decreased in the 16 districts of Bengal where what is known as the Patna system prevails, and outstills and central distilleries are allowed in the same district. The figures are obtained by the district officers from the abkars, and cannot be altogether relied on as accurate; but the errors of a particular year are balanced by the errors of another, and for purposes of comparison the result is one which may be generally accepted. The figures are in London-proof gallons, and show a decreasing consumption during the past three years as follows:—

	Gallons.
1887-88	1,396,537
1888-89	1,188,123
1889-90	755,553

	Rs.
1887-88	... 18,64,727
1888-89	... 18,06,366
1889-90	... 15,91,178

The outstill revenue from these districts also shows a decrease as noted in the margin, but the proportion of the decrease in revenue is much less than that of the decrease in consumption.

Selection of sites for outstill shops.

14. During the course of the year special rules were issued by Government and published for general guidance on the subject of the selection of sites for excise shops. Distinct instructions have been given to the licensing officers to ascertain and consider local opinion, and it has been ordered that where municipalities exist the Municipal Commissioners should be consulted in determining the location of shops. The procedure prescribed is one of old standing in these provinces; but it has now for the first time been promulgated in the form of rules. It is reported that there has been some loss of trade and consequent loss of revenue from fees on account of the more careful observance of the principles now enforced. The question of the location of shops in the vicinity of tea-gardens is one of special difficulty and importance. Under the orders of the Secretary of State a most careful and exhaustive enquiry was made into the facts connected with the excise administration in the tea districts in Bengal. The papers then submitted afford conclusive evidence of conscientious and successful endeavours to organize the department in

accordance with the recognized principles on which a proper excise policy must rest. It was shown that the coolie population had enormously increased owing to the establishment of new gardens, that the coolies all belonged to tribes who habitually consume spirituous liquor, and that the increase in drinking was certainly not more than commensurate with the increase in number of the drinking classes. The tea districts are surrounded by foreign territory, and foreign outstills pour their contraband liquor across the British frontier at half or even a quarter the price at which it is obtainable from the licensed shops. In such cases it is probably true that from want of licensed facilities for obtaining liquor there has been a great deal of illicit manufacture and smuggling. At the same time it is obvious that unnecessary shops must not be retained. It is drunkenness which the Government desires to put down rather than the moderate use of liquor. If shops are too far off from a tea garden, it is probable that the coolies will get drunk on every occasion of a visit. The problem is to place them not too near and not too far off, and especially (as Mr. Westmacott has pointed out) not in such a position as to suggest drinking to anybody. In deference to the objection of certain tea associations, the selection of sites recommended by the local authorities has in some cases been abandoned, and special arrangements have been sanctioned to prevent the importation of smuggled liquor.

Country rum, &c.

15. The revenue from country rum has fluctuated in recent years, as the following figures will show:—

	Rs.
1885-86	77,091
1886-87	1,08,111
1887-88	88,885
1888-89	72,851
1889-90	1,00,675

The increase in the past year is principally due to the reduction in the rate of duty from Rs. 5 to Rs. 4 per gallon London-proof. At first this led to a falling off in the receipts, but afterwards it resulted in a largely increased consumption which, with a diminished duty, gave an increased revenue. The consumption increased from 24,318 gallons to 44,535 gallons, entirely in the metropolitan area. Of this increase no less than 13,620 gallons is due to rum consigned from Shahjehanpore. The total of Shahjehanpore rum consumed in Bengal during the year is 28,770 gallons, and the duty on this being credited locally is not shown in the Bengal excise accounts. The revenue derived from license fees for selling imported spirits and wines has again fallen from Rs. 2,21,453 to Rs. 2,14,090. Under tari the revenue has risen from Rs. 7,88,901 to Rs. 8,26,314. The revenue derived from licenses for the sale of puchwai increased from Rs. 2,15,191 to Rs. 2,32,682.

Ganja.

16. The statistics of ganja during the past three years are as follows:—

	Number of shops.	Consumption.	Revenue.
		Mds.	Rs.
1887-88 ...	... 2,949	6,550	22,45,020
1888-89 ...	... 2,922	6,413	23,18,353
1889-90 ...	... 2,819	6,101	22,59,690

The decrease in consumption is satisfactory, and although there is during the past year a small decrease also in revenue, it is to be observed that the receipts are greater than those of 1887-88 and of all previous years. The report on the subject of Gurjat ganja, to which allusion is made by the Board and the Excise Commissioner, is awaited by Government.

Opium.

17. The consumption of abkari opium decreased from 1,925 to 1,905 maunds, and the revenue from Rs. 20,08,134 to Rs. 19,59,486. The largest decrease occurred in the Chittagong district, and is attributed to the more successful prevention of smuggling into Arracan. The Excise Commissioner enumerates several important cases of opium-smuggling detected during the year.

Offences against the excise laws.

18. The number of arrests for offences against the excise laws was 4,441 against 3,879 in the previous year, and the number of convictions 3,747 against 3,324. There was a

decided improvement in the work of the excise officers, but a falling off in the number of convictions obtained by the police.

19. The acknowledgments of the Lieutenant-Governor are due to Mr. Westmacott for the zeal with which he has administered this important department, and the thoroughly loyal manner in which he has given effect to the policy of Government. His administration has been successful in reducing the consumption of spirits and drugs, and there can be no doubt that the results would have been more favourable from a revenue point of view if they had not been affected by the prevailing agricultural depression. The names of the officers selected by him for special mention for the excellence of their excise administration will be communicated to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE REPORT FROM THE BOARD OF REVENUE ON THE ROAD AND PUBLIC WORKS CESS OPERATIONS FOR THE CESS YEAR 1889-90.

FINANCIAL DEPARTMENT—ROAD CESS.

Darjeeling, the 29th September 1890.

RESOLUTION.

READ—

The Report from the Board of Revenue on the Road and Public Works cess operations for the cess year 1889-90.

During the year under review the cesses continued to be levied at the maximum rates in all the districts in which Act IX (B.C.) of 1880 is in force, except Backergunge, where the Public Works cess was levied at full rates and the Road cess at half rates The current demand for the year amounted to—

	Rs.
Road Cess	37,81,538
Public Works Cess	38,79,001
Total ...	76,60,539

2. In the subjoined table the figures for the past year are compared with those of the two preceding years:—

	Demand.			Collections.	Remissions.	Balances.	Percentage of balance on gross demand.
	Current.	Arrear.	Total.				
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1887-88 ...	76,13,146	16,61,553	92,74,699	75,35,113	16,498	16,98,409	18·3
1888-89 ...	76,19,896	17,20,662	93,40,558	74,86,777	20,925	17,98,942	19·2
1889-90 ...	76,60,539	18,04,134	94,64,673	77,54,684	76,885	16,58,728	17·5

The percentage of arrear collections on arrear demand was 76·8, that of current collections on current demand was 82·2, and that of total collections on current demand was 101·2. With a larger demand the collections have been larger, and the balances have been reduced. The item of remissions, however, shows a large increase, which is due to a sum of Rs. 65,896 having been written off in Burdwan as irrecoverable arrears of petty rent-free holdings.

3. In the following districts the arrear collections fell short of 90 per cent.:—

	Percentage of arrear collections on arrear demand.	Percentage of current collections on current demand.
Shahabad	40·7	85·9
Burdwan	43·4	83·7
Furreedpore	46·6	66·4
Bankoora	47·2	81·
Khoolna	65·	81·2
Moorshedabad ...	71·8	92·5
Gya	73·8	74·1
Mozufferpore	74·6	61·7
Jessore ...	75·4	74·9
Hooghly	77·1	66·3
Bhagulpore	80·	88 4
Cuttack	80·5	90·
24-Pergunnahs ...	82·8	80·4
Durbhunga	83·4	86·
Pooree ...	86·	97·6
Sarun	86·7	72·8
Patna	89·3	75·7

The districts of Furreedpore, Gya, Mozufferpore, Jessore, and Hooghly show short collections of both current and arrear demands. The indifferent results in Furreedpore are primarily attributable to the confused state of the revenue-roll which facilitated the frauds noticed in last year's report. In Gya the short collections are said to be due to the postponement of the date of new assessment from the 1st April 1889 to the 1st April 1890, and to the adoption of the tehsildari system under section 99 of Act IX (B.C.) of 1880 in preference to the certificate procedure. The unfavourable results in Shahabad are ascribed to the lax system of realizing arrears. The Collector should adopt, as suggested by the Board, stringent measures to reduce the increasing balance. A large arrear balance has become chronic in Burdwan since the assessment of its rent-free tenures. Measures have not been adopted to remedy the defective system of keeping accounts which hitherto retarded the collections, and the realizations during 1889-90, though far from satisfactory, show an improvement on the percentage of previous years. In Bankoora heavy defaults were made as usual by the sardar ghatwals, and to prevent this the assessment of the ghatwali lands is being revised. The short percentage of arrear collections in Khoolna and Moorshedabad is attributed to the accumulation of the arrears of three years to be recovered from rent-free holdings under section 70 of the Cess Act.

4. In the following districts, though the arrear collections were not less than 90 per cent., the current collections fell below that amount:—

	Percentage of current collections on current demand.	Percentage of arrear collections on arrear demand
Chumparun	68·	99·8
Lohardugga	72·2	96·9
Monghyr	73·9	90 5
Dacca	78·3	90·
Midnapore	79 1	90·
Pubna	80·8	93 5
Rajshahye	81·8	98·5
Dinagepore	81·9	99·8
Backergunge	82·	94·3
Maldah	87·3	99·8
Balasore	88·1	95·
Tipperah	89·3	95·9
Manbhoom	89·8	99·6

In Chumparun, Lohardugga, and Monghyr the short current collections are ascribed to the 15 days' grace allowed for payments, and in Dacca to the difficulty of realizing the dues from holders of petty estates. In Midnapore the cesses due from some large zemindaries were not paid until the last coercive measures under the Public Demands Recovery Act had been resorted to.

5. Arrears to the extent of Rs. 1,06,435 have become barred by limitation. The total amount barred in Burdwan was calculated to be Rs. 1,63,267, out of which Rs. 65,896 were remitted during the year, and there still remain

Rs. 97,371 which will be written off as soon as pending objections to the original assessment have been disposed of.

6. The collections on both the current and arrear demand exceeded 90 per cent. in 11 districts—

	Percentage of arrear collections on arrear demand.	Percentage of current collections on current demand.
Hazaribagh	100·	97·1
Singbhoom	100·	99·9
Bogra	99·8	93·5
Purneah	99·2	95·6
Nuddea	98·2	92·1
Noakhally	98·	94·
Beerbhoom	97·5	91·3
Julpigoree	95·7	93·2
Mymensingh ...	94·7	92·5
Rungpore	93·9	90·6
Chittagong	92·3	92·9

Darjeeling had no arrears to collect, and realized its current demand in full. In these 12 districts the results are satisfactory and reflect credit on the officers concerned.

7. The number of certificates filed for the recovery of arrears was 71,076, which, with the 35,260 pending on the 31st March 1889, gave a total of 106,336 for disposal. Of these, 73,115 were disposed of, leaving 33,221 pending at the end of March 1890. The outturn of work compares favourably with that of the previous year. Sales actually took place in only 583 cases, of which 54 were subsequently cancelled. The number of institutions was smallest (428) in the Chota Nagpore Division and largest in the Burdwan, Patna, and Presidency Divisions—20,018, 14,560, and 10,921 respectively. In Gya and Mozufferpore the certificate procedure was set aside in favour of the tehsildari system under section 99 of the Cess Act, with the result that collections fell off. As remarked by the Commissioner, more active measures should have been taken, or certificates should have been filed to realize the Government dues.

8. Complete revaluations of the district of Shahabad, resulting in an increase of Rs. 1,05,477 in the annual demand, and of Gya, resulting in an increase of Rs. 50,423, were brought to a close during the year. Partial valuations and revaluations were completed in the Khulna, Backergunge, Mymensingh, Maldah, Bogra and Tipperah districts.

9. The names of the Deputy Collectors who have been favourably noticed by the Board will be communicated to the Appointment Department.

ORDER.—Ordered that a copy of the Resolution and of the Board's report be submitted to the Government of India, Finance and Commerce Department, for information.

Ordered also that a copy of the Resolution be forwarded to the Board of Revenue, and that copies of the Resolution, and of the Board's report, be forwarded to the Appointment and Revenue Departments for information.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE CUSTOMS DEPARTMENT FOR THE YEAR 1889-90.

FINANCIAL DEPARTMENT—CUSTOMS.

Darjeeling, the 29th September 1890.

RESOLUTION.

READ—

The Report on the Administration of the Customs Department for the year 1889-90.

Customs receipts.

The following statement shows the gross and net customs duty, inclusive of the duty on imported salt, collected in Bengal during the last five years :—

	1885-86.	1886-87.	1887-88.	1888-89.	1889-90
	Rs.	Rs.	Rs.	Rs.	Rs.
Import duty (excluding duty on salt) ...	13,99,392	15,05,764	14,56,057	21,61,242	24,45,683
Import duty on salt ...	1,80,35,154	1,94,85,102	1,85,30,955	2,27,28,687	2,25,83,827
Export duty ...	18,10,621	15,80,340	21,37,248	17,09,406	16,08,145
Total gross duty ...	2,12,45,167	2,25,71,206	2,21,54,260	2,65,99,335	2,66,37,955
Refunds and drawbacks—					
Imports ..	2,29,064	2,48,992	2,46,759	2,81,544	3,12,697
Exports ...	62,202	40,363	81,742	84,930	31,606
Total ...	2,91,266	2,89,355	3,28,501	3,66,474	3,44,303
Total net duty ..	2,09,53,901	2,22,81,851	2,18,25,759	2,62,32,861	2,62,93,652

Since the year 1882-83, when the reduction of salt duty and the remission of all import duties, except those leviable on arms, ammunition, liquors and opium, came into operation, there have been considerable fluctuations in the revenue, but the increase in 1888-89 was maintained in the year under review. This is entirely due to the levy of a duty of 6 pies per gallon on mineral oil, the importation of which continues to expand in a remarkable manner, thus amply justifying its selection as a suitable article for taxation. Import duties levied on other articles than petroleum, such as wine and spirits, show a general falling off. The decrease in export duty is due to a falling off in the rice trade.

Value of trade.

2. There was a fall in the value of imports (exclusive of Government transactions) from Rs. 32,51,37,468 to Rs. 31,56,52,561, principally in piece-goods. The export foreign trade, exclusive of treasure, shows an advance from Rs. 37,82,25,789 to Rs. 39,67,26,895, which is due chiefly to the high prices obtained for rice, jute, linseed, and raw silk. Taking exports and imports together, the total value of the trade of the Province increased by nearly a crore of rupees, or from Rs. 78,17,13,654 to Rs. 79,12,31,540.

3. The value of imports on Government account declined from 100 lakhs to 97½ lakhs, and was noticeable under almost every head. There was, however, a marked increase of 17½ lakhs in the value of materials required for State Railways. The exports made on Government account amounted to only 2¾ lakhs, against 4 lakhs in the preceding year, and consisted mostly of copper coin for Ceylon and the Straits Settlements.

4. As usual, the bulk of the trade is carried on by the United Kingdom, the proportion of the trade absorbed by that country being no less than 61·71 per cent. of the whole trade of Bengal. This percentage is, however, less than that of the preceding ten years. The second place is occupied by China, due to opium transactions (10·1 per cent.), and next stands the United States (6·47 per cent.). The trade with Germany continues to show a considerable increase.

Calcutta.

Foreign trade.

5. The proportion of the foreign trade of Calcutta carried through the Suez Canal to the total foreign trade of Calcutta declined from 65·8 per cent. in 1888-89 to 63·7 per cent. in the year under review. The decrease is attributed to the falling off in the value of cotton manufactures imported from the United Kingdom. The following statement compares the imports and exports through the Canal during the last five years :—

	Imports.	Exports.	Total.
	Rs.	Rs.	Rs.
1885-86 ...	18,25,69,465	16,02,59,864	34,28,29,329
1886-87 ...	21,49,95,033	17,28,69,556	38,78,64,589
1887-88 ...	20,52,71,237	18,17,29,261	38,70,00,498
1888-89 ...	23,45,06,444	18,51,90,952	41,96,97,396
1889-90 ...	21,80,03,096	19,24,35,956	41,04,39,052

6. The number of steam vessels which passed through the Suez Canal on their way to and from Calcutta without touching at another British Indian port decreased from 305 to 294, and the tonnage from 604,094 to 586,199 tons. The total number of arrivals and departures from foreign countries is given in the following statement:—

	1888-89.		1889-90.	
	No.	Tonnage.	No.	Tonnage.
Steam vessels ...	489	899,667	521	961,104
Sailing „ ...	603	877,853	554	824,724
Native craft	49	6,045	42	6,111

It must be understood that these figures do not include all vessels engaged in the Foreign trade of Calcutta, but only those which arrive here and leave the port without touching at any other Indian port.

Imports.

The total value of imports shows a decrease of Rs. 59,34,038 as compared with that of the previous year. The value of cotton manufactures declined by Rs. 142 lakhs, machinery 12½ lakhs, silk 9⅕ lakhs, umbrellas 8⅓ lakhs, horses 4¾ lakhs, liquors 3½ lakhs, drugs 2¾ lakhs, fruits and unrefined sugar each 2 lakhs. On the other hand, the import of metals shows an advance of 81 lakhs, oils 34¾ lakhs, refined sugar 13⅓ lakhs, spices and railway plant and rolling-stock each 7⅓ lakhs, woollen manufactures 3⅔ lakhs, and matches 3½ lakhs.

7. The statement below shows the values of the principal articles imported into Calcutta during the last two years:—

	1888-89.	1889-90.
	Rs.	Rs.
Cotton goods	14,54,76,859	13,12,43,435
Metals	1,65,31,166	2,46,68,410
Oils	85,07,955	1,18,08,390
Machinery	86,30,301	74,07,618
Salt	76,35,910	73,38,054
Woollen goods	66,41,405	70,11,664
Liquors	52,39,340	49,00,323
Apparel	40,35,825	41,33,901

The trade in cotton piece-goods was not remunerative: large stocks were in hand, while at the close of the year money was scarce and the Bank rate of interest very high. It is reported that the trade of native houses continues to expand, and was larger than in any previous year. The very large increase in the import of metals is due to the trade righting itself after the collapse of the Copper Syndicate. The increase in petroleum oil is entirely from the United States, and there was a decrease both from the United Kingdom and from Russia. Although there is a decrease in machinery, the figures of the year are far in excess of those in any year previous to 1888-89. Under the head of Liquors there is an increase in ale, beer and porter, a large decrease under Spirits, and a very small decrease under Wines and Liqueurs. Regarding the importation of spirits, Mr. Scobell Armstrong, the Collector of Customs, observes:—

"Brandy has declined by 13½ per cent., which, considering the nature of much of the liquor imported under this name, is not surprising. A considerable portion of it has very little resemblance to brandy, except perhaps in colour. It is the commonest German spirit got up to look like brandy and comes chiefly from Humburg and Antwerp, and the average

declared value is from Rs. 2-8 to Rs. 3 per imperial gallon. The best brandies come in bottle through the United Kingdom.

"Gin has again declined, and the taste for it seems to be steadily falling off.

"The imports of whisky show a very slight advance in quantity with a considerable decline in value, and there was no accumulation of stocks in bond. The quality of the established marks and brands continues the same, for it would not pay to tamper with them, and so risk the loss of the trade; but with the commonest sorts of whisky, as of brandy, the tendency in quality is downwards. A quantity of it is inferior German spirit made from anything but malt, I believe principally from rice, and coloured and flavoured to represent whisky. Nearly the whole of the whisky imported came from or through the United Kingdom, but there have been some importations of high class whisky from Australia.

"Rum, which was formerly an item of importance, has fallen away to insignificant figures, being only 910 gallons in the past year, against 9,047 gallons in 1888-89. China formerly sent the largest quantity of this spirit to Calcutta, but last year none at all was received from that country. The cheap common spirit from Germany has apparently killed this trade."

Among minor items it may be observed that the trade in umbrellas has declined owing to accumulation of stock. The value of matches imported now amounts to Rs. 7,39,000, and the quantity is estimated by Mr. Armstrong to be about 152 millions of boxes. Most of these are manufactured in Sweden and Norway, and the wholesale value is about Rs. 35 per case of 50 gross. With this low price the matches of Bryant and May, which are of a more substantial nature, cannot compete.

8. The following statement gives the value of the principal articles of Indian produce and manufacture exported in 1888-89 and 1889-90:—

Exports.

	1888-89.	1889-90.
	Rs.	Rs.
Raw jute	6,94,28,984	7,26,67,026
Opium	6,41,48,256	6,37,25,170
Tea	5,16,52,620	5,12,39,079
Oilseeds	3,57,89,078	4,13,04,984
Indigo	2,73,46,873	2,49,05,266
Gunny-bags	2,33,35,337	2,31,92,559
Rice	2,07,02,266	2,48,74,668
Hides and skins	1,90 82,457	1,84,21,934
Wheat	1,08,24,635	60,11,810

There was a slight falling off in the export of jute, although prices ruled higher than in the previous year, but the deficiency of Calcutta was more than supplied by the shipments from Chittagong, which increased to the extent of 222,846 cwts. The export of tea declined slightly in value, but advanced in quantity, being 101,750,725lbs. in 1889-90, against 95,749,163lbs. in 1888-89. The cost per pound last year was 8 annas 1 pie, against 8 annas 6 pies in the previous year. The following table shows the production of tea in the different districts during the last two years:—

	1888.	1889.
	lbs.	lbs.
Assam ...	41,865,499	42,030,564
Cachar and Sylhet ...	27,343,505	29,750,054
Darjeeling, Terai, and Dooars ...	18,950,822	20,497,857
Chittagong and Chota Nagpore ...	1,148,458	1,378,920
Dehra Dun, Kumaon, and Kangra ...	4,000,000	4,500,000
Private and native gardens ...	3,000,000	4,500,000
Total ...	96,308,284	102,657,395

The estimated outturn for the current year is no less than 115,000,000lbs.

The importations of tea into the United Kingdom during the last two years are—

	1888.	1889.
	lbs.	lbs.
Indian	92,387,000	96,693,000
Ceylon	20,325,000	31,191,000
China, &c.	109,285,000	93,208,000

It cannot be said that any material progress has been made in opening out new markets for Indian tea. Australia is the only country where Indian tea is

being rapidly taken; the increase last year was over half a million pounds, or 18½ per cent. In America the export is falling off, and China tea still finds favour in Russia. In India itself the efforts to popularise tea have hitherto failed.

Although the value of rice exported last year shows an increase, the quantity was less owing to a shorter crop. Ceylon continues to hold its first place as the consumer of Bengal rice, and the United Kingdom stands next.

There was a further large fall in the export of wheat, from nearly 3 million cwt. to a little over 1½ millions. The continent of Europe has received nearly the whole of its Indian wheat from the Western side of India. The total quantity of Indian wheat sent to the United Kingdom was 9,217.332 cwt., while Russia exported 21,321,628 cwt. and the United States 17,061,250 cwt.

There was a small increase in the quantity of indigo exported, but the average declared value was the lowest ever recorded in the Custom House.

The trade in raw cotton, which had declined in 1888, showed an improvement of about 20½ per cent. The increase was entirely in the export to continental countries.

Treasure.

9. The import of treasure during the last year decreased by Rs. 31,38,497, but while silver declined by nearly 50 lakhs, the import of gold advanced by 18½ lakhs.

Coasting trade.

10. The value of the coasting or interportal trade with Calcutta declined in 1889-90 by about 52 lakhs, and is observable both in the export and import of Indian produce and of foreign merchandise.

Chittagong port.

11. The value of the trade of Chittagong, which had fallen off during 1888-89, greatly augmented during the year under review, and amounted to Rs. 3,16,96,703, which is the highest on record. The enormous expansion of the trade in raw jute has materially contributed to the prosperity of this port.

The Orissa ports.

12. The following table shows the trade of the Orissa ports for the past year as compared with that of the previous year :—

	Balasore.		Cuttack.		Pooree.	
	1888-89.	1889-90.	1888-89.	1889-90.	1888-89.	1889-90.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Foreign	1,32,209	4,37,513	8,23,691	13,15,803	39,386	39,842
Coasting	95,35,286	93,03,035	1,68,554	4,39,940	20,426	1,76,934

It will be seen that there has been a considerable increase in the trade of Cuttack and Pooree.

Naraingunge.

13. Naraingunge was in November 1889 declared to be a Customs port for the shipment and landing of goods and a warehousing port. The year was a prosperous one, and the total value of trade was Rs. 1,14,90,150, consisting principally of jute consigned to Chittagong

14. The Lieutenant-Governor's thanks are due to the Board of Revenue for their supervision of the Customs Department during the year, and in particular to Mr. Armstrong for his full and interesting report and for his efficient administration of the Calcutta Customs Office. The services of the following officers are favourably noticed by the Board :—Messrs. Kilby, Amos, Bonnaud, Bradbury, and Burrup of the Calcutta office, and Mr. Warden, Collector of Customs at Chittagong. Their names, with the remarks recorded, will be communicated to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE INCOME-TAX IN BENGAL FOR THE YEAR 1889-90.

FINANCIAL DEPARTMENT.—INCOME-TAX.

Darjeeling, the 30th September 1890.

RESOLUTION.

READ—

The Report of the Board of Revenue on the financial results of the Income-tax Administration for the year 1889-90.

Previous annual reports have shown collections up to the end of the year, and all other operations up to the 30th June. The present report deals only with operations up to the end of March, a change which has enabled the report to be submitted at a much earlier date than was formerly possible. The scheme of amalgamating the posts of Excise Inspector or Sub-Inspector and Excise Assessor continued in operation in 20 districts during the year under review, but has since been discontinued. Service in the Income-tax Department was during the year declared permanent and pensionable, and this step, together with the separation of excise and income-tax establishments, has led to a complete revision of the assessing agency.

Results of the tax.

2. The total demand for the year under all parts of the Act stood at Rs. 44,89,476 against Rs. 42,41,806 in the previous year, while the total collections, exclusive of advance payments and excess collections, were Rs. 41,44,257 against Rs. 38,88,388. The receipts, charges, and net revenue are compared as follows:—

	Receipts.	Charges.	Percentage of charges.	Net revenue.
	Rs.	Rs.	Rs.	Rs.
1888-89	39,11,616	1,56,470	4	37,55,146
1889-90	41,66,798	1,66,778	4	40,00,020
Increase ...	2,55,182	10,308	..	2,44,874

The net revenue shows an increase of 6·1 per cent. against 5 per cent. in the previous year.

Demand, collections and balances.

3. The amount originally assessed was Rs. 39,38,829, which was reduced to a final demand of Rs. 37,12,130 against Rs. 35,53,678 in 1888-89. By far the larger portion of the increase was as usual contributed by Calcutta, but it was shared by every division except Chittagong and Bhagulpore. The percentage of collection on the final demand was the same as in the previous year, viz., 92·5. In six districts the entire demand was collected within the financial year. The outstanding balance on account of the tax, with penalties and costs, amounts to Rs. 3,45,219, of which Rs. 1,46,143 are reported to be good, Rs. 1,31,162 doubtful, and Rs. 67,914 irrecoverable.

Assessments.

4. There was a falling off of 6,893 in the number of villages visited by the Assessors, the decrease being attributed in many cases to their desire to concentrate their attention on towns and marts, which offer a more fruitful field for enquiry. In Calcutta a marked improvement appears in the number of streets visited by the assessors. The number of persons finally assessed was 102,265 against 102,407, the percentage of exemption on revision being 3·1 against 4·01 in 1888-89.

Objections.

5. The petitions of objection numbered 15,027 against 16,770 in the previous year. The number of successful objections was 6,361 against 6,934, or 42·3 per cent. against 41·3 per cent. in 1888-89. The percentage was highest in Maldah (60·8), Chittagong (55·2), Calcutta (54·6), Patna (53·7) and Tipperah (52·1).

Incidence of tax.

6. The average incidence of the tax on the whole population of the province (excluding the assessments on salaries of Government servants and on Government securities) was Re. 1 to every 17·9 persons, and excluding Calcutta the average incidence in the districts was Re. 1 to every 36 inhabitants. The proportion of the number of persons assessed to the whole population was 1 to 650. The Board have furnished in their present report some interesting statistics illustrating the proportion of

the tax contributed by Calcutta and the whole of the province under the present Act and under former Income-tax and License-tax Acts. Of the entire amount of the present tax nearly one-half is paid in the metropolis alone. The productiveness of the tax bears a larger proportion in Calcutta under the present Income-tax Act because agricultural incomes are exempted under it and the great bulk of large incomes due to other sources than agriculture is to be found in Calcutta.

Coercive measures.

7. There has been a steady decline in the number of cases in which coercive measures were necessary for the recovery of the tax. In only 267 cases out of 102,265 assessments was actual sale resorted to. The number of sales was comparatively large in Rungpore (51), Purneah (24) and Singbhoom (21). The percentage of warrants issued has declined from 11·9 in 1886-87 and 6·3 in 1888-89 to 4·6 in 1889-90. In Calcutta distress warrants were issued in only 112 cases against 1,243 in the previous year.

Expenditure.

8. The expenditure of the year amounted to Rs. 1,66,778 against Rs. 1,56,470 in the previous year, while the percentage of the cost on the net collections stood at the same figure as in 1888-89, viz., 4·02.

Classification of income.

9. The largest share of tax paid (Rs. 5,73,728) was, as usual, from assessees under class I (incomes from Rs. 500 to Rs. 750); Rs. 5,19,082 were paid by assessees in class XV (Rs. 1,00,000), Rs. 4,84,807 were paid by assessees in class VIII (Rs. 2,500 to Rs. 5,000), and Rs. 4,00,999 by assessees in class IX (Rs. 5,000 to Rs. 10,000). The lowest contribution was from class XIII (Rs. 40,000 to Rs. 50,000). Classified according to trades and professions, the largest contributions to the tax were the following :—

			Rs.	Percentage of total collection.
Class 44.	Money-lending and changing	...	5,72,092	14·6
„ 1.	Salaries paid by Government		3,93,059	10
„ 45.	General merchants ...	...	3,63,550	9·3
„ 69.	Dealers in other articles	...	1,96,671	5
„ 46.	Piece-goods merchants	...	1,59,973	4·1
„ 9.	Clerks paid by companies, &c.	...	1,52,828	3·9
„ 85.	Taxable estate-holders	...	1,28,081	3·2
„ 35.	Barristers, &c. ...	...	1,23,254	3·1
„ 82.	House proprietors ...	...	1,16,050	2·9
„ 7.	Managers, &c. ...	...	1,06,135	2·7
„ 22.	Jute and hemp ...	...	1,05,606	2·7
„ 47.	Grain merchants ...	...	1,04,677	2·6

10. The Board have little to add to what has been said in previous reports on the subject of popular feeling in regard to the tax. That the tax continues to be unpopular is notorious; but they observe that a larger revenue is annually obtained with less friction and less necessity for having recourse to coercive measures.

11. The names of the Deputy Collectors specially reported by the Board as having done good service will be communicated to the Appointment Department. Mr. Kilby, the Collector of Income-tax in Calcutta, administered the tax with marked vigour and success. The careful supervision exercised over this Department by the Board merits the acknowledgments of Government.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the Board's Report, be submitted to the Government of India, Finance and Commerce Department, for information, and that a copy of the Resolution be forwarded to the Board of Revenue.

Ordered also that extract paragraph 11 of the Resolution and extract paragraph 57 of the Report be forwarded to the Appointment Department for information.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE CHITTAGONG HILL TRACTS FRONTIER FOR THE YEAR 1889-90.

POLITICAL.

Darjeeling, the 29th September 1890.

READ—

Letter from the Commissioner of Chittagong, No. $\frac{855 H.T.}{VI—12}$, dated the 15th July 1890, forwarding the Report on the Administration of the Chittagong Hill Tracts Frontier for the year 1889-90.

The operations of the Chin-Lushai Expeditionary Force have been brought to a successful termination. Of the captives taken away in the Chengri Valley and Chima Valley raids, 7 escaped from the hands of the raiders and 75 were recovered by ransom or otherwise. But the expedition dealt with the northern tribes and had no effect on the Shendoos living to the south of Fort Lungleh. Two of their parties entered our territory during the past year while the expedition was in progress. On receipt of information patrols were immediately despatched in search of them. The first party could not be found, but traces of a large encampment said to have been occupied by them were visible in the neighbourhood of the Chanda village. The second party was discovered within 2½ miles of the Pyramid Hill post, but they beat a precipitate retreat as soon as they found themselves pursued. There is little doubt that they crossed the border for raiding purposes, which they would have carried out had circumstances favoured them. The complicity of these tribes in some of the raids of previous years, the necessity of securing the release of the persons then taken prisoners by them and still held in captivity, and their general raiding propensities, render it imperative to adopt measures for exercising control over the villages inhabited by them. This question forms the subject of a separate correspondence.

There was also a scare in the Upper Chengri Valley in the month of August, due to a rumour that Lienpunga was preparing for another raid. The Joormorong outpost was re-occupied by the frontier police in consequence, and confidence was soon restored among the villagers.

2. The military expedition prevented the holding of the annual durbar, but Captain Shakespear, the Assistant Political Officer, held a meeting of the Mulienpui Chiefs after the close of the year.

3. There was a considerable falling off in the export and import of almost all kinds of articles of trade on the frontier, but this is attributable to the unsettled condition of the country due to the expedition, and the figures of the past year do not, as observed by the Commissioner, afford an indication of the future progress of trade. The trade in salt is already more extensive than before, and the further improvement effected in the communication with the Demagri Bazar will facilitate the sale of other commodities in much larger quantities in future. It is satisfactory to note that during the past year 3,663 persons belonging to the trans-frontier tribes resorted to the Demagri Bazar, against 2,949 in the preceding year. From April to August the attendance was very small as compared with that of the corresponding period in previous years, the hillmen being then in a state of doubt and uncertainty as to the consequence of the expedition of 1888-89; but through the exertions of Mr. Murray, the Assistant Political Officer at Lungleh, for which he deserves credit, that feeling gave way to one of security long before the commencement of the second expedition.

4. Besides the permanent posts at Demagri, Burkal, Ruma, and the newly-established one at Lungleh, three temporary posts at Pyramid Hill, Joormorong and Keokradong were occupied during the year. The frontier force performed their very arduous duties in connection with the expedition cheerfully and well. General Tregear, who commanded the Chittagong column of the expedition, was fully satisfied with their work, and recorded the following remarks in the report submitted by him:—

"During the last expedition I was able to make very favourable mention of the men composing the Chittagong Frontier Police Battalion under the

command of Mr. C. S. Murray, District Superintendent of Police. During this expedition 50 men accompanied the Northern column, and 100 under Mr. S. V. Tayler, Assistant Superintendent of Police, were employed with the advanced party and did excellent work. They are the most useful and willing men I should ever care to serve with. Besides being keen soldiers, they can build huts, thatch roofs, construct rafts, and, in fact, put their hands to anything, and are accustomed to carry all their own kits." It is, however, to be regretted that the severe and fatiguing duties and exposure to which they were subjected increased the number of casualties from 16 to 51 under the heads of discharge, retirement, and resignation. A considerable number of men appear to have resigned in consequence of an order prohibiting the grant of leave except on medical certificate, but this restriction has since been withdrawn and leave is now freely granted. The question of the reorganization of the frontier force is now under consideration. The expenditure incurred in provisioning the force amounted to Rs. 52,614, against Rs. 33,051 in the previous year. The increase is due to the fact that the men garrisoning distant outposts were not, as usual, brought in to Rangamati during the rainy season of the past year.

5. The coolie corps, mainly composed of recruits from the Sonthal Pergunnahs, was of great service during the expedition. The men were first employed in improving a portion of the road from Rangamati to Peskisurra, but the work had to be stopped before much progress had been made, as they were required to work on the Burkal tramway in consequence of the desertion of the local coolies owing to an outbreak of cholera.

6. The Commissioner's remarks on the character of officers will be noted in the Appointment Department.

ORDER.—Ordered that a copy of the Resolution be forwarded to the Commissioner of Chittagong for information and for communication to the Deputy Commissioner of the Chittagong Hill Tracts.

Ordered also that a copy of the Resolution and a copy of the Report be submitted to the Government of India in the Foreign Department.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE TRIBUTARY AND POLITICAL STATES OF THE CHOTA NAGPUR DIVISION FOR THE YEAR 1889-90.

POLITICAL.

Dated Calcutta, the 1st October 1890.

READ—

The Report on the Administration of the Tributary and Political States of the Chota Nagpur Division for the year 1889-90.

Read also—

The Reports for 1887-88 and 1888-89 and the Resolutions recorded thereon.

The present report is submitted by Mr. W. H. Grimley, who was in charge of the Chota Nagpur Division throughout the year, except from the 1st to the 27th April 1889. The Commissioner's tour in the Tributary States was unavoidably of short duration. It being the first year of his office, the district headquarters claimed prior attention, and at the same time the Kol agitation prevented his moving far from head-quarters. But although the Commissioner was only able to visit the States of Udaipur, Sirguja and Jashpur during the year under review, he had an opportunity of seeing the Chief of Bonai in Ranchi in May and June, and the Raja of Seraikela and the Thakur of Khursawan were met both at Chyebassa and Ranchi; while during the course of the tour Mr. Grimley was able to inspect the scene of some recent troubles with the Kurwas and to give some valuable advice for the future prevention of raids on civilised villages.

2. The rainfall was sufficient and the crops generally good, but the influx of workmen employed in the Bengal-Nagpur Railway caused an unusual demand for all articles of food, and prices ruled high in consequence.

3. The general health of the people was good in all the States, except Sirguja and Gangpur. Small-pox carried off 1,144 persons in Sirguja, and cholera was fatal in 101 cases in Gangpur and 85 cases in Sirguja. There was a slight falling off in the number of vaccinations, and some of the Chiefs still repeated in the past year the old established objections to this operation, but their prejudices are said to have been overcome, and vaccinators will probably be less hindered in their work in future. The statistics of cattle disease are not very trustworthy, but the report of its general prevalence is undoubtedly true. With a view to diminish the mortality, instructions have been issued by the Maharaja for the segregation of the stricken animals, and by the Commissioner for the prompt burial of cattle that die of the disease and for the destruction of their hides. It is hoped that the measures proposed to be taken during the ensuing grazing season will have the desired effect.

4. The Lieutenant-Governor regrets to observe that education, which has always been backward, has further retrograded during the year under review. Although six additional schools were established, the number of pupils in the majority of the States was smaller than in the previous year. The total number in all the States was 1,219 against 1,329 in 1888-89. His Honour would be glad to see other Chiefs following the excellent example of the Raja of Udaipur in this respect. It is not clear why the schools in Khursawan and Seraikela should receive assistance from the primary school grant of a British district.

5. No new roads were constructed during the year, but the existing lines of communication were kept in repair. The territories of many Chiefs are now being rapidly brought into communication with other parts of India by the construction of the Bengal-Nagpur Railway, and the efforts that are being made to open out the mineral wealth of the country will soon make the question of road construction one of paramount importance. Sir Steuart Bayley hopes that the Commissioner will lose no opportunity of impressing on the Chiefs the importance of improving existing means of communication within their States, and will endeavour to obtain for them any assistance which they may require in the selection of suitable lines of road.

6. There is but little to remark in the figures of Sessions trials, and most of the important cases have come before the Lieutenant-Governor either for confirmation of the sentences passed or in appeal. The fines imposed rose from

Rs. 2,874 to Rs. 3,043, and Rs. 2,522 were realized against Rs. 2,161 the year before. Any tendency to impose fines as a source of revenue rather than as punishments must be watched and checked. The number of escapes from custody is very large, and His Honour hopes that the Commissioner will continue his enquiries into the cause of them, and take such measures as he may find practicable for minimising the chance of their recurrence in the future. The mortality in the Sirguja Jail was heavy and calls for some explanation.

7. The statistics of crime are given in the appendices to the report, which show also the averages of the preceding five years. The number of offences against the person increased in Gangpur and Khursawan, and there was a larger number of theft cases in the former State and in Changbhakar than in 1888-89. House-breaking cases rose from 6 to 14 in Udaipur.

8. In paragraphs 34 to 40 an account is given of the principal matters which engaged the Commissioner's attention in connection with the Native States during the year under review. Most of these have been the subject of special reports to Government in the course of the year, and have been already reviewed by the Lieutenant-Governor; but His Honour would be glad to hear further on the subject of the establishment of a mission station at Ghoghor in Gangpur where the Raja is said to have stopped the building of the station, although he had himself given land as a site for it. The Lieutenant-Governor is glad to record his high appreciation of the prudence and tact displayed by Mr. Grimley in bringing to a satisfactory termination the long-standing and complicated disputes between the Raja of Bonai and the Gond Chiefs, and in dealing with the Gohandals of Khursawan. Great credit is also due to Mr. Grimley for the measures taken by him to quell the disturbance made by the Jashpur Kurwas.

9. The State of Khursawan, which has been successfully managed by Government during the minority of the Thakur, has now passed into the hands of its Chief, and Sir Steuart Bayley has much reason to hope that this young ruler will prove a successful and prudent administrator.

10. Sir Steuart Bayley has read with pleasure the Commissioner's favourable comments on the Chiefs, the majority of whom have maintained their reputation as judicious and wise rulers, and all of whom have generally followed the advice given to them by the Commissioner on difficult questions. Special credit is due to the Maharaja of Sirguja and his Dewan, Maulvi Jaffir Ali Khan, and to the Rajas of Udaipur and Jashpur.

ORDER.—Ordered that a copy of the Resolution be forwarded to the Commissioner of Chota Nagpur for information and guidance, and that a copy of the Resolution, together with a copy of the Report, be submitted to the Government of India, in the Foreign Department, for information.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 4th October, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	Burdwan Divn.		
1	Burdwan, Oct. 4, '90	3·05	Weather—rainy and seasonable. Prospects of crops good. Prices of common rice :—
	Culna ...	3·70	
	Cutwa ...	7·09	
	Ranigunge ...	2·12	
			Srs. Burdwan ... ... 16 / Culna ... ... 16 / Cutwa ... ... 16¼ / Ranigunge ... ... 16 } per rupee.
2	Bankoora ,, 4, '90	1·27	Weather—warm and bright. Rains ceased since 30th ultimo. Prospects of crops continue good. Common rice selling at 19 seers per rupee at Sudder and 17 seers at Bishenpore.
3	Birbhum ,, 4, '90	2·58	Good rain. Rice crop is in quite perfect order, and may now be looked upon as safe. A 20-anna crop may be confidently expected. Prices of rice still keep high, having from 16¼ to 18 seers per rupee.
	Rampore Haut ...	7·19	
4	Midnapur ,, 4, '90	1·52	Weather—bright but cloudy at times. Recent heavy rain has considerably improved prospects of standing crops throughout the district. Prices of common rice :—
			Srs. Sudder ... ... 15 / Ghatal ... ... 17 / Tumlook ... ... 15 / Contai ... ... 19 } per rupee.
5	Hooghly ,, 4, '90	7·14	Weather—alternately fair and stormy. *Aus* and jute nearly harvested with average outturn. Prospects of winter rice and sugarcane excellent. Prices of common rice :—
	Serampore ...	7·55	
	Jehanabad ...	1·09	
			Srs. Ch. Sudder ... ... 13 0 / Serampore ... ... 13 0 / Jehanabad ... ... 15 11 } per rupee.
	Howrah ,, 4, '90	5·12	Weather—seasonable. Standing crops benefited by heavy rain. Prospects of *amun* crop satisfactory. Price of coarse rice about 14 seers per rupee.
	Uluberiah ...	7·52	
	Central Districts.		
	Presidency Divn.		
6	24-Perghs. Oct. 7, '90	3·81	Weather—seasonable. Prospects of *amun* continue excellent except in the small flooded tract of the Bussirhat subdivision. Lands are being prepared for *rubbi* crops. Prices stationary. Relief in the form of rice, dál, &c., that was being issued to the destitute sufferers at the late floods has been wound up; but medical relief is being given and advances are being made for the construction of huts.
7	Nuddea ,, 4, '90	5·35	Weather—seasonable. Heavy rain fell during the early part of the week. *Kalai* sown on chur lands has been submerged by a fresh rise of the rivers and heavy rain. No change in the price of rice. Agricultural loans and charitable relief are being given.
	Kushtea ...	4·75	
	Meherpore ...	4·65	
	Chuadanga ...	5·80	
	Ranaghat ...	5·30	
8	Khoolna ,, 4, '90	0·32	Weather—bright and warm. Transplantation of *amun* nearly completed. Prospects in the flooded thanas bad, but elsewhere good.
	Bagirhat ...	0·90	
	Satkhira ..	3·14	
9	Jessore ,, 4, '90	1·83	Weather—hot and cloudy with occasional showers. Sowing of cold-weather crops commenced, except in flooded tracts. Jute steeping in progress. Average price of rice 13 seers per rupee. Charitable relief being given in Bongong and Jhenidah.
	Jhenidah ...	3·25	
	Magura ...	0·81	
	Narail ...	0·92	
	Bongong ...	3·10	
10	Moorshedabad ,, 4, '90	4·83	Bright sunshine prevailing. *Amun* paddy promises excellently. Rivers still very high. Some *kalai* submerged. *Rubbi* cultivation going on. Agricultural loans and gratuitous relief being given.
	Rajshahye Divn.		
11	Dinagepur ,, 4, '90	6·86	Weather—seasonable. Prospects continue favourable. Price of rice stationary. Sugarcane promises well.
	Thakurgaon ..	9·25	
12	Rajshahye ,, 4, '90	6·31	Weather—rainy, but rather clear to-day (4th). Floods subsiding. Prospects of winter paddy good. Jute is still being gathered. Some *kalai* sown too early washed off by recent sudden rise of the river, which is however falling.
	Nattore ...	13·16	
	Nowgong ..	10·8	
13	Rungpur ,, 4, '90	14·43	Weather—bright sunshine alternating with heavy showers. Immense mischief has been done by a storm accompanied with an unprecedented fall of rain on the 28th and 29th ultimo. The young *amun* paddy has suffered severely from inundation, as also the jute stocked for steeping. Numbers of houses have been blown down, and men and cattle have been killed.
	Nilphamari ...	11·21	
	Kurigram ...	6·74	
14	Bogra ,, 4, '90	13·31	Weather—stormy on 27th and 28th ultimo; since then fine, still and sultry. Excessive rainfall from 27th to 29th ultimo (13·61 inches) caused a high flood, which has destroyed some and damaged more of the *amun* rice. A considerable area of grazing ground has also been under water, but the flood is falling. Some jute also has been washed away, but most of the crop had already been housed. In many places the *amun* was not submerged, or was submerged for a very short time, and is in excellent condition. Sugarcane promises very well. Prices have scarcely risen, and common rice is selling at 18 seers a rupee.
	Sherpur ...	9·50	
	Nowkhilla ...	6·36	
15	Pubna ,, 4, '90	3·71	Weather—cool. Prospects of crops continue as before. *Rubbi* sowings going on. Prices a little higher than before.
16	Darjeeling ,, 4, '90	9·06	Weather—rainy during the first part of the week and fair during the latter part. *Bhutta*, and *bhadoi* paddy are being harvested. *Bara marua* and *haimanti* paddy progressing favourably. Prospects good.
17	Julpigoree ,, 4, '90	5·94	Weather—generally cloudy and rainy. Harvesting of jute going on. *Haimanti* paddy progressing favourably. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca Oct. 4, '90	0·14	Weather—hot and bright. Harvesting of jute nearly completed. *Amun* paddy doing well. *Shail* and *roachia* paddy thriving. Fodder available. Common rice sold at from 12 to 15 seers per rupee.
Dacca Divn. 19	Furreedpur „ 4, '90	1·45	Weather—seasonable. State of all standing crops good. Rivers rapidly subsiding. Common rice selling at 13 seers per rupee.
Dacca Divn. 20	Backergunge „ 4, '90	0·42	Weather—hot. State and prospects of standing crops good. Outturn of *aus* crop 15 annas. Common rice selling at about 13 seers per rupee.
Dacca Divn. 21	Mymensingh „ 4, '90	2·89	Weather—days hot and sometimes cloudy with high wind, and nights cool. A violent whirlwind in the form of a tornado passed this station on the 28th ultimo. State and prospects of crops on the whole good. Jute and *amun* paddy have been somewhat injured by the high flood. Harvesting of jute continues. Common rice sells at 13 seers per rupee.
Chittagong Divn. 22	Chittagong „ 7, '90	0·10	*Amun* transplanted. More rain is wanted for this crop. *Aus* nearly cut with average outturn. Prices steady.
Chittagong Divn. 23	Noakholly „ 4, '90	Nil	Weather— very hot. Transplantation of *amun* completed; prospects fair. *Amun* plants in the islands are being damaged to a small extent by insects called *broma jana* and *kalmundar*. Price of rice stationary.
Chittagong Divn. 24	Tipperah „ 4, '90	0·27	Weather—seasonable. *Amun* promises well. Jute cutting continues. Price of rice has risen at Chandpur.
Chittagong Divn. 25	Chittagong Hill Tracts. „ 2, '90	0·57	Weather—hot and dry throughout the week. Harvesting of *jum* paddy continues. Cotton plants in flower. Paddy plants in low lands progressing. Common rice is being sold at 12 seers 15 chittacks per rupee.
	Hill Tipperah „ 3, '90	0·45	Weather—hot. Harvesting of jute nearly over. *Amun* and *jum* crops doing well. Prices stationary.
BEHAR.			
Patna Divn. 26	Patna „ 4, '90	2·87	Weather—hot. Harvesting of *bhadoi* crops over. Paddy doing well, and the late rain has much benefited it. *Rahar* and *jowar* look well. Prices of food-grains advancing.
	Barh ...	5·10	
	Behar ...	4·62	
	Dinapore ...	3·63	
Patna Divn. 27	Gya „ 4, '90	5·25	Weather—clear. Paddy and sugarcane doing well. Fields being ploughed for *rubbi*. Prospects very favourable, and prices of food-grains falling.
Patna Divn. 28	Shahabad „ 4, '90	2·39	Weather—days hot and nights comparatively cool. Sky now and then spotted with clouds. Owing to recent rain prospect of paddy very cheering. Sugarcane fair. Prices stationary.
	Buxar ...	3·73	
	Bhabuah ...	3·75	
	Sasseram ...	4·07	
Patna Divn. 29	Durbhunga „ 4, '90	4·40	Weather—early part of the week cloudy and rainy. The rainfall of the week has done immense good to the winter rice crop. It has also facilitated the ploughing for *rubbi* sowings. Transplantation of tobacco and *alsa* going on. Prices remain almost stationary.
	Madhubani ...	2·66	
	Somastipur ...	6·29	
Patna Divn. 30	Mozufferpur „ 4, '90	4·62	The rainy season appears to have closed, and dry weather, with increasing coolness, has set in. The recent rainfall has been abundant and most beneficial to the crops. *Bhadoi* outturn is now returned at 8 annas from most parts. Prospects of rice crop excellent.
	Hajipur ...	4·15	
	Sitamarhi ...	4·24	
Patna Divn. 31	Sarun „ 4, '90	4·40	Very heavy rain with wind at the beginning of the week, since then weather fine and seasonable. The heavy *kathia* rainfall has done much good. Rice crop promising, and prospects of *rubbi* excellent. Preparation for *rubbi* sowings going on everywhere.
Patna Divn. 32	Chumparun „ 4, '90	5·12	Weather—days very hot. *Bhadoi* crops all cut; some are still being threshed. Prospects of winter rice very good, and with the rain of the week there should be a 16-anna crop.
	Bettiah ...	2·66	
Bhagulpore Divn. 33	Monghyr „ 4, '90	3·27	Weather—seasonable. Standing crops doing well. *Rubbi* sowing going on.
	Boguserai ...	3·82	
	Jamui ...	2·54	
Bhagulpore Divn. 34	Bhagulpore „ 4, '90	3·06	Weather—clear now with hot sun. Rain has fallen very favourably for the winter rice and *rubbi* sowings.
	Banka ..	2·45	
	Mudhepura ...	6·17	
	Soopool ...	5·50	
Bhagulpore Divn. 35	Purneah „ 4, '90	4·88	Weather—fine with passing storms. Heavy rain at the end of last week did good to winter rice. Prospects generally good. *Rubbi* sowings are commencing. Many cattle died from exposure to the storm of 27th September.
	Kishengunge ...	7·70	
	Arrareah ...	5·31	
Bhagulpore Divn. 36	Maldah „ 4, '90	9·76	Heavy rain with high wind on 27th and 28th ultimo. Weather now bright and hot. *Amun* paddy thriving well. *Kalai* sowings going on. Preparation of lands for *rubbi* crops in progress. State of mulberry plants good. Common rice selling at from 12½ to 18 seers per rupee.
	Chanchal ...	7·65	
	Shibgunge ...	5·55	
	Gajole ...	14·91	
Bhagulpore Divn. 37	Santhal Pergns. „ 4, '90	2·08	Weather—very seasonable. Prospects of paddy and other cold-weather crops are excellent. Outturn of *makai* in Pakour is estimated at 4 annas only.
	Deoghar ...	3·53	
	Godda ...	2·48	
	Jamtara ...	1·85	
	Pakour ...	5·38	
	Rajmehal ...	7·64	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Oct. 4, '90	0·13	Weather—seasonable. Sowing of *rabbi* has commenced. Prospects generally good.
Orissa Divn.	39	Pooree „ 2, '90	1·10	Weather—seasonable. Weeding of *sarad* crop going on and in some places almost over. *Beali* and *mandia* are being harvested. Miscellaneous crops doing well. Common rice selling at from 18 to 26 seers per rupee.
		Khoorda ...	2·19	
		Banpur ...	5·05	
Orissa Divn.	40	Balasore „ 4, '90	2·53	Weather—generally fine. In places the lately transplanted rice crop was injured by last week's floods, but generally much benefit was caused by the heavy rainfall.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Oct. 4, '90	2·05	Weather—seasonable. Prospects of winter rice excellent. Sugarcane also doing well. *Bhadoi* crops are still being harvested with very poor outturn generally.
Chota Nagpore Divn.	42	Lohardugga „ 4, '90	1·33	Weather—hot and cloudy. Rainfall during the week has much benefited the winter rice crop, the prospect of which is favourable. Harvesting of *gora* rice continues. Prices steady.
		Palamow (up to 29th Sept.)	1·72	
Chota Nagpore Divn.	43	Singbhoom Oct. 4, '90	2·18	Weather—seasonable; a cold weather feel in the air. Everything progressing satisfactorily. Yield of *gora* paddy will average about 10 or 11 annas. Price of rice varies from 15 seers per rupee at Ghatsilla to 24 seers per rupee at Asonboni.
Chota Nagpore Divn.	44	Manbhoom „ 4, '90	0·77	Weather—very favourable. Crops are in excellent condition all over the district, and with a little more rain, the outturn will probably be the best obtained for years. Rice selling at 18 seers per rupee.
		Govindpore ...	1·65	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 7th October, 1890.

C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ...	14 0	14 10	12 0	...	...	...	12 0	12 6	11 4	15 15	16 5	13 14	...	...	...
2	Bankoora ...	15 0	15 0	14 0	20 0	20 0	17 0	15 0	15 0	14 12	18 0	18 0	17 8		...	..
3	Beerbhoom ...	17 4	17 0	15 0	...	...	...	13 8	13 8	12 0	16 8	16 8	15 0	...	...	...
4	Midnapore ...	11 0	11 0	13 6	...	...	...	11 0	13 0	12 8	15 0	16 4	14 0	...	...	...
5	Hooghly ...	13 0	13 0	13 0	...	...	..	8 0	8 0	8 0	13 0	13 0	12 0	.	...	...
	Howrah ...	...	...	...	...	...	...	10 0	10 0	9 0	13 8	13 4	12 8	..	...	...
	Central Districts.															
	Calcutta ..	13 4	13 8	12 14	17 12	17 3	17 4	8 14	8 14	8 6	12 12	12 12	12 12		16 0	16 3
6	24-Pergunnahs	14 8	14 8	14 0	18 12	18 12	17 0	8 0	8 0	7 0	14 0	15 0	13 4	...	...	...
7	Nuddea ...	15 4	15 4	14 0	20 0	20 0	20 0	12 4	12 3	10 5½	14 8	14 8	12 5	...	.	...
8	Khoolna ...	...	...	...	...	...	.	12 12	12 0	10 0	15 8	13 0	13 0	...	...	
9	Jessore ...	13 4	13 4	12 0	...	...	...	11 0	11 0	9 9	14 8	14 4	12 0	...	...	...
10	Moorshedabad	16 0	16 0	16 0	...	.	...	10 0	10 0	10 0	16 0	15 0	14 0	...	...	...
11	Dinagepore	15 9	15 0	15 0	18 0	18 0	. .	12 13	12 0	11 4	15 9	15 8	13 0	...	.	...
12	Rajshahye ...	16 8	17 4	15 0	24 0	24 0	16 8	12 0	12 0	9 12	13 14	14 4	12 0	..	..	...
13	Rungpore ...	13 5	13 5	12 4	..	.	...	9 6	9 6	8 0	13 5	13 5	10 0	...	...	...
14	Bogra .	15 0	15 0	12 0	...	. .	...	12 0	12 0	9 12	15 0	14 4	12 0	...	...	...
15	Pubna ...	18 0	18 0	16 8	..			7 2	7 2	7 2	15 0	16 2	12 0		.	...
16	Darjeeling ...	9 0	8 0	10 0	10 0	10 0	9 0	5 0	5 0	5 0	12 0	11 0	10 0	..	...	...
17	Julpigoree* .		13 0	11 0		16 0	16 0		8 0	8 0		13 0	13 0	..	...	...
	Eastern Districts.															
18	Dacca ...	12 0	12 0	13 0	13 0	13 0	26 0	13 0	13 0	8 12	14 0	14 0	10 0	...	...	...
19	Furreedpore ...	16 0	15 0	15 0	20 0	20 0	16 0	10 0	10 0	8 0	13 0	14 0	11 0	...	...	...
20	Backergunge ...	...	...	..	..	...	...	11 0	11 8	10 0	12 8	12 8	10 8	...	...	...
21	Mymensingh ...	10 0	10 0	10 0	...	...	..	10 0	10 8	9 0	12 12	13 4	10 0	...	...	...

* Present return not received.

A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Raneegunge 10 seers.
B At Rampore Haut retail price of salt 8 seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 9 seers, Tumlook 8 seers, and Ghatal 11 seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 10½ seers and Johanabad 11 seers.
E In subdivisions retail prices of salt per rupee are :—Baraset 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpore 10 seers, Chooadanga 9½ seers, and Ranaghat 9 seers 2 chittacks.
G In subdivisions retail prices of salt per rupee are :—Satkhira 10 seers and Bagirhat 8 seers.
H In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.

Head-quarter Station Bazars of the Districts of Bengal on the 30th September, 1890.

DISTRICTS.	WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT. Present return.	SALT. Next preceding return.	SALT. Corresponding return of last year.	ARHAR OR THUR, CADJAN PEA. (*Cajanus indicus.*) Present return.	ARHAR OR THUR, CADJAN PEA. Next preceding return.	ARHAR OR THUR, CADJAN PEA. Corresponding return of last year.	FIREWOOD. Present return.	FIREWOOD. Next preceding return.	FIREWOOD. Corresponding return of last year.	SALT. Present return.	SALT. Next preceding return.	SALT. Corresponding return of last year.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
BENGAL.												
Western Districts.												
Burdwan.	3 8 0	3 8 0	3 11 0	0	20 0	18 0	100 0	100 0	100 0	A 11 2	11 2	10 5
Bankoora	3 15 0	3 15 0	3 15 0		18 0	14 8	240 0	240 0	280 0	10 4	10 4	10 0
Beerbhoom.	3 10 0	3 10 0	3 10 0		13 8	10 8	160 0	160 0	160 0	B 10 8	10 8	10 8
Midnapore	3 13 0	3 13 0	3 13 6		12 0	12 4	120 0	120 0	160 0	C 10 8	10 8	10 6
Hooghly.	3 12 0	3 12 0	3 11 6		11 0	13 0	120 0	120 0	120 0	D 9 0	9 0	9 0
Howrah	3 8 0	3 8 6	3 10 0		12 8	12 8	100 0	100 0	100 0	10 8	10 8	10 8
Central Districts.												
Calcutta	3 [illegible] 8	3 8 11	3 10 6		15 12	17 12	92 8	92 8	95 0	10 8	10 8	10 8
24-Pergunnahs	3 6 0	3 5 6	3 10 0		17 0	18 0	100 0	100 0	100 0	E 10 12	10 12	10 0
Nuddea.	3 12 0	3 12 0	3 14 0		16 13	17 12	..	...	...	F 9 13	9 13	9 2
Khoolna.	4 0 0	4 0 0	4 0 0			...	160 0	160 0	160 0	G 8 0	8 0	9 0
Jessore	4 0 0	4 4 0	4 0 0		16 0	16 0	160 0	160 0	160 0	H 9 0	8 0	9 2
Moorshedabad	3 8 0	3 8 0	3 8 0		17 12	16 0	200 0	200 0	200 0	I 11 4	11 4	11 4
Dinagepore.	4 0 0	4 0 0	4 0 0		16 0	18 0	160 0	160 0	160 0	J 10 0	10 0	9 8
Rajshahye	4 0 0	4 0 0	4 0 0		18 10	16 2	240 0	240 0	240 0	K 9 9	9 9	9 9
Rungpore	4 4 0	4 4 0	4 4 0		10 10	10 10	100 0	100 0	100 0	L 9 6	9 6	9 6
Bogra.	3 13 4	4 1 4	4 0 0			...	90 0	90 0	80 0	9 12	9 6	9 0
Pubna.	3 14 0	3 15 0	4 0 0		17 4	18 0	200 0	200 0	200 0	M k 8-11-2	k 8-11-2	9 12
Darjeeling.	5 4 0	5 8 0	5 0 0		8 0	8 0	120 0	120 0	120 0	N 7 8	7 0	8 0
Julpigoree		4 4 0	4 0 0		11 0	12 0		200 0	128 0		9 0	9 0
Eastern Districts.												
Dacca.	4 2 0	4 2 0	3 15 0		12 0	14 0	120 0	120 0	160 0	O 9 8	9 8	10 0
Furreedpore.	3 14 0	3 14 0	4 4 0		10 0	14 0	120 0	120 0	120 0	10 0	10 0	9 0
Backergunge	3 10 0	3 10 0	3 14 0		12 8	11 8	100 0	100 0	120 0	P 11 0	11 0	10 0
Mymensingh.	4 0 0	4 2 0	4 2 0			13 0	...		..	Q 9 12	9 8	9 14

[illegible] prices of salt per rupee are :—Lalbagh 9 seers, Jungipore 10 seers, and Kandi 11 seers.
[illegible] price of salt 8 seers per rupee.
[illegible] prices of salt per rupee are :—Nattore 9 seers and Nowgong 9 seers 9 chittacks.
Kurrigram retail price of salt 8 seers per rupee.
[illegible] price of salt 10½ seers per rupee.

N At Silliguri retail price of salt 8 seers per rupee.
O In subdivisions retail prices of salt per rupee are :—Maniekgunge 9 seers, Moonshoegunge 8 seers 14 chittacks, and Narain gunge 10 seers.
P In subdivisions retail prices of salt per rupee are :—Patuakhali 8 seers, Perozepore 9 seers, and Bhola 8 seers.
Q In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																		
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong* ...		11 0	10 0	...	...	...		11 0	8 0		15 0	13 0		...	...			
23	Noakholly ...	...	...	...	..	...	...	13 0	11 0	10 8	14 0	12 0	12 0	...	...	...			
24	Tipperah ...	11 7	11 7	12 0	.	..	.	8 14	8 14	10 0	12 10½	12 10½	12 0		..	...			
25	Chittagong Hill Tracts.	..	...	...	...	...	...	11 6½	11 2½	9 11	12 15	12 4½	10 0	...	..	...			
	Hill Tipperah	6 0	6 0	6 0	..	...	...	9 0	8 0	8 0	14 0	14 0	11 0	...	..	...			
	BEHAR.		Red.																
26	Patna ...	17 4	16 12	17 0	18 0	20 0	20 0	10 0	10 0	11 0	16 12	15 4	15 0	19 8	19 0	19 0			
		15 6	White. 15 12	16 0															
27	Gya ...	14 12	15 0	14 12	19 0	18 8	20 0	9 0	11 0	9 8	14 4	14 0	14 0	...	...	...			
28	Shahabad ...	16 0	15 0	14 0	19 0	20 0	17 0	8 0	8 0	9 0	15 8	14 12	12 0	20 0	20 0	20 0			
29	Durbhunga ...	15 8	14 8	15 8	15 8	13 0	19 8	12 0	12 0	10 8	16 8	16 8	15 0	...	...	...			
30	Mozufferpore ...	19 0	17 0	18 8	20 0	20 0	19 0	9 0	9 0	9 0	14 0	15 0	13 0	..	...	...			
31	Sarun ...	15 8	16 0	15 8	18 0	17 12	19 0	8 4	8 8	8 4	14 0	3 2	11 8	...	...	...			
32	Chumparun .	17 0	17 0	14 0	21 0	19 0	17 0	9 0	10 0	10 0	14 8	15 8	16 0		...	...			
33	Monghyr ...	17 13	16 8	16 4	22 0	21 0	17 13	11 0	11 4	11 4	14 11	13 14	12 1	...	...	...			
34	Bhagulpore ...	17 0	17 11	16 11	21 11	21 7	16 6	10 1 Old.	10 1 Old.	11 6	13 14 Old.	13 14 Old.	13 4	...	...	...			
								12 10 New.	12 10 New.	...	15 2 New.	15 2 New.	...						
35	Purneah ...	18 0	18 0	16 0	...	...	.	15 0	14 0	9 0	18 0	18 0	12 0	..	...	...			
36	Maldah ...	19 0	18 0	16 0	...	...	.	13 0	11 0	10 0	16 0	8 0	12 0	...	...	...			
37	Sonthal Perghs.	13 0	13 0	13 0	...	..	.	13 0	13 0	12 8	16 0	16 0	15 0	...	...	...			
	ORISSA.																		
38	Cuttack ...	14 7	14 7	18 2	...	..	...	10 8	10 8	10 8	18 6†	18 6	15 12	...	...	...			
39	Pooree ...	11 13	11 13	11 2	...	...	...	13 6	13 6	13 2	21 0	21 0	18 6	..	...	...			
40	Balasore ...	15 0	15 0	14 0	18 0	18 0	18 0	12 0	12 0	13 0	16 0	17 0	16 0	...	...	...			
	CHOTA NAGPORE.																		
	South-West Frontier Agency.																		
41	Hazaribagh ...	14 0	14 0	12 0	14 0	14 0	...	8 0	8 0	8 0	16 8	16 0	16 0	...	...	...			
			Red.								16 0 Ordinary.	15 4 Ordinary.	18 0 Ordinary.						
42	Lohardugga ...	14 0	14 0	10 9	20 0	...	10 0	14 8	...	13 0	16 8 Coarse.	18 0 Coarse.	...	...	...	...			
43	Singbhoom ...	12 0	16 0	10 0	16 0	20 0	20 0	12 0	12 0	16 0	14 0	15 0	20 0	...	...	...			
44	Manbhoom ...	13 5	13 5	12 0	28 0	...	...	13 0	13 0	5 0	20 0	21 0	20 0	...	...	...			

* Present return not received.

† Common rice at Jajpore 17 seers 1 chittack per rupee and at Kendrapara 20 seers 7 chittacks per rupee.

R At Feni the retail price of salt 8 seers per rupee.

S In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Sasseram 10½ seers, and Bhabua 9½ seers.

T In subdivisions retail prices of salt per rupee are :—Dumuntpore 10 seers and Madhubani 10½ seers.

U In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Dhamaria 10 seers.

V At Bettiah retail price of salt 10 seers per rupee.

CALCUTTA,
The 7th October, 1890.

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi. (*Eleusine Coracana.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch
...	..	...	.	...	.
...	...	...	..	...	.
...	...	...	...	...	
..	..	..	...	...	..
...	...	...	.	...	...
...	...	...	...		22 0
...	...	...	...	...	
...	...	...	...	...	..
...	...	...	28 8	27 8	26 4
...	...	...	23 0	...	30 0
...	...	...	21 0	19 8	22 0
	...	...	28 0	28 0	28 0
...	...	...	...	...	..
...	...	...	.	...	..
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	30 0	30 0	36 0
...	...	...	44 8	45 0	40 0
...	...	...	...	...	...
...	...	...	...	...	...

... of Bengal on the 30th September, 1890—(concluded).

Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
									Eastern Districts—concluded.
	110 0	80 0		10 0	10 0		3 14 0	3 12 0	Chittagong.
	...	...	R 9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
	...	...	9 6½	9 6½	9 0	4 3 0	4 3 0	4 4 0	Tipperah.
0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
									BEHAR.
0	110 0	130 0	10 0	10 0	9 8	3 10 0	3 9 6	3 13 0	Patna.
0	180 0	200 0	9 2	9 2	9 2	4 2 0	4 1 0	4 2 0	Gya.
0	120 0	140 0	S 10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Shahabad.
0	200	160 0	T 11 0	11 0	10 0	3 8	3 8 0	3 12 0	Durbhunga.
0	160 0	160 0	U 10 8	10 0	10 0	3 11 0	3 12 0	3 12 0	Mozufferpore.
0	160 0	160 0	10 4	10 8	9 12	3 12 0	3 12 0	4 0 0	Sarun
0	160 0	160 0	V 10 8	10 0	9 0	3 12 0	3 11 0	4 0 0	Chumparun.
7	147 0	126 0	W 10 8	10 3	9 15	3 10 0	3 10 9	4 0 0	Monghyr.
8 14	138 14	164 0	10 1	10 1	10 1	3 14 6	3 14 6	3 13 3	Bhagulpore.
0	130 0	180 0	X 9 0	9 8	9 0	4 7 0	4 7 0	4 7 0	Purneah.
0	120 0	140 0	9 8	9 0	10 0	4 2 0	4 0 0	3 14 0	Maldah.
0	200 0	200 0	9 0	9 0	9 4	3 14 0	3 14 0	4 0 0	Sonthal Pergnas.
									ORISSA.
0 0	80 0	80 0	10 0	10 0	11 0	4 0 0	4 0 0	3 12 0	Cuttack.
0 0	80 0	80 0	Y 9 13	9 13	11 2	3 12 0	3 12 0	3 10 0	Pooree.
0 0	160 0	160 0	Z 10 0	10 0	10 0	3 14 0	3 14 0	3 14 0	Balasore.
									CHOTA NAGPORE.
									South-West Frontier Agency.
0 0	24 0	320 0	8 8	8 0	8 0	4 3 0	4 3 0	4 8 0	Hazaribagh.
0	120 0	140 0	Z1 9 0	9 12	8 0	4 2 0	4 1 0	4 14 0	Lohardugga.
0 0	240 0	200 0	9 0	9 0	7 0	4 6 0	4 4 0	5 8 0	Singbhoom.
0 0	300 0	260 0	Z2 9 14	9 14	9 0	3 12 0	3 12 0	4 2 6	Manbhoom.

... rupee are :—Begunsrai 9½ seers and Jamui 9 seers.
... rupee are:—Kishengunge 8 seers and Arrareah (at Ranigunge) 10 seers.
... of salt 10 seers per rupee.

Y The Khoorda retail price of salt 9 seers per rupee.
Z At Bhudruck retail price of salt 10 seers per rupee.
Z1 At Daltongunge retail price of salt 8½ seers per rupee.
Z2 At Govindpore retail price of salt 9 seers per rupee.

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C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Sa

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 12 1	2 11 0	2 13 3	2 0 1	2 1 3	2 2 6	4 3 7	4 3 7	4 7 9	2 14 0	2 13 9	2 14
2	Serajgunge ...	2 6 0	2 1 0	2 2 0	...	...	...	5 0 0	4 12 0	4 8 0	3 0 0	3 0 0	2 12
3	Dacca ...	3 4 0	3 4 0	3 0 0	3 0 0	2 0 0	1 8 0	3 0 0	3 0 0	4 12 0	2 13 0	2 13 0	4 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	2 2 0	..	2 12 0	3 0 0	
5	Chittagong*		3 8 0	3 12 0	...	...	...		3 6 0	4 12 0		2 10 0	3 0
6	Patna ...	2 5 0 (Red.) / 2 8 0 (White.)	2 5 6 / 2 8 0	2 5 6 / 2 7 6	2 3 0	1 15 0	1 13 6	3 14 0	3 14 0	3 14 0	2 5 6	2 9 6	2 9
7	Balasore ...	2 8 0	2 8 0	2 10 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 0 0	2 7 0	2 5 0	2 7
8	Pooree ...	...	...	...	...	..	.	...	...	...	1 14 3	1 14 3	2 3
9	Cuttack ...	2 10 0	2 10 0	3 0 0	...	.	...	3 10 0	3 10 0	10 0	2 2 0	2 2 0	2 5

* Present return not received.

CALCUTTA,
The 7th October, 1890.

the undermentioned Marts of Bengal on the 30th September, 1890.

PRICES PER MAUND

R OR CHOLUM. (*hum Vulgare.*)			BAJRA OR CUMBU. (*Pennisetum typhoideum.*)		
Next preceding return.	Corresponding return of last year.		Present return.	Next preceding return.	Corresponding return of last year.
P. R. A. P.	R. A. P.		R. A. P.	R. A. P.	R. A. P.
2 4 0	2 2 6		...	3 7 4	3 3 6
...	...		...	...	...
...	...		...	...	...
...	...		..	...	...
...	...		...	...	.
0 0 2 1 0	2 0 0		...	...	..
...	...		...	...	..
...	...		...	...	...
...	...		...	...	...

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OR MAIZE.	ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
P. R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
8 2 4 3	2 5 4	2 4 6	2 0 9	0 5 9	0 5 9	0 5 9	3 8 8	3 8 11	3 10 6	Calcutta.
...	...	...	...	...	...	...	3 11 0	3 11 0	3 14 0	Serajgunge.
...	3 4 0	3 4 0	2 12 0	0 5 0	0 5 0	0 4 0	4 2 0	4 2 0	3 15 0	Dacca.
...	3 8 0	3 8 0	...	0 8 0	0 8 0	...	3 12 0	3 12 0	...	Naraingunge.
...	...	...	...		0 5 4	0 8 0		3 14 0	3 12 0	Chittagong.
6 1 13 6	2 1 0	2 0 0	1 12 0	0 6 0	0 6 0	0 5 0	3 10 0	3 9 6	3 13 0	Patna.
...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	3 14 0	Balasore.
...	...	...	...	...	...	...	3 12 0	3 12 0	3 10 0	Pooroe.
...	2 0 0	2 0 0	9 2 0	0 8 0	0 8 0	0 8 0	4 0 0	4 0 0	3 12 0	Cuttack.

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C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division	District	Representative station	Air pressure: Mean barometric height, 8 A.M.	Air pressure: Mean reduced to sea-level.	Air pressure: Variation from mean.	Wind: Prevailing direction.	Wind: Mean wind velocity.	Temperature: Highest during week.	Temperature: Date.	Temperature: Lowest during week.	Temperature: Date.	Temperature: Mean maximum temperature.	Temperature: Mean minimum temperature of week.	Temperature: Mean daily temperature of week.	Temperature: Variation from normal mean of week.	Temperature: Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	29·833	29·845	—	?	271	89·7	3rd Oct.	76·6	29th Sep.	87·9	78·7	83·3	—	81·7
		Gopalpore	29·822	29·844	+·036	NW	271	89·2	3rd ,,	76·8	29th ,,	87·5	78·7	83·1	−1·0	82·6
		False Point	29·824	29·846	+·007	SW	240	87·9	3rd ,,	74·6	28th ,,	85·8	76·7	81·3	−1·8	81·8
	Cuttack	Cuttack	29·767	29·840	+·016	SSW	51	93·4	3rd ,,	76·3	29th ,,	89·3	77·3	83·3	−1·1	81·7
	Balasore	Balasore	29·787	29·846	+·008	Calm	106	89·4	3rd ,,	73·8	27th ,,	85·8	76·9	81·4	−0·7	81·4
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	29·822	29·848	+·008	SE, WSW	343	88·7	1st ,,	77·0	29th ,,	87·0	78·6	82·8	−0·6	82·5
	Midnapore	Midnapore	29·696	29·839	−·011	S	226	93·3	3rd ,,	73·1	27th ,,	87·6	76·0	81·8	−0·8	79·7
	24-Pergunnahs, Howrah, Hooghly	Calcutta	29·833	29·855	+·016	SW	73	88·5	3rd ,,	71·7	27th ,,	85·6	74·7	80·2	−2·3	80·3
	Burdwan	Burdwan	29·761	29·803	+·018	S	94	91·6	3rd ,,	74·9	27th ,,	86·6	77·1	81·9	−2·1	79·3
	Bankoora	Bankoora	29·518	29·817	−·011	Variable	100	91·6	3rd ,,	73·1	27th ,,	85·1	75·7	80·4	−2·5	78·6
	Beerbhoom, West Burdwan	Raneegunge*	29·518	29·858	+·020	SSE	56	91·5	3rd ,,	72·9	27th ,,	86·3	75·9	81·1	−1·6	79·4
	Moorshedabad	Berhampore	29·789	29·857	+·010	S	97	89·1	3rd ,,	72·3	29th ,,	84·4	75·4	79·9	−3·7	79·4
	Nuddea	Krishnaghur	29·802	29·851	+·019	WSW	127	90·3	3rd ,,	72·8	27th ,,	86·6	75·3	80·9	−2·0	80·7
	Jessore, Khoolna	Jessore	29·828	29·862	+·015	Calm	115	90·7	2 & 3 ,,	75·4	27th ,,	87·9	78·0	83·0	−0·8	81·6
East Bengal.	Chittagong	Chittagong	29·806	29·857	+·021	Variable	61	90·7	3rd ,,	74·7	27th ,,	88·0	78·68	83 3	+1·7	80·4
	Chittagong Hill Trac	Demagiri	Observations not received.													
	Backergunge	Barrisal	29·858	29·870	+·029	SE	83	91·3	3rd Oct.	73·9	27th ,,	87·7	77·5	82·6	+0·7	82·3
	Noakholly	Noakholly	29·855	29·899	+·045	Variable	150	88·0	2 & 3 ,,	73·8	27th ,,	86·1	75·9	81·0	−0·4	81·9
	Furreedpore	Furreedpore	29·843	29·883	+·033	South-easterly.	113	88 5	3rd ,,	75·9	27 & 29 ,,	86·1	77·5	81·8	−0·4	81·3
	Dacca	Dacca	29·846	29·869	+·019	SE	152	91·1	3rd ,,	74·2	27th ,,	88·7	77·3	83·0	−0·4	82·1
	Commillah	Commillah	29·854	29·890	+·037	Southerly	76	89·4	3rd ,,	73·8	27, 30 ,, & 1st Oct.	87·6	74·8	81·2	−1·4	81·1
	Mymensingh	Mymensingh	29·819	29·878	+·026	N	112	89·2	3rd ,,	71·1	27th Sep.	85·3	73·7	79·6	−2 5	78 6
North Bengal.	Bogra	Bogra	29·780	29·844	−·022	Calm	92	89·3	3rd ,,	71·6	28th ,,	83·8	73·9	78·9	−3·3	78·6
	Pubna	Serajgunge	29·815	29·862	+·014	North-easterly.	85	90·1	3rd ,,	71·7	29th ,,	85·9	75·2	80·6	−1·7	80·2
	Rajshahye	Rampore Beauleah.	29·780	29·851	+·020	Variable	114	88·3	3rd ,,	73·6	27th ,,	84·1	76·2	80 2	−1·8	80·3
	Maldah	Maldah	29·773	29·855	+·084	SE	92	90·7	3rd ,,	70·5	29th ,,	84·5	74·2	79·4	−4·1	79·3
	Dinagepore	Dinagepore*	29·745	29·867	+·004	NE	73	90·6	3rd ,,	67·6	28, 29 ,,	83·4	72·6	77·5	−5·4	76·2
	Rungpore	Rungpore	29·701	29·888	+·080	E	116	89 3	3rd ,,	66·7	28th ,,	83·1	71·6	77·3	−4·6	76 3
	Julpigoree, Cooch Behar	Julpigoree	29·594	29·888	+·031	?	2149	88·9	2nd ,,	65·6	28th ,,	82·8	71·0	76·9	−3·5	74·3
	Darjeeling Hill Tracts	Darjeeling	23·013	—	−·022	ENE	122	64 6	2nd ,,	46·2	29th ,,	59·8	49·8	54·8	−3 5	54·8
North Behar.	Purneah, North Bhagulpore	Purneah	29·728	29·857	+·013	ENE	121	89·2	3rd ,,	66·5	28th ,,	83·5	71·8	77·2	−5 9	77·1
	Mozufferpore	Mozufferpore	29·661	29·845	—	Variable	180	89·8	3rd ,,	68·2	29th ,,	81·4	72·9	77·2	—	76·6
	Durbhunga	Durbhunga	29·695	29·865	+·016	Easterly	105	89·9	3rd ,,	60·5	28th ,,	82·2	72·4	77·3	−5·8	78·0
	Chumparun	Motihari	29·645	29·870	+·046	WNW	149	91·2	3rd ,,	67·8	28th ,,	83·8	72·0	77·4	−4·3	78·7
	Sarun	Chupra	29·641	29·838	+·016	E	109	92·8	1st ,,	69·2	28th ,,	84·4	74·4	79·4	−3·4	77 2
South Behar.	Shahabad	Dehree	29·479	29·840	+·002	Variable	179*	89·3	3rd ,,	67·5	28th ,,	81·5	72·1	76·8	- 6·0	76·5
		Buxar	29·604	29·851	+·019	Nearly	179	89·4	3rd ,,	67·3	27th ,,	81·0	72·1	76·5	−6·7	76·0
		Arrah	29·641	29·857	+·019	NE	87	89·9	3rd ,,	67·7	28th ,,	81·5	72·6	77·1	−5·8	76·8
	Gya	Gya	29·462	29·846	+·014	E	120	90·4	3rd ,,	68·8	28, 29 ,,	81·9	74·2	78·1	−6·1	76·6
	Patna	Bankipore	29·667	29 855	+ 016	E	193	89·4	3rd ,,	68·2	28th ,,	81 5	73·3	77·4	−7·1	77·2
	South Bhagulpore, Monghyr	Bhagulpore	29·668	29·862	+·008	Calm	108	90·7	3rd ,,	68·5	27th ,,	83·0	72·7	77·9	−4·5	77·8
	Sonthal Pergunnahs	Doomka	29·842	29·845	+·010	SE	123	90·6	3rd ,,	71·3	29th ,,	84·1	74·5	79·3	−2·6	78·9
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·814	29·845	−·016	Westerly	169	86·4	3rd ,,	64·8	28th ,,	78·8	68·8	73·8	−4·3	72·2
	Lohardugga, Manbhoom	Ranchee	27·696	29·845	−·000	Calm	98	86·0	3rd ,,	64·9	28th ,,	78·9	67·3	73·1	−3·3	73·0
	Singbhoom	Chyebassa	29·059	29·830	+·008	Variable	21*	90·4	3rd ,,	72·7	28, 29 ,,	85·5	73·8	79·7	−1·6	79·3
Assam.	Assam	Sibsagar	29·587	29·928	+·034	SW		90·1	2nd ,,	70·9	& 1st Oct, 30th Sep.	86·5	73·0	79·8	−1·6	79·3
		Dhubri	29·777	29·897	+·027	NE	208	87 2	3rd ,,	69·8	27, 29 ,,	80·8	72·5*	77·2*	−3·7	73·9
		Silchar	29·795	29·902	+·028	Calm	20	93·5	27th Sep.	69·3	27th ,,	90·9	72·9	81·9	−0·6	77·8

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers in the rainfall column are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the past week, the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 3rd of October 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of September. Mean for district.	Since 1st September. Normal mean.	Since 1st September. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
83	4·9	0·87	1·54	1·69	16·04	10·97	+5·07	53·77	44·92	+8·85	2·3	2·5	Pooree ...	Pooree	Orissa.
82	2·7	0·17											Gopalpore ...		
86	5·7	3·04											False Point ...		
80	5·6	0·12	1·36	1·45	16·81	9·93	+6·68	54·09	44·64	+9·44	2·0	2·5	Cuttack ...	Cuttack	
87	3·9	1·68	2·61	2·05	18·81	11·70	+7·11	51·54	47·10	+4·44	3·5	2·4	Balasore ...	Balasore	
88	5·9	1·24	2·24	1·85	13·28	12·09	+1·19	47·23	53·87	−6·64	3·3	2·3	Saugor Island ...	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
85	3·1	1·22	3·33	1·11	10·00	8·57	+1·43	44·74	46·71	−1·97	4·3	2·1	Midnapore ...	Midnapore	
90	6·0	8·95	5·77	1·13	9·58	8·99	+0·59	46·86	46·96	−0·10	3·6	2·3	Calcutta ...	24-Pergunnahs .. Howrah . Hooghly ...	
88	7·0	3·05	4·14	1·05	12·38	8·08	+4·30	56·56	42·25	+14·31	4·3	2·0	Burdwan ...	Burdwan	
90	6·3	2·76	2·72	1·22	9·17	8·75	+0·42	46·89	48·39	−1·50	4·0	2·2	Bankoora ...	Bankoora	
89	6·3	1·77	4·40	1·18	10·39	10·22	+0·17	55·61	48·31	+7·30	4·3	2·0	Raneegunge ...	Beerbhoom ... West Burdwan ..	
94	7·4	5·52	5·21	1·32	10·09	10·86	−0·77	53·01	45·88	+7·13	4·8	2·3	Berhampore ..	Moorshedabad .	
86	6·6	5·28	4·95	1·26	10·09	9·09	+1·00	46·25	44·58	+1·67	3·4	2·1	Krishnaghur ...	Nuddea	
90	6·7	1·47	1·67	1·25	5·46	9·42	−3·96	45·75	48·24	−2·49	2·4	2·2	Jessore ...	Jessore ... ... Khoolna	
88	3·1	Nil	0·39	1·88	11·41	15·05	−3·64	113·82	104·56	+9·26	1·5	2·8	Chittagong ...	Chittagong	East Bengal.
				2·58		13·62			71·75			3·0	Domagiri ...	Chittagong Hill Tracts	
86	1·3	0·51	0·98	2·11	6·95	12·80	−5·85	61·14	69·51	−8·37	1·5	2·9	Barrisal ...	Backergunge	
87	0·3	1·41	0·95	2·39	11·05	17·80	−6·75	89·07	97·81	−8·74	1·2	3·6	Noakholly ...	Noakholly	
88	4·1	0·29	1·00	1·54	4·61	9·51	−4·90	38·41	50·55	−12·14	2·0	2·3	Furreedpore ...	Furreedpore	
84	4·4	0·28	0·47	1·51	3·66	10·75	−7·09	52·82	54·88	−2·06	1·8	2·3	Dacca ...	Dacca	
86	2·9	0·27	0·53	1·98	5·61	12·05	−6·44	54·03	62·52	−8·49	1·3	2·6	Commillah ...	Tipperah	
91	5·1	2·99	4·04	2·38	9·66	13·66	−4·00	66·73	63·32	+3·41	3·0	2·5	Mymensingh ...	Mymensingh	
89	4·6	13·64	13·39	1·70	21·05	10·74	+10·31	67·30	52·59	+14·71	3·5	2·1	Bogra ...	Bogra	North Bengal.
95	5·4	9·54	6·53	1·49	12·40	10·88	+1·52	48·79	48·39	+0·40	3·5	2·0	Serajgunge ...	Pubna	
92	2·6	6·41	9·97	1·22	15·18	12·24	+2·94	61·93	49·27	+15·66	3·3	2·2	Rampore Beauleah	Rajshahye	
89	4·0	9·76	8·71	1·19	12·96	11·47	+1·49	51·54	50·13	+4·41	3·5	2·0	Maldah ...	Maldah	
93	3·2	10·50	10·88	1·40	15·41	12·02	+3·39	68·30	53·28	+15·02	2·4	2·2	Dinagepore ...	Dinagepore	
88	3·9	15·44	17·82	2·17	27·87	14·21	+13·36	89·28	69·26	+20·02	3·8	2·1	Rungpore ...	Rungpore	
94	2·6	5·86	5·58	2·33	25·33	22·01	+3·32	140·27	104·92	+35·35	4·4	2·7	Julpigoree ...	Julpigoree ... ... Cooch Behar	
92	6·7	9·06	6·38	2·41	23·37	19·05	+3·72	152·14	114·16	+37·98	4·8	2·0	Darjeeling ...	Darjeeling Hill Tracts	
90	4·4	7·27	6·47	1·62	14·17	12·97	+1·20	74·46	54·94	+19·52	3·0	1·7	Purneah ...	Purneah ... ... North Bhagulpore ...	North Behar.
90	4·7	4·28	4·31	1·54	7·20	9·30	−2·10	50·80	39·84	+10·96	3·3	1·4	Muzufferpore ...	Muzufferpore	
86	4·6	4·40	4·26	1·57	7·21	9·60	−2·39	55·77	41·26	+14·51	3·0	1·5	Durbhunga ...	Durbhunga	
84	3·7	5·16	3·89	2·41	9·28	10·03	−0·75	62·94	43·63	+19·31	3·5	1·6	Motihari ...	Chumparun	
96	4·6	4·40	2·80	2·16	8·15	8·81	−0·65	52·12	38·83	+13·29	2·3	1·8	Chupra ...	Sarun	
90	6·6	2·88											Dehree ...	Shahabad	South Behar.
93	6·1	3·60	3·44	0·90	7·63	7·52	+0·11	48·43	36·18	+12·25	3·6	1·4	Buxar ...		
91	4·1	4·55											Arrah ...		
90	7·0	5·25	3·39	0·94	4·86	7·05	−2·19	56·71	37·99	+18·72	3·5	1·4	Gya ...	Gya	
88	5·7	2·87	3·75	1·18	7·59	7·32	+0·27	46·78	37·45	+9·33	3·5	1·5	Bankipore ...	Patna	
93	5·4	4·60	3·06	0·98	6·23	8·23	−2·00	50·17	39·57	+10·60	4·0	1·3	Bhagulpore ...	South Bhagulpore ... Monghyr	
88	4·2	2·08	3·82	1·15	7·35	10·68	−3·33	53·23	46·89	+6·34	4·3	1·6	Doomka	Sonthal Pergunnahs...	Chutia Nagpur.
93	6·1	2·98	2·14	1·14	7·22	9·52	−2·30	47·08	46·52	+0·56	4·6	1·8	Hazaribagh ..	Hazaribagh	
89	7·1	4·01	2·77	0·69	7·17	9·24	−2·07	46·15	44·65	+1·50	4·7	1·5	Ranchi ...	Lohardugga	
			6·07	1·93	10·31	8·17	+2·14	48·45	48·31	+0·14	4·0	1·5		Manbhoom	
85	6·9	1·99	2·18	1·30	7·74	8·76	−1·02	32·77	47·77	−15·00	4·0	1·8	Chyebassa ...	Singbhoom	
92	8·1	0·24											Sibsagar ...		Assam.
93	7·6	15·36											Dhubri	Assam	
88	7·6	0·19											Silchar		

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.

denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means ten years. The means of the district are the numerical average of the rainfall returns received in the district, *i.e.*, from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 3rd of October 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 27th September.	Sunday, 28th September.	Monday, 29th September.	Tuesday, 30th September.	Wednesday, 1st October.	Thursday, 2nd October.	Friday, 3rd October.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of September.	Average total rainfall from 1st of September.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	.....	0·71	0·11	.....	.....	.....	.....	2	0·82	16·30	10·68	55·79	39·69
		Khurdah ...	.....	... ...	...	.....	.....	.....	.....	Nil	Nil	13·23	11·12	56·22	47·97
		Banpur ...	... ...	1·75	0·50	.....	.....	.....	.....	2	2·31	16·52	10·16	50·95	40·96
		False Point ...	0·47	0·27	1·23	0·63	0·44	.....	.....	5	3·04	16·15	11·89	52·14	51·05
		Gop ...	1·55	1·32	0·12	0·14							?		?
		Satpara ...	.....	0·14	0·13								?		?
		Pipli ...	1·45	.....	.....	0·31							?		
	Cuttack ...	Jagatsingpore ...	.....	1·40	1·41	0·19	.....	.....	.....	3	3·00	17·33	9·81	52·62	39·32
		Banki ...	0·03	.....	... ...	.....	.....	.....	.....	1	0·03	13·99	9·38	54·37	42·03
		Cuttack ...	.....	.....	.....	0·13	... ...	.....	.....	1	0·13	21·03	10·80	71·66	49·61
		Kendrapara ...	.....	2·17	.....	0·03	0·13	.....	.....	3	2·33	16·03	9·71	45·38	45·33
		Jajpore ...	0·54	.....	0·79	.....	.....	.....	.....	2	1·33	15·01	10·29	46·37	46·75
		Dharmsala ...											?		?
		Salipore ...	.....	1·25	.....	.....	.....	.....	.....	1	1·25	11·85	?	43·74	?
	Balasore ...	Chandbali ...	1·35	.....	.....	...	.....	.....	.....	1	1·35	13·74	11·58	43·11	44·87
		Bhuddruck ...	1·45	0·03	0·15	.....	1·05	.....	.....	4	2·68	16·52	11·26	48·08	45·94
		Sorah ...	0·43	0·50	4·00	0·07	.....	.....	.....	4	5·00	19·07	11·88	53·74	45·10
		Balasore ...	0·27	2·20	0·02	0·04	.....	.....	.....	4	2·53	22·89	12·48	56·70	50·38
		Jellasore ...	0·68	2·00	.....	0·36	.....	.....	.....	3	3·04	22·05	10·85	54·26	46·53
		Baripodah ...	0·05	0·10	0·25	0·36	.....	.....	0·25	5	1·01	18·55	12·08	53·12	49·52
South-West Bengal.	Midnapore ...	Contai ...	0·57	0·79	0·06	.....	.....	.....	.....	3	2·02	15·11	11·88	45·67	52·19
		Saugor Island	0·50	0·16	0·58	.....	.....	.....	.....	3	1·24	12·52	12·06	45·85	56·78
		Tumlook ...	0·70	3·30	0·50	.....	.....	.....	.....	3	4·50	12·20	8·80	50·80	46·27
		Midnapore ...	0·52	0·12	0·66	0·22	... ...	.....	.....	4	1·52	7·80	7·64	42·37	43·38
		Ghatial ...	2·05	0·07	1·32	0·19	.....	.....	0·05	5	3·68	10·00	9·28	42·68	50·50
		Kukrahaty ...	1·56	0·21	3·26	.....	.....	.....	... ...	3	6·03	13·71	?	40·04	?
		Garbetta ...	0·97	.....	3·25	0·32	.....	.....	.....	3	4·54	9·02	?	42·65	?
	24-Pergunnahs	Diamond Harbour ...	0·91	1·18	1·32	0·05	.....	.....	.....	4	3·46	12·34	11·74	50·32	52·69
		Canning Town	1·27	.....	0·70	0·01	.....	.....	.....	3	1·98	7·18	?	52·66	?
		Alipore Jail ...	4·60	0·51	2·70	0·27	.....	.....	... ...	4	8·08	12·42	10·39	52·23	50·30
		Barrackpore...	2·57	2·09	2·40	0·08	.....	.....	.....	4	7·14	9·13	7·89	42·50	44·96
		Dum-Dum ...	3·29	1·13	2·30	.....	.....	.....	.....	3	6·72	11·77	9·32	43·71	46·74
		Baraset ...	2·47	1·10	0·63	.....	.....	... ...	... ...	3	4·26	9·69	9·52	43·67	44·88
		Busseerhat ...	0·42	.....	0·29	.....	.....	.....	.....	2	0·71	5·31	9·11	47·78	49·67
	Howrah ...	Howrah ...	2·90	0·02	3·21	0·23	.....	... ...	.....	4	7·25	9·95	8·93	44·28	45·97
		Mohesreka ... (*Ooloberiah*)	1·61	2·44	1·77	0·03	.....	.....	.....	4	5·85	10·01	9·15	54·29	47·86
	Hooghly ...	Serampore ...	1·20	4·05	1·95	0·10	.....	.....	.....	4	7·30	10·53	8·46	45·86	45·53
		Hooghly ...	1·22	3·58	1·95	0·68	... ...	.....	.....	4	7·43	12·52	7·71	46·88	43·65
		Jehanabad ...	2·04	0·03	0·86	0·06	.....	.....	.....	4	2·99	4·38	9·48	48·36	50·16
	Burdwan ...	Culna ...	0·22	2·35	1·10	0·03	.....	.....	.....	4	3·70	10·91	7·11	50·14	39·83
		Burdwan ...	1·40	0·06	1·56	0·03	.....	.....	.....	4	3·05	11·00	8·34	61·47	43·53
		Cutwa ...	0·33	4·10	0·07	.....	.....	0·09	1·08	5	5·67	15·21	8·81	58·04	43·39
		Raneegunge ...	1·43	0·35	0·34	.....	.....	.....	.....	3	2·12	8·82	7·76	51·61	45·54
		Manbur ...	0·48	0·36	1·09	.....	.....	.....	.....	3	1·93	4·80	?	44·42	?
	Bankoora ...	Bankoora ...	1·48	0·04	1·23	.....	.....	.....	.....	3	2·75	11·28	8·54	53·00	47·00
		Bishenpore ...	0·76	0·06	2·34	0·30	.....	.....	0·21	5	3·73	10·11	9·48	46·50	48·99
		Maliara ...	1·82	0·19	0·10	0·06	.....	.....	.....	4	2·17	7·63	6·08	53·31	44·90
		Khatra ...	1·12	0·20	0·20	.....	0·60	.....	.....	4	2·21	7·06	10·01	54·64	52·60
		Indas ...	1·40	.....	2·22	0·16	.....	.....	.....	3	3·84	6·89	?	54·23	?
		Kotalpore ...	0·55	.....	2·05	0·15	.....	.....	.....	3	2·75	6·63	?	60·26	?
		Anda ...	1·24	1·40	.....	.....	.....	.....	0·40	5	3·04	11·58	?	46·31	?
		Gangajalghati	1·37	0·12	0·44	.....	.....	.....	.....	3	1·93	10·49	?	59·88	?
		Raipore ...	2·05	0·12	0·57	0·56	0·35	.....	0·14	6	3·79	9·64	?	47·65	?
		Sonamukhi ...	0·46	0·74	1·37	.....	.....	.....	.....	3	2·57	9·00	?	48·23	?
	Beerbhoom ...	Bh. Soory ...	2·29	0·40	0·20	1·58	.....	.....	0·01	5	4·57	8·58	10·64	55·59	49·59
		Hetampore ...	2·23	0·43	1·07	0·17	.....	.....	0·51	5	4·41	12·00	11·76	51·03	51·03
		Rampore Haut	2·44	1·18	2·70	0·18	.....	.....	.....	4	6·50	12·89	11·31	64·28	46·99
		Bolpore ...	2·02	0·20	1·80	.....	... ...	.....	.....	3	4·08	10·25	?	52·20	?
		Murarai ...	0·85	... ...	.....	.....	.....	.....	.....	1	0·85	7·00	?	49·35	?
	Nuddea ...	Ranaghat ...	1·12	1·85	1·93	0·16	.....	.....	.....	4	5·06	11·02	7·35	47·96	42·55
		Kishnaghur ...	0·14	2·85	2·31	0·05	.....	.....	.....	4	5·35	12·13	8·41	53·79	41·80
		Chooadanga ...	.....	3·40	2·25	0·08	.....	.....	.....	3	5·73	8·08	10·23	38·81	46·16
		Meherpore ...	0·40	.....	3·58	... ...	.....	.....	.....	2	3·98	9·06	8·50	45·61	43·59
		Kooshtea ...	0·20	2·15	2·22	0·04	.....	.....	.....	4	4·61	10·15	11·00	45·10	49·23
	Khoolna ...	Satkhira ...	2·61	.....	0·06	0·02	.....	.....	.....	3	2·69	6·82	9·37	50·09	50·46
		Bagirhat ...	0·90	.....	.....	.....	.....	.....	.....	1	0·90	5·89	10·53	56·89	55·19
		Khoolna ...	0·45	.....	.....	.....	.....	.....	.....	1	0·45	4·86	10·25	44·89	49·70
		Nakipur ...	1·19	.....	.....	.....	.....	.....	... ...	1	1·19	9·03	?	59·90	?
		Rampal ...	0·87	.....	.....	.....	.....	.....	.....	1	0·87	8·38	?	54·34	?
	Jessore ...	Narail ...	0·15	.....	0·64	.....	.....	.....	.....	2	0·79	1·83	7·56	39·44	41·39
		Jessore ...	0·22	0·05	1·09	0·11	.....	.....	.....	4	1·47	6·09	9·19	40·73	49·20
		Jhenidah ...	.....	1·02	2·14	.....	.....	.....	.....	2	3·16	7·13	9·57	49·21	48·17
		Magoorah ...	0·19	0·05	0·57	.....	.....	.....	.....	3	0·81	2·48	8·99	38·25	44·97
		Bongong ...	0·95	1·10	1·00	.....	.....	.....	.....	3	3·05	7·86	9·81	38·16	46·69
	Moorshedabad	Kandi ...	0·79	1·73	4·35	0·20	.....	.....	0·53	5	7·60	13·20	10·14	59·81	45·73
		Berhampore ...	0·98	0·74	2·57	0·69	0·48	.....	0·11	6	5·52	9·06	11·54	52·15	45·51
		Lalbagh ...	0·57	0·78	3·13	0·38	0·11	.....	.....	5	4·97	9·77	11·16	56·19	45·14
		Azimgunge ...	0·50	1·10	2·08	.....	.....	.....	.....	3	3·68	9·93	10·11	51·42	45·96
		Jungipore ...	1·05	1·02	1·55	0·20	0·20	.....	0·04	6	4·06	7·77	11·00	43·11	45·86
		Lalgola ...	2·20	1·45	1·30	0·45	.....	.....	.....	4	5·40	10·73	11·26	58·40	46·59
		Jiagunge ...											?		?
		Akhriguni ...	1·60	1·33	1·65	0·29	.....	.....	.....	4	4·87	11·26	?	53·36	?
		Patkabari ...	1·20	3·00	1·09	.....	.....	0·10	.....	4	5·30		?		?
East Bengal	Chittagong ...	Cox's Bazar ...	0·64	0·10	.....	.....	.....	.....	.....	2	0·74	11·79	15·92	124·86	123·03
		Chittagong ...	0·08	.....	.....	.....	.....	.....	.....	1	0·08	11·01	14·18	102·94	85·99
		Kutubdia ...	1·74	.....	.....	.....	.....	.....	.....	1	1·74	15·94	?	105·30	?
		Satkanya ...	0·37	.....	.....	.....	.....	.....	.....	1	0·37	10·61	?	77·91	?
	Chittagong Hill Tracts	Rangmati ...	0·27	.....	.....	.....	.....	.....	.....	1	0·27	7·99	14·04	88·29	74·25
		Rema ...											13·17		93·43
	Backergunge	Patuakhally...	0·23	.....	.....	.....	.....	.....	.....	1	0·23	8·25	14·03	69·53	79·53
		Perozepore ...	2·32	0·19	.....	.....	.....	.....	.....	2	2·51	7·17	11·97	57·74	68·73
		Burrisal ...	0·60	.....	.....	.....	.....	.....	.....	1	0·60	7·43	12·11	56·69	60·86
		Bhola ...	0·25	0·05	.....	.....	.....	.....	.....	2	0·30	4·51	12·06	38·13	75·04

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 3rd of October 1890—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 27th September.	Sunday, 28th September.	Monday, 29th September.	Tuesday, 30th September.	Wednesday, 1st October.	Thursday, 2nd October.	Friday, 3rd October.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of September.	Average total rainfall from 1st of September.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
East Bengal —*concld.*		*Gournaddi*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·50	?	37·17	?
		Baushal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·62	?	64·32	?
	Noakholly	Noakholly	1·55	.....	.....	.....	.....	.....	.....	1	1·55	12·93	18·76	89·26	98·78
		Feeny	0·35	.....	.....	.....	.....	.....	.....	1	0·35	9·16	16·81	95·87	96·73
		Harishpore											?		?
		Ramganj	0·65	.....	0·12	.....	.....	.....	.....	2	0·77	3·97	?	60·48	?
	Furreedpore	Madaripore	0·23	.....	.....	.....	.....	.....	0·16	2	0·39	2·24	8·88	33·36	50·71
		Furreedpore	.....	0·25	.....	.....	.....	.....	1·35	2	1·60	5·39	10·54	43·42	53·05
		Goalundo	0·06	.....	0·94	.....	.....	.....	.....	2	1·00	6·17	9·09	38·41	47·83
	Dacca	Munshigunge	0·25	.....	.....	.....	.....	.....	.....	1	0·25	3·43	13·04	53·61	63·72
		Dacca	0·14	.....	.....	.....	.....	.....	.....	1	0·14	1·08	10·59	48·82	54·14
		Naraingunge	0·18	.....	.....	.....	.....	.....	.....	1	0·18	1·99	10·83	57·45	55·99
		Manickgunge	0·39	0·15	0·53	.....	.....	.....	0·34	4	1·31	7·21	8·55	52·82	45·46
		Joydebpore	0·58	.....	.....	0·87	.....	.....	.....	2	1·45	8·02	?	59·91	?
	Hill Tipperah	Agartola	0·45	.....	.....	.....	.....	.....	.....	1	0·45	8·32	11·10	56·23	55·04
	Tipperah	Comilla	0·22	0·05	.....	.....	.....	.....	.....	2	0·27	4·84	11·74	59·03	70·03
		Chandpore	0·60	.....	.....	.....	.....	.....	.....	1	0·60	4·52	13·27	51·06	69·02
		Brahmunberia	0·80	.....	.....	.....	.....	.....	.....	1	0·80	4·02	12·10	49·27	56·02
		Ramchandrapore	0·21	.....	.....	.....	.....	.....	.....	1	0·21	5·87	?	67·66	?
		Nasirnagar	0·50	.....	.....	.....	.....	.....	.....	1	0·50	2·85	?	33·01	?
		Daudkandi	0·15	.....	.....	.....	.....	.....	.....	1	0·15	2·90	?	25·23	?
		Kasba											?		?
		Laksham	1·65	.....	.....	.....	.....	.....	.....	1	1·65	3·63	?	65·33	?
	Mymensingh	Kishoregunge	0·43	.....	0·60	.....	.....	.....	.....	2	1·03	7·96	14·21	62·77	64·51
		Atia (*Tangail*)	1·11	0·18	2·35	.....	.....	.....	0·68	4	4·32	5·55	10·20	47·54	50·10
		Mymensingh	0·54	0·35	2·00	.....	.....	.....	.....	3	2·89	9·86	14·79	69·12	67·92
		Jamalpore	0·54	3·92	5·10	.....	.....	.....	.....	3	9·56	14·10	14·63	68·87	80·77
		Netrokona	1·10	1·00	0·30	.....	.....	.....	.....	3	2·40	10·60	14·51	85·02	74·42
		Subornakhali	.....	2·94	6·55	.....	.....	.....	.....	2	9·49	16·80	?	50·97	?
		Durgapore	.....	2·35	.....	.....	.....	.....	.....	1	2·35	12·45	?	106·24	?
		Shereporo Town	1·08	1·81	4·94	.....	.....	.....	.....	3	7·83	12·58	?	57·93	?
		Dewangunj	2·42	6·30	.....	.....	.....	.....	0·55	3	9·27	10·40	?	62·43	?
North Bengal.	Pubna	Pubna	0·21	0·70	2·51	0·02	.....	.....	.....	4	3·53	8·85	11·71	41·94	49·16
		Serajgunge	0·07	2·32	7·14	.....	.....	.....	.....	3	9·53	15·93	10·03	55·56	47·57
	Bogra	Sherepore	0·48	3·10	5·90	0·02	.....	.....	.....	4	9·50	17·59	10·64	67·09	53·41
		Nowkhilla	0·34	1·33	4·57	.....	.....	.....	.....	3	6·24	11·50	9·77	58·24	48·63
		Bogra	0·82	3·55	8·94	.....	.....	.....	.....	3	13·31	18·44	11·23	67·19	56·05
		Panchbibi	8·50	13·50	2·34	.....	.....	.....	0·15	4	24·49	28·61	11·34	78·56	51·69
	Rajshahye	Beauleah	2·26	1·85	2·17	.....	0·03	.....	.....	4	6·31	10·85	11·05	60·94	48·13
		Nattore	2·38	5·70	5·05	.....	.....	.....	.....	3	13·13	20·82	13·05	77·29	49·87
		Naogaon	5·00	5·08	.....	.....	.....	.....	0·39	3	10·47	14·24	13·01	50·91	40·80
		Lalpore	.....	4·00	2·15	.....	.....	.....	0·32	3	6·47	11·60	?	44·04	?
		Manda	2·00	1·85	.....	.....	.....	0·40	.....	3	4·25	6·95	?	35·47	?
	Maldah	Maldah	3·45	5·05	1·25	0·01	.....	.....	.....	4	9·76	14·43	11·80	57·75	46·74
		Chanchal	3·00	4·60	0·05	.....	.....	.....	.....	3	7·65	11·47	11·15	51·29	53·49
		Gajol	6·36	8·40	0·15	.....	.....	.....	.....	3	14·91	21·96	?	77·88	?
		Sibganj	1·26	2·40	1·82	0·05	.....	.....	.....	4	5·53	7·78	?	49·44	?
	Dinagepore	Mohadebpore	7·80	8·80	.....	.....	.....	.....	.....	2	16·60	18·02	11·04	59·43	53·16
		Churamon	4·12	6·22	.....	.....	.....	.....	.....	2	10·34	16·44	13·20	70·50	50·11
		Raigunge	5·95	6·25	.....	.....	.....	.....	.....	2	12·20	15·75	11·77	78·98	54·94
		Dinagepore	2·93	6·44	0·42	.....	.....	.....	.....	3	9·79	14·00	12·23	73·02	59·37
		Balcorrhat	7·62	6·85	1·00	.....	.....	.....	.....	3	15·47	22·87	11·20	70·62	48·94
		Thakoorgaon	1·57	7·57	0·11	.....	.....	.....	.....	3	9·25	18·42	?	80·73	?
	Rungpore	Buxwanigunge (*Gyabanda*)	0·45	7·05	27·00	.....	.....	.....	0·95	4	35·45	43·07	12·94	103·75	57·80
		Rungpore	1·92	10·40	2·86	.....	.....	.....	.....	3	15·18	23·56	14·78	76·61	69·81
		Kurigram	0·53	5·45	0·76	.....	.....	.....	2·60	4	9·34	21·67	13·90	80·62	69·33
		Bagdogra (*Nilphamari*)	2·75	8·25	0·21	.....	.....	.....	0·08	4	11·29	21·03	16·23	95·99	80·14
		Ulipore	0·95	10·26	5·80	.....	.....	.....	0·45	4	17·46	23·00	?	80·19	?
	Julpigoree	Julpigoree	0·27	3·76	0·06	.....	.....	1·05	0·21	5	5·35	23·53	25·10	139·29	112·19
		Alipore Dooar	0·39	2·75	.....	.....	.....	1·00	1·18	4	5·32	32·25	?	125·38	?
		Fallacotta	.....	3·00	.....	.....	.....	.....	1·63	2	4·63	23·33	?	131·34	?
		Debiganj	1·50	5·35	0·07	.....	.....	.....	0·86	4	8·08	23·64	?	103·34	?
		Bhagatpore (Nagrakatta)	0·09	2·20	0·42	.....	.....	0·99	0·32	5	4·02	38·41	?	168·46	?
	Cooch Behar	Dinhatta	0·87	5·21	0·42	.....	.....	.....	0·29	4	6·79	26·66	19·17	112·26	89·23
		Cooch Behar	0·57	3·66	.....	.....	.....	0·05	0·50	4	4·78	30·41	23·77	157·43	113·52
		Mickilgunge	0·62	4·63	0·06	.....	.....	0·10	.....	4	5·47	20·06	20·70	133·80	101·64
		Mathabhange	0·42	3·55	0·59	.....	.....	0·19	0·75	5	5·50	26·95	21·30	158·41	107·29
	Darjeeling Hill.	Buxa	0·05	1·83	0·56	.....	.....	0·84	0·48	5	3·66	28·86	34·32	191·28	183·32
		Silliguri	0·76	3·90	0·23	.....	.....	1·63	0·87	5	6·84	32·52	15·46	160·85	98·19
		Darjeeling	0·18	6·67	1·95	.....	0·01	0·35	.....	5	9·06	16·35	18·10	139·96	100·56
		Kalimpong	0·10	4·22	1·28	.....	.....	0·44	.....	4	6·04	15·69	10·71	111·00	74·54
		Kurseong	0·58	5·75	2·35	0·04	0·04	0·10	.....	6	8·86	23·29	?	179·21	?
North Behar	Purneah	Kissengunge	1·95	5·10	0·65	.....	.....	.....	.....	3	7·70	16·21	14·60	92·06	66·76
		Arrareah	2·31	2·50	0·50	.....	.....	.....	0·41	4	5·72	17·04	14·44	77·70	69·25
		Purneah	2·50	4·67	0·10	.....	.....	.....	.....	3	7·27	20·90	14·77	82·68	57·07
		Gondwara	3·32										?		?
		Balarampore	6·35	3·15	.....	.....	.....	.....	0·70	3	10·20	15·16	?	88·40	?
		Matiari											?		?
		Kaliagunj	1·00	3·44	.....	.....	.....	0·53	.....	3	4·97	25·23	?	111·68	?
	North Bhagulpor	Maddapore	0·92	5·25	.....	.....	.....	.....	.....	3	6·17	7·37	10·93	58·38	45·27
		Soopool	0·33	5·09	0·06	.....	.....	.....	0·09	4	5·39	9·45	10·15	61·80	44·98
		Protabganj	3·35	.....	.....	.....	.....	.....	.....	1	3·35	8·00	?	46·74	?
	Durbhunga	Tajpore	1·34	4·36	0·33	.....	.....	.....	.....	3	5·73	8·45	8·44	50·97	39·35
		Durbhunga	0·77	3·02	0·51	.....	.....	.....	.....	3	4·30	5·02	9·84	56·19	42·30
		Madhubani	0·17	2·11	0·26	.....	.....	.....	.....	3	2·66	4·27	10·51	60·52	41·92
		Sahora	0·76	5·60	0·30	.....	.....	.....	.....	3	6·66	7·33	?	50·76	?
		Seohere	2·60	0·36	.....	.....	.....	.....	.....	3	2·96	7·83	?	48·29	?
	Mozufferpore	Sitamarhi	0·22	3·53	0·40	.....	.....	.....	0·07	4	4·24	7·37	9·99	50·42	40·31
		Mozufferpore	1·42	2·48	0·72	.....	.....	.....	.....	3	4·62	5·96	10·24	54·57	41·39
		Hajipore	1·54	2·30	0·23	.....	.....	.....	.....	3	4·06	5·29	7·83	47·41	37·71
		Pare	1·57	3·70	1·00	0·30	.....	.....	.....	4	6·57	13·93	?	64·81	?
		Mahua	1·60	0·17	.....	.....	.....	.....	.....	2	1·77	5·00	?	44·03	?
		Sirkar	1·10	3·70	0·30	.....	.....	.....	.....	3	5·00	9·75	?	48·68	?
		Pupri	.....	2·76	.....	.....	.....	.....	.....	1	2·76	4·35	?	49·35	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 3rd of October 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 27th September.	Sunday, 28th September.	Monday, 29th September.	Tuesday, 30th September.	Wednesday, 1st October.	Thursday, 2nd October.	Friday, 3rd October.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of September.	Average total rainfall from 1st of September.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —concluded.	Chumparun...	Motihari ...	0·74	4·12	0·26	.....	.....	.....	.....	3	5·13	10·66	9·03	65·60	40·95
		Bettiah ...	0·60	1·68	0·14	.....	.....	.... .	0·24	4	2·66	7·87	10·48	60·24	45·23
		Bagaha ...										?		?	?
		Burhurwa ...	1·03	2·93	0·11	.....	... ..	0·08	.....	4	4·15	9·26	?	56·32	?
	Sarun ...	Gopalgunge ...	2·43	1·09	.....	.....	.....	.....	.....	2	3·52	7·39	9·53	51·00	39·89
		Sewan ..	1·40	0·45	.....	.....	.....	.....	.....	2	1·85	11·61	9·32	59·03	39·81
		Chuprah ...	1·94	0·17	0·02	.....	.....	.....	.....	3	2·13	5·54	7·57	46·33	36·80
South Behar	Shahabad	Buxar .	2·64	0·44	0·22	.....	.....	.....	.....	3	3·30	8·46	7·67	50·67	38·51
		Dehree ...	2·33	0·43	0·09	.....	.....	0·03	.....	4	2·88	5·29	8·14	42·79	36·62
		Bhaboosh ...	2·45	0·20	0·15	.....	.....	.....	.....	3	2·80	7·91	7·80	40·80	37·19
		Sasseram ...	3·29	0·32	0·24	.....	.....	.....	.....	3	3·85	6·06	7·32	43·35	36·33
		Arrah ...	2·10	1·16	0·19	0·03	.....	0·89	... ..	5	4·37	9·81	7·17	64·56	36·30
		Mohaniah ...	1·00	.....	.....	.....	.....	.....	.....	1	1·00	6·60	?	36·07	?
	Gya ..	Aurungabad...	2·16	0·27	0·04	.....	.....	.....	.....	3	2·47	5·03	7·48	58·98	39·22
		Gya ...	2·96	2·09	0·18	.....	0·02	.....	.....	4	5·25	8·04	7·46	59·72	39·32
		Nowadah ...	2·04	.....	0·09	0·06	.....	.....	.....	3	2·19	3·80	7·34	54·51	36·70
		Johanabad ...	2·68	0·72	0·15	0·10	.....	.....	.....	4	3·65	4·57	5·90	52·93	36·64
		Arwal ...	3·10	2·40	.....	.....	.....	.....	.....	2	5·50	6·60	?	55·43	?
		Daudnagar...	1·00	1·00	.....	.....	.....	.....	.....	2	2·00	4·70	?	29·65	?
		Sherrghati ...	1·05	1·11	0·20	.....	0·05	.....	.....	4	3·31	4·96	?	36·09	
		Rajauli ...	0·30	1·40	.....	0·00	0·28	.....	.....	4	2·86	3·74	?	45·06	
		PakriBarawan	0·35	2·00	.....	.....	1·00	.....	....	3	3·35	4·69	?	52·27	
	Patna ..	Patna ...	1·14	1·51	0·22	.....	.....	.....	.....	3	2·87	4·94	7·37	49·00	38·02
		Dinapore ...	2·40	0 55	0·05	.....	.....	0·07	... ..	4	3·07	9·61	7·24	50·23	37·89
		Behar ...	0·90	3·00	0·10	0·07	.....	. ....	... ..	4	4·07	7·98	6·81	45·85	37·99
		Barrh ...	0.70	4·00	0·30	.....	.....	.....	.....	5	5·00	7·80	7·97	42·00	36 05
		Bickram ...	3·80	0·36	0·11	.....	.....	.....	.....	3	4·07	5·63	?	56·97	?
		Hilsa ...	1·12	2·13	0·11	.....	.....	.....	... ..	3	3·36	7·25	?	49·17	?
	Monghyr ...	Begooserai ...	0·32	2·85	0·05	... ..	.....	. ....	.....	3	3·22	5·84	7·63	42·03	36·30
		Monghyr .	0·24	2·02	0·08	0·03	.....	.....	.....	4	3·27	6·80	9·34	52·48	42·01
		Jamui ...	0·70	1·27	0·13	0·09	.....	0·12	....	5	2·31	5·07	7·61	58·20	40·43
		Gogri ...	0·89	3·88	0·57	.....	.....	.....	.....	3	5·34	7·69	?	72·10	?
		Sheikpura ...	1·30	2·10	.....	.....	.....	.....	.....	2	3·40	4·13	?	45·79	?
	South Bhagulpore	Bhagulpore ...	1·49	1·05	0·01	.....	.....	.... .	... ..	3	4·55	5·68	7·90	54·36	38·51
		Banka ..	0·38	1·66	0·07	0·06	.....	0·26	. ....	5	2·43	3·76	8·05	38·74	39·08
		Kulgong ...	1·40	2·70	0·50	.....	.....	.....	.....	3	4·60	7·89	?	56·29	?
		Bangaon ...											?		?
	Sonthal Pergunnahs.	Rajmehal ...	2·27	4·75	0·62	.....	.... .	... .	.....	3	7·64	10·61	12·55	48·27	48·73
		Godda ...	0·77	1·40	0·98	.....	.....	0·20	.....	4	2·45	3·85	10·03	45·29	41·02
		Pakour ..	2·65	1·06	0·71	0·06	.....	.....	0·16	5	5·54	10·87	13·32	62·13	50·88
		Nya Doomka	0·59	0·94	0·45	0·10	.....	.....	... ..	4	2·08	6·80	11·20	61·76	50·60
		Deoghur ...	1·11	1·09	0·38	0·18	.....	0·34	.....	5	3·10	5·69	9·25	45·59	45·50
		Jamtara ...	0·72	0·28	0·32	0·44	.....	.....	0·32	5	2·08	6·27	7·75	56·35	44·55
		Mohagama ...	1·38	0·15	0·11	0·15	.....	.....	.....	4	1·79	3·21	?	45·53	?
		Nanmat ...	0·71	0·41	1·11	.... .	.....	.....	... ..	3	2 23	4·48	?	27·32	?
Chutta Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	0·80	0·48	... .	0·35	0·07	0·06	.....	5	1·76	6·87	9·17	52·40	43·82
		Hazaribagh ...	1·50	0·74	0·02	0·25	0·47	.....	.....	5	2·98	8·23	8·82	49·09	43·83
		Semtagurah .	1·45	0·12	0·14	0·37	0·10	.....	.....	5	2·18	7·30	8·76	38·29	42·61
		Mahudi Hills											9·50		45·76
		Jhoomra Hills	1·20	.....	0·50	0·60	... ..	. ....	.... .	3	2·30	10·00	11·36	54·90	50·60
		Barhi ...	0·40	0·62	0·22	0·16	.....	0·10	.....	5	1·50	4·79	?	47·34	?
		Chatra ...	0·80	0·70	0·09	.....	1·10	.....	0·08	5	2·77	4·74	?	40·21	?
		Karagdeha ...	0·77	0·30	0·04	0·05	0·34	2·59	... ..	6	4·09	6·01	?	34·38	?
		Kampbar ...	1·62	0·47	.....	2·90	0·40	.... .	.....	4	5·39	9·45	?	48·11	?
	Lohardugga ...	Lohardugga...	1·30	0·40	.....	0·85	0·70	0·40	... ..	5	3·65	7·03	10·27	52·53	46·58
		Ranchi ...	1·70	0·19	.....	0·38	0·84	.....	.....	4	3·11	10·13	9·33	41·87	48·96
		Palamow ...	0·81	0·26	0·03	0·09	0·43	.....	0·07	6	1·03	4·44	8·14	44·18	39·29
		Silli ...	.....	.....	.....	.....	1·10	.....	.....	1	1·10	8·40	?	39·20	?
		Balumat ...											?		?
		Hossinabad	1·25	3·76	.....	.....	... ..	.....	....	2	5·01	9·84	?	41·75	?
		Garwah ...	0·46										?		?
	Singbhoom	Chyebassa ...	1·25	.....	0·07	0·30	0·56	.....	.....	4	2·18	7·74	8·76	32·77	47·77
		Chakradhar-pore.											?		?
		Ghatsilla ...	0·03	0·50	.....	.....	.....	.....	1·35	3	1·88	10·61	?	47·50	?
		Baharagura	0·25										?		?
	Manbhoom ..	Purulia ...	0·55	0·02	0·13	.....	.....	.....	0·07	4	0·77	5·66	8·37	41·26	45·27
		Gobindpore ...	0·56	0·17	0·09	.....	0·08	.....	.....	4	0·90	6·47	7·96	35·14	41·28
		Raghunath-pore.	0·30	.....	.....	.....	.....	.....	.....	1	0·30	8·00	?	58·52	?
		Barrabhoom	0·80	.....	.....	0·05	.....	.....	.....	2	0·85	5·98	?	42·25	?
		Jhalda ...	0·61	0·06	0·12	.....	2·33	.....	3·02	5	6·04	14·17	?	61·55	?
		Chas ...	0·33	.....	.....	.....	0·12	.....	.....	2	0·45	5·53	?	41·98	

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 7th October* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 3RD OF OCTOBER 1890.

At the end of the previous week the depression which had commenced off the Circars was in the Central Provinces, but had ceased to move in a westerly direction, and at the beginning of the present one was moving to the east-north-east. Its influence in Bengal, even when furthest west, was apparent in the easterly winds and general rainfall, but, as from its commencement, wind velocity was generally low. On Saturday the 27th the area of lowest pressure was partly over Chutia Nagpur where pressure was falling briskly, and as there was a general rise elsewhere, the depression diminished very little in intensity. Winds were south-west or south in Lower Bengal, and were beginning to get stronger at the head of the Bay and at some of the stations in South-West Bengal. Moderately heavy rain fall over the whole province on this day, but in the south-east as well as in Orissa weather was improving, and very little rain fell after the first day of the week. On Sunday the 28th, pressure had risen rapidly at the western stations, and the depression was rapidly filling up, but being now well over Bengal, weather was more unsettled, especially in Behar and North Bengal, where very heavy rain was falling. Lowest pressure from being between 29·6 and 29·65 was over 29·75 inches, and moderate southerly winds were blowing in all districts except North Bengal and Behar, where north-east winds of considerable strength continued. As the depression was filling up, thunderstorms with heavy local falls of rain became general over almost the whole province, especially in the north-east corner. One of these gave stormy winds at Mymensingh, and seems to have been somewhat of the nature of a tornado. On the 29th lowest pressure was again over the Circars, but the distribution was rapidly changing, and by the end of the month became very uniform with a diffused low-pressure area covering the whole of the Bay, with a faint indraught across the coast. Light scattered showers fell in Orissa and Chutia Nagpur on the 30th, but elsewhere rain had almost entirely ceased. The tendency to greater uniformity continued on the 1st of October, and the light winds changed from east to west except in Assam, one apparent result of which was the commencement of rainfall in North Bengal, brought by local storms due to the interaction of these opposing currents. Up to the end of the week these showers were confined to North Bengal and were generally light, rarely exceeding one inch.

Pressure was about ·2 inch below the normal at Hazaribagh and Dehree at the beginning of the week, when there was considerable increase in steepness of the gradients over Bengal owing to a brisk fall in Chutia Nagpur and a brisk rise in the eastern districts, the relative change being about ·15 inch. A rapid rise occurred in Chutia Nagpur and South Behar on the 28th, exceeding ·22 inch at Dehree, and though rising over the whole province, the rate diminished rapidly towards the east. The rapid rise continued in the central districts on the 29th, and the area of lowest pressure was forced southwards as far as the Circars, after which pressure rose slowly until the distribution was very uniform over Bengal and the Bay. Mean pressure for the week differs very little from the normal, and is generally above by varying amounts under ·02 inch.

Temperature was very low while the disturbed conditions lasted, and it recovered rapidly after the skies cleared during the latter half of the week. The means are all below the normal, defect being 5·5° in South Behar, 4·9° in North Behar, 3·8° in Chutia Nagpur, 3·5° in North Bengal, 1·8° in South-West Bengal, 1·2° in Orissa, and ·4° in East Bengal, the southern part of which was but slightly affected by the depression. Some very low minimum temperatures were recorded during the week, the lowest being 64·8° in Chutia Nagpur, 65·6° in North Bengal, 66·5° in Behar, and between 71° and 72° in Lower Bengal. On the 27th defect was between 6° and 7° in Behar, but by the following day it had increased to between 10° and 12° at the more western stations, and on the 29th in the whole of Behar and North Bengal. After the filling up of the depression there was a rapid rise in these districts, and a steady rise continuing, defect by the end of the week was replaced by an excess of about 3° in the lower districts and 1° in Behar and North Bengal.

Rainfall was general and rather heavy in Behar, Chutia Nagpur, and South-West Bengal on the 27th. On the 28th it was much heavier in the northern districts and lighter in Chutia Nagpur and South-West Bengal, many of the falls in Behar and North Bengal being over 5 inches. The area of heavy rainfall was transferred gradually to the east, and on the 29th only a few heavy showers fell in the contiguous parts of East and North Bengal, after which rain almost entirely ceased except in the south west corner, where fairly general light showers fell. The mean falls for the week are all largely above the normal except in Orissa where there is a small excess, and in East Bengal where there is defect of ·7 inch. The very heavy rainfall of the first three days of the week in North Bengal is shown by the weekly mean for the whole district being 11·1 inches, or 9·36 inches in excess of the normal. In North Behar excess is 2·78, in South Behar 2·49, in South-West Bengal 2·77, and in Chutia Nagpur 1·13 inches. In East Bengal falls were generally below 1 inch except in the Mymensingh district, where they varied between 1 and 10 inches, in South-West Bengal and Orissa they ranged up to 7 inches, in North Bengal they were generally between 5 and 10 inches, the heaviest being Panchibi 24·49, Ulipore 17·46, and Mohadebpore 16·6, Baloorghat and Rungpore over 15 inches, and in Behar and Chutia Nagpur they were nearly all between 2 and 4 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 3rd of October 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of September.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	93·4	73·8	87·3	77·7	82·5	−1·3	2·04	1·75	+0·29	2·9	2·5	+0·4	17·52	10·91	52·36	45·44
South-West Bengal ...	93·3	71·7	86·3	76·3	81·3	−1·8	4·01	1·24	+2·77	3·7	2·2	+1·5	9·46	9·52	48·68	47·12
East Bengal	91·3	71·1	87·1	76·5	81·8	−0·4	1·31	2·01	−0·70	1·7	2·7	−1·0	7·30	12·78	64·77	67·83
North Bengal	90·7	66·6	83·8	73·5	78·7	−3·5	11·10	1·74	+9·36	3·5	2·3	+1·2	19·55	14·05	83·19	64·77
North Behar	92·8	66·5	82·7	72·7	77·7	−4·9	4·58	1·80	+2·78	3·0	1·6	+1·4	9·58	10·52	60·90	45·09
South Behar	90·7	67·3	82·1	73·1	77·6	−5·5	3·52	1·03	+2·49	3·8	1·5	+2·3	6·63	8·34	50·92	40·06
Chutia Nagpur	86·0*	64·8*	78·9*	69·1*	73·5*	−3·8*	2·13	1·00	+1·13	4·6	1·8	+2·8	7·04	9·12	43·88	45·52

* Chyebassa not included.

Meteorological Office, Bengal ;
The 7th October 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of September 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29 694		
The average pressure of September from 24 years' registers ...	29·682		
The highest pressure in the month	29·906	30th	10
The lowest pressure in the month	29 537	15th	16
The range of pressure	0·369		
	Hours.		
The total number of hours of bright sunshine during the month	131·3		
The maximum possible number of hours of sunshine ...	367·0		
	°		
The mean temperature of the month	82·5		
The average temperature of September from 24 years' registers	83·3		
The highest temperature in the month	92·7	5th	
The lowest temperature in the month	71·8	27th.	
The range of temperature during the month	20·9		
The mean daily range of temperature	10·7		
The greatest range of temperature in one day	16·4	5th.	
	Per cent.		
The mean humidity of the month	87		
The average humidity of September from 24 years' registers ...	85		
	Inches.		
The mean vapour pressure of the month	0·966		
The average vapour pressure of September from 9 years' registers	0·987		
The mean cloud proportion of the month	6·35		
The average cloud proportion of September from 13 years' registers	7·09		
The total rainfall of the month	12·53		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	11·92		
The average fall of September from 48 years' registers ...	10·18		
The greatest fall in 24 hours	3·41	27th.	
	Days.		
The number of rainy days in the month	18		
The average number of rainy days in September from 24 years' registers	21		
	°		
The mean maximum equilibrium temperature of solar radiation during the month	145·0		
The mean difference of sun and air temperatures	57·5		
The greatest sun temperature	161·4	12th.	
The greatest excess of sun over air temperature	70·6	12th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	75·2		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	2·0		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	3·1	30th.	
	Miles.		
The mean movement of the wind per day	70·7		
The greatest movement of the wind in one day	176·0	23rd.	
The greatest movement of the wind in one hour	13·0	23rd noon to 1 P.M.	

The number of hours with winds from each of the 8 points—

N. 1, N.E. 17, E. 167, S.E. 172, S. 115, S.W. 69, W. 8, N.W. 3, Calm 168.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently equal; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer which is the standard of reference at the present Observatory.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 6th October 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 28th September to 4th October 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Sept.	28th	147·4	1·5	29·743	78·8	84·5	11·1	73·4	76·9	0·899	76·0	91	S by E, SSW and SE by S.	120	2·75	Chiefly clou d y, g, p, d, t.
,,	29th	14·59	6·1	·813	79·8	85·9	12·2	73·7	77·6	·921	76·7	90	SE, calm and variable.	48	0·99	Partially cloudy, o, p.
,,	30th	147·8	9·8	·843	81·0	86·5	12·2	74 3	77·7	·905	76·2	86	ESE and calm ...	17	Nil	Chiefly clear, ≏, =.
Oct.	1st	146·7	8·7	·841	82·1	87·7	11·3	75·9	78·4	·923	76·8	84	Calm and variable	19	,,	Chiefly, clear.
,,	2nd	148 5	10·7	·820	82 9	88·5	11·8	76·7	79·3	·953	77·8	85	SW and calm ...	50	,,	Chiefly, clear.
,,	3rd	151·5	9·2	·786	82·6	89·7	12·0	77·7	79·1	·952	77·7	86	SW by S, SW and variable.	74	0·33	Chiefly, clear, o, g, t, p. ≤.
,,	4th	144·4	6·5	·750	80·7	86·4	12·2	74·2	77·4	·897	75·9	86	SW by W and calm	32	0.5	Partially cloudy, o, d, t.

		Inches.
The mean pressure of the seven days		29·799
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·750
		Hours.
The total number of hours of bright sunshine		52·5
The maximum possible number of hours of sunshine		83·3
		°
The mean temperature of the seven days		81·1
The average temperature of the corresponding period for 24 years, S.-G.'s Office		83·4
The extreme variation of temperature		16·3
The maximum temperature		89 7
		Miles.
The highest velocity of the wind in one hour		10
		lbs.
The highest pressure of wind on one square foot	Approximately	6
		%
The mean relative humidity		87
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		83
		Inches.
The total fall of rain from 28th September to 4th October 1890		4·12
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		1·62
The total fall from 1st January to 4th October 1890		53·08
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		59·76

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; p, passing temporary showers; d, drizzling rain; t, thunder; ≏, dew; =, fog; ≤, lightning.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 6th October 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of September 1890.

	Inches.	Date.
The mean pressure at 10 A.M during the month	29·753	
	°	
The mean temperature at 10 A.M. during the month	85·3	
The highest temperature during the month	94·0	5th.
The lowest temperature during the month	74·6	28th.
The absolute range of temperature during the month	19·4	
The mean daily range of temperature during the month ...	11 1	
The greatest range of temperature in one day during the month ...	16 7	16th.
	%	
The mean 10 A.M. humidity during the month	80	
	Inches.	
The mean 10 A.M. vapour pressure during the month	·973	
The total rainfall of the month	11·60	
The greatest fall in 24 hours	3·02	27th.
	Days.	
The number of rainy days in the month	19	

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 6th September 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 28th September to 4th October 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE. Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	HYGROMETRY. Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	Rainfall part 24 hours.
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
September...	28th ...	29·762	79·8	84·9	10·3	74·6	83·6	80·5	1·001	79·3	87	0·72
,, ...	29th ...	·863	80·4	85·9	11·1	74·8	81·6	79·5	·981	78·7	91	2·60
,, ...	30th ...	·915	81·8	88·8	14·0	74·8	84·9	79·5	·936	77·2	78	0·12
October ..	1st ...	·913	83·2	90·0	13·6	76·4	86·6	79·5	·914	76·5	72	...
,, ...	2nd ...	·888	83·8	90·4	13·2	77·2	87·0	79·5	·908	76·3	71	...
,, ...	3rd ...	·859	85·1	90 0	13·8	78·2	86·6	81·5	1·008	79·5	80	...
,, ...	4th ...	·826	82·2	89·0	13·7	75·3	83·0	78·5	·916	76·6	81	0·33

	Inches.
The mean 10 A.M. pressure of the seven days	29·861
The mean temperature of the seven days	82·3
The extreme variation of temperature	17·4
The maximum temperature	92·0
	%
The mean 10 A.M. relative humidity of the seven days	80
	Inches.
The total fall of rain from 28th September to 4th October 1890 ...	4·07

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 6th October 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 20th September 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 20th September 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 26·6 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 2·5 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885 and 1889—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of births per 1,000 of the population per annum	27·5	23·4	18·4	22·1	28·9	24·1	26·6

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	Towns.	Weeks ending— 30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.
Burdwan	27·5	53·4	33·6	21·4	Narainganj	12·4	29·0	20·7	37·3
Midnapore	17·0	17·0	9·3	13·9	Chittagong	4·7	9·4	9·4	4·7
Hughli and Chinsurah	29·5	39·4	39·4	39·4	Comillah	34·7	27·0	11·6	19·3
Serampore	31·4	39·3	31·4	45·1	Patna City	10·1	17·2	15·3	14·6
Utterpara	9·4	37·7	37·7	37·7	Gya	26·0	30·1	26·0	42·4
Howrah	17·2	13·2	21·8	21·8	Arrah	16·7	79·0	16·7	57·4
Bali	14·0	10·5	17·5	10·5	Mozufferpore	9·7	25·5	7·3	25·5
Krishnagar	21·4	34·1	26·5	17·0	Durbhanga	37·0	22·0	22·8	37·0
Ranaghat	.....	6·0	.....	12·0	Chupra	4·0	25·2	28·2	38·2
Santipore	7·0	22·8	26·3	14·0	Bhagulpore	25·3	30·8	30·8	19·9
Jessore	.....	.....	12·2	.....	Monghyr	28·0	45·2	38·9	46·1
Rampore Beauleah	42·0	34·2	39·4	57·8	Purneah	10·4	20·8	10·4	10·4
Darjiling	33·4	29·6	37·0	37·0	Poori	4·2	10·5	14·7	12·6
Dacca	16·9	11·7	14·9	15·6	Total ...	19·0	26·3	22·0	26·6

It will be seen that last week the highest birth-rate was returned from Rampore Beauleah (57·8), and the lowest from Chittagong (4·7). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23·4 per 1,000 of the population. The rate of the week is 7·4 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of deaths per 1,000 of the population per annum	37·4	31·5	22·5	25·7	33·6	30·3	23·4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	Towns.	Weeks ending— 30th August 1890.	6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.
Burdwan	24·4	16·8	29·0	19·8	Narainganj	12·4	16·6	16·6	16·6
Midnapore	9·3	17·0	20·1	17·0	Chittagong	9·4	18·8	9·4	14·1
Hughli and Chinsurah	30·1	18·1	37·7	24·6	Comillah	11·6	19·3	27·0	19·3
Serampore	33·4	45·2	59·0	29·4	Patna City	16·2	26·9	20·4	14·9
Utterpara	28·3	28·3	28·3	28·3	Gya	58·7	58·1	40·3	38·9
Howrah	19·5	10·9	13·7	13·2	Arrah	8·4	29·9	15·8	35·9
Bali	31·6	14·0	10·5	38·8	Mozufferpore	19·5	29·7	24·3	26·6
Krishnagar	9·5	11·4	22·7	11·4	Durbhanga	44·8	39·3	22·8	36·2
Ranaghat	12·0	12·0	6·0	29·9	Chupra	11·1	62·5	39·2	28·2
Santipore	8·8	16·8	19·3	14·0	Bhagulpore	19·0	23·5	18·1	17·8
Jessore	18·4	36·7	42·8	18·4	Monghyr	21·7	27·1	21·7	35·3
Rampore Beauleah	21·0	18·4	39·4	31·5	Purneah	20·8	10·4	13·9	17·3
Darjiling	44·5	59·3	14·8	14·8	Poori	25·2	46·3	31·5	21·0
Dacca	20·1	13·0	28·5	21·4	Total ...	22·9	29·4	24·7	23·4

It will be seen that last week the highest mortality occurred in the town of Gya (38·9) and the lowest in Krishnagar (11·4).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Chupra	10·1	Arrah	25·1	Gya	15·7
Durbhanga	9·4	Bali	24·6	Poori	10·5
Mozufferpore	4·9	Ranaghat	23·9		
Patna City	4·2	Rampore Beauleah ...	23·6		
		Gya	21·8		

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2·3 from cholera, against 3·5 per 1,000 in the preceding week; 3 from injury, against ·5; and 7·2 from other causes, against 7·. Fever and bowel-complaints exhibit the same ratios as in the preceding week, viz. 11· and 2·6 per 1,000 respectively. No death was recorded under the head small-pox during the week under review.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	24·4	Christians ...	14·9	Under 1 year ...	225·2
Females	22·2	Hindus ...	23·3	1 and under 5 years ...	34·1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	110	Mahomedans ...	23·8	5 „ 10 „ ...	14·1
				10 „ 15 „ ...	9·7
				15 „ 20 „ ...	12·2
				20 „ 30 „ ...	9·9
				30 „ 40 „ ...	11·9
				40 „ 50 „ ...	18·7
				50 „ 60 „ ...	25·6
				60 years and upwards ...	62·5

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 6th October 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 20th September 1890.

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.															Sex.			
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.						Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		
Districts.	Names of Municipalities.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,069	16,617	34,686	9	5	14	13·7	7·6	21·4	180	...	...	7	1	1	4	13	...	...	10·7	1·5	1·5	6·1	19·8	29·0	7	6	20·2	19·5	103
Midnapore ...	Midnapore ..	16,927	16,633	33,560	5	4	9	7·7	6·2	13·9	125	...	...	3	2	...	6	11	...	...	4·6	3·1	...	9·3	17·0	20·1	9	2	27·6	6·3	438
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	15	9	24	24·6	14·8	39·4	166	...	...	8	1	...	6	15	...	...	13·1	1·6	...	9·8	24·6	37·7	9	6	29·5	19·7	150
Serampore ...	Serampore ...	13,659	12,937	26,496	18	5	23	35·3	9·8	45·1	360	...	...	4	5	1	5	15	...	...	7·8	9·8	2·0	9·8	29·4	53·0	10	5	38·4	20·1	191
	Uttarpara	5,046	2,464	5,510	2	2	4	18·8	18·8	37·7	100	...	...	1	...	...	2	3	...	...	9·4	...	...	18·8	28·3	28·3	2	1	34·1	21·1	161
Howrah ...	Howrah	53,153	37,660	90,813	18	20	38	10·3	11·5	21·8	90	...	...	14	2	...	7	23	...	...	8·0	1·1	...	4·0	13·2	13·7	13	10	12·7	13·8	92
	Bali	7,836	6,979	14,815	2	1	3	7·0	3·5	10·5	200	...	...	7	2	1	1	11	...	...	24·6	7·0	3·5	3·5	38·6	10·5	6	5	39·8	37·3	106
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	9	...	9	17·0	...	17·0	No female birth.	...	...	3	...	...	3	6	...	...	5·7	...	...	5·7	11·4	23·7	4	2	15·7	7·3	215
	Renaghat	4,028	4,655	8,683	1	1	2	6·0	6·0	12·0	100	...	...	4	...	...	1	5	...	...	23·9	...	...	6·0	29·9	6·0	3	2	38·7	22·3	173
	Santipore	13,708	15,979	29,687	3	5	8	5·2	8·8	14·0	60	...	...	4	1	1	2	8	...	...	7·0	1·7	1·7	3·5	14·0	19·3	4	4	15·2	13·0	116
Jessore ...	Jessore	4,930	3,565	8,495	...	...	...	...	...	...	...	...	...	1	1	...	1	3	...	...	6·1	6·1	...	6·1	18·4	42·8	2	1	21·5	14·2	151
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	11	11	22	28·9	28·9	57·8	100	...	...	9	...	...	3	12	...	...	23·3	...	...	7·9	31·5	39·4	4	8	19·3	46·1	42
Darjiling ...	Darjiling	4,579	2,439	7,018	3	2	5	22·2	14·8	37·0	150	...	...	2	...	...	...	2	...	...	14·8	...	...	...	14·8	14·8	2	...	22·7	...	No female death.
Dacca ...	Dacca	43,782	37,379	80,161	12	12	24	7·8	7·8	15·6	100	3	...	13	8	...	9	33	1·9	...	8·4	5·2	...	5·8	21·4	28·5	24	9	29·2	12·5	233
	Narainganj ...	7,695	4,866	12,561	6	3	9	24·3	12·4	37·3	200	...	...	2	...	...	2	4	...	...	8·3	...	...	8·3	16·6	16·6	3	1	20·5	10·5	195
Chittagong ...	Chittagong ...	13,340	8,790	22,130	1	1	2	2·3	2·3	4·7	100	...	...	3	...	...	3	6	...	...	7·0	...	...	7·0	14·1	9·4	3	3	11·7	17·7	66
Tipperah ...	Comillah	8,153	5,383	13,536	2	3	5	7·7	11·6	19·3	66	...	...	3	...	...	2	5	...	...	11·6	...	...	7·7	19·3	27·0	3	2	19·1	19·4	98
Patna	Patna City ...	78,762	81,475	160,237	31	14	45	10·1	4·5	14·6	221	13	...	12	7	1	13	46	4·2	...	3·9	2·3	·3	4·2	14·9	20·4	20	26	13·2	16·6	79
Gya	Gya	38,290	37,831	76,121	29	33	62	19·8	22·5	42·4	88	2	...	32	...	...	23	57	1·4	...	21·8	...	...	15·7	38·9	40·3	21	36	28·5	49·5	57
Shahabad ...	Arrah	20,960	22,505	43,465	24	24	48	28·7	28·7	57·4	100	2	...	21	...	...	7	30	2·4	...	25·1	...	...	8·4	35·9	15·6	15	15	37·2	34·7	107
Mozufferpore .	Mozufferpore ...	23,084	19,658	42,742	9	12	21	10·9	14·6	25·5	75	4	...	12	1	...	5	22	4·9	...	14·6	1·2	...	6·1	26·8	24·3	12	10	27·0	26·5	102
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	26	21	47	20·5	16·5	37·0	124	12	...	18	6	...	10	46	9·4	...	14·2	4·7	...	7·9	36·2	22·8	24	22	37·0	35·4	104
Saran	Chupra	25,116	26,554	51,670	22	16	38	23·1	16·1	38·2	137	10	...	5	4	...	9	28	10·1	...	5·0	4·0	...	9·1	28·2	39·2	17	11	35·2	21·5	163
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	12	10	22	10·9	9·0	19·9	120	...	...	11	...	...	8	19	...	...	10·0	...	...	7·2	17·2	18·1	11	8	19·3	15·0	128
Monghyr ...	Monghyr	28,154	29,366	57,520	31	20	51	23·0	18·1	46·1	155	...	...	15	9	1	11	39	...	...	16·3	5·1	·9	9·9	35·3	21·7	20	19	36·9	33·6	109
Purneah ...	Purneah	8,463	6,553	15,016	...	3	3	...	10·4	10·4	No male birth.	...	...	5	...	...	...	5	...	...	17·3	...	...	...	17·3	13·9	1	4	6·1	31·7	19
Pooree	Pooree	13,247	11,537	24,784	1	5	6	2·1	10·5	12·6	20	...	...	2	3	...	5	10	...	...	4·2	6·3	...	10·5	21·0	31·5	10	...	39·3	...	No female death.
	Total ...	550,986	510,588	1,061,574	302	242	544	14·8	11·8	26·6	124	46	...	224	53	6	148	477	2·3	...	11·0	2·6	·3	7·2	23·4	24·7	259	218	24·4	22·2	110

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO— Class. Deaths among—					Ratio per 1,000 of Population per annum.				
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	...	6	7	...	...	...	13·2	35·5	...	...
Midnapore	Midnapore	...	9	2	...	...	...	18·0	14·4	...	...
Hughli	Hughli and Chinsurah	...	10	5	...	...	...	20·6	42·2	...	...
Serampore	Serampore	...	12	3	...	...	...	24·7	166·3	...	...
	Utterpara	...	3	...	...	...	...	29·3	..	...	...
Howrah	Howrah	1	17	5	...	...	27·5	13·0	12·7	...	...
	Bali	...	7	4	...	...	...	27·1	158·7	...	...
Nuddea	Krishnagar	...	4	2	...	...	...	11·2	12·6	...	...
	Ranaghat	...	5	..	...	...	...	35·5	...	...	...
	Santipore	...	7	1	...	...	...	17·6	5·8	...	...
Jessore	Jessore	...	1	2	...	...	...	11·5	27·3	...	...
Rajshahye	Rampore Beauleah	...	6	8	...	...	...	21·0	42·4	...	...
Darjiling	Darjiling	...	2	...	...	...	...	22·6	..	...	...
Dacca	Dacca	...	23	10	...	...	...	29·7	13·2	...	...
	Naraingunj	...	1	8	...	...	...	8·2	25·3	...	...
Chittagong	Chittagong	1	1	4	...	...	66·3	9·0	13·6	...	...
Tipperah	Comillah	...	1	6	...	...	...	8·7	28·1	...	...
Patna	Patna City	...	35	11	...	...	...	15·3	14·0	...	...
Gya	Gya	...	50	7	...	...	...	43·3	22·6	...	...
Shahabad	Arrah	...	19	11	...	...	...	31·9	46·1	...	...
Mozufferpore	Mozufferpore	...	18	4	...	...	...	31·2	16·7	...	...
Durbhanga	Durbhanga	...	32	14	...	...	...	34·4	41·4	...	...
Saran	Chupra	...	17	11	...	...	...	22·3	48·0	...	...
Bhagulpore	Bhagulpore	...	15	4	...	...	...	19·6	12·1	...	...
Monghyr	Monghyr	...	30	9	...	...	...	34·9	37·2	...	...
Purneah	Purneah	...	1	4	...	...	...	5·7	36·7	...	...
Poori	Poori	..	10	..	...	...	...	21·3	...	...	...
	TOTAL	2	340	135	...	...	14·9	23·3	23·8	...	...

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO— Age. Deaths.										Ratio per 1,000 of Population per annum.									
		Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	2	...	1	...	...	2	1	3	1	3	157·6	...	22·3	...	...	13·1	7·5	35·3	21·2	105·3
Midnapore	Midnapore	2	...	...	...	...	...	1	4	1	3	140·0	...	...	...	...	...	9·4	55·8	25·2	85·2
Hughli	Hughli and Chinsurah	5	2	...	2	...	1	2	1	1	1	323·8	46·9	...	41·9	...	8·4	18·2	12·5	20·0	25·1
Serampore	Serampore	3	1	1	..	1	...	...	3	1	5	219·7	28·8	20·7	...	23·8	...	...	46·2	27·2	186·9
	Utterpara	1	...	...	1	...	...	...	...	...	1	323·0	...	...	108·6	...	...	...	...	...	200·0
Howrah	Howrah	4	5	...	1	1	2	4	3	1	2	100·8	46·9	...	7·9	7·1	4·6	18·8	13·3	9·5	27·7
	Bali	3	1	3	...	...	...	..	...	1	3	430·9	52·1	146·3	...	...	...	...	...	49·6	213·1
Nuddea	Krishnagar	4	...	...	...	...	...	...	...	1	1	419·4	...	...	...	...	...	...	...	24·7	30·1
	Ranaghat	...	...	1	1	...	...	1	...	2	...	...	...	46·6	59·9	...	...	41·7	...	143·6	...
	Santipore	3	1	...	1	...	...	2	...	...	1	184·6	17·9	...	17·9	...	...	24·0	...	...	26·5
Jessore	Jessore	...	1	...	...	..	1	...	1	...	...	...	105·3	...	...	...	25·8	...	49·5	...	...
Rajshahye	Rampore Beauleah	3	1	4	2	...	...	...	2	...	...	384·2	36·7	100·0	57·7	...	...	...	42·4	...	...
Darjiling	Darjiling	...	2	...	...	...	...	...	...	...	...	...	161·7	...	...	...	...	...	...	...	...
Dacca	Dacca	5	2	3	3	3	5	1	6	1	4	137·0	14·1	15·7	19·6	21·4	17·0	4·5	37·2	11·0	37·3
	Naraingunj	1	1	...	...	...	...	1	..	...	1	186·4	45·6	...	...	...	...	24·3	...	...	79·8
Chittagong	Chittagong	2	1	1	...	...	1	...	1	...	...	184·7	26·4	20·8	...	...	11·2	...	23·0	...	...
Tipperah	Comillah	2	1	...	...	1	...	...	1	...	...	350·2	39·8	...	...	41·3	...	...	39·6	...	...
Patna	Patna City	5	8	3	1	3	6	3	2	3	12	60·3	28·5	9·3	3·6	14·0	10·8	6·7	5·5	11·0	45·2
Gya	Gya	11	10	...	3	3	3	7	4	5	11	319·6	81·8	...	23·2	29·8	10·6	28·6	21·3	39·6	111·1
Shahabad	Arrah	9	1	2	...	...	3	4	3	2	6	363·4	11·7	20·3	...	...	19·9	32·3	33·3	33·6	103·2
Mozufferpore	Mozufferpore	4	6	1	1	1	4	1	.	3	2	217·3	77·2	11·6	13·1	17·2	24·2	7·5	...	32·0	43·7
Durbhanga	Durbhanga	8	6	5	2	1	4	4	6	5	5	267·2	41·0	33·2	18·7	12·9	15·6	18·6	41·9	59·3	81·4
Saran	Chupra	8	3	1	...	2	3	2	...	4	5	294·8	30·2	8·7	...	30·0	16·9	13·4	...	50·3	76·4
Bhagulpore	Bhagulpore	7	...	...	...	1	2	3	1	2	3	304·9	...	...	...	12·4	9·5	16·8	8·3	24·4	43·3
Monghyr	Monghyr	12	7	4	...	2	2	3	1	1	7	420·2	58·5	29·5	...	27·5	10·1	17·5	8·2	13·1	101·5
Purneah	Purneah	3	...	...	...	...	1	...	...	1	...	551·2	...	...	...	...	15·8	...	...	55·5	...
Poori	Poori	3	1	...	...	...	...	...	3	..	3	514·9	28·9	...	...	...	...	...	46·9	...	86·4
	TOTAL	110	61	30	18	19	40	40	45	35	79	225·3	34·1	14·1	9·7	12·3	9·9	11·9	19·7	23·5	62·5

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 6th October 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 4th October 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 4th October 1890.			Week ending Saturday, the 5th October 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	345	71,750	862	317	60 765	953
Jute	242	86,095	1,634	194	93,350	1,636
Firewood	136	74,475	989	158	67,825	1, 74
Other articles	1,155	2,17,505	3,718	786	1,35,550	1,982
Total ...	1,878	5,02,825	7,203	1,455	3,57,490	5,645

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of July 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	858	.....	1,403	.....	1,216	1,493	.....	277
Cotton, raw	.....	5	.....	13	5	13	.....	8
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	271	.....	232	1	271	233	38	.....
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	14	50	110	53	64	163	.....	99
5.—Others	44	15	50	834	59	884	.....	825
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	.....	23	.....	28	23	28	.....	5
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrewed	.....	47	.....	808	47	808	.....	761
2.—Gunny-bags and cloth	3	1	9	10	4	19	.....	15
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	80	7	78	19	87	97	.....	10
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	146	.....	130	.....	146	130	16	.....
3.—Others	182	.....	115	.....	182	115	67	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	152	313	59	396	465	455	10	.....
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	.....	638	1	152	638	153	485	.....
3.—Others	34	12	24	68	46	92	.....	46
Railway plant and rolling-stock	.....	.....	68	138	116	206	.....	91
Salt	426	.....	306	.....	426	306	120	.....
Sugar—								
1.—Drained	39	153	10	369	192	379	.....	187
2.—Undrained	30	38	46	40	68	86	.....	28
Tobacco								
All other articles of merchandise—								
1.—Unmanufactured	1,777	463	702	310	2,240	1,012	1,228	.....
2.—Manufactured								
Total ...	4,050	1,765	3,438	3,249	6,294	6,698	1,964	2,368

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of July 1890.

	Tons.
Decreases.	
Coal	277
Sufficiency of stock for railway and flotilla purposes.	
Unscrewed jute	761
Due to dulness of the Calcutta market. The decrease was almost exclusively in despatches from Khoolna.	
Sugar	187
Due to the successful competition of raw sugar from Java.	
Increases.	
Betel-nuts	485
From the Bengal Central Flotilla station exclusively.	

CALCUTTA, *the 24th September* 1890.

F. P. QUINLAN,
Joint Auditor and Examiner of Accounts.

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of July 1890, *as compared with the same month of the previous year.*

Staples.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	907	.....	1,424	.....	907	1,424	517	.....
Cotton, raw	4	.....	5	.....	4	5	1	.....
Cotton piece-goods—								
1.—European	23	.....	19	.....	23	19	.....	4
Grains—								
2.—Rice	29	23	153	18	52	166	114	.....
4.—Others	11	11	107	.....	22	107	85	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	1	.....	3	1	3	2	.....
Jute—								
2.—Gunny-bags and cloths	2	1	2	8	3	10	7	.....
Lac—								
1.—Stick	2	.....	.....	1	2	1	.....	1
Metals—								
2.—Iron	.....	.....	6	.....	.....	6	6	.....
4.—Others	1	2	3	7	3	10	7	.....
Oils—								
1.—Castor	1	.....	2	.....	1	2	1	.....
2.—Kerosine	3	.....	3	.....	3	3	.....	.....
3.—Others	2	.....	1	.....	2	1	.....	1
Oilseeds—								
2.—Mustard and rape	31	.....	54	.....	31	54	23	.....
Provisions—								
1.—Ghee	1	.....	1	.....	1	1	.....	.....
2.—Others	4	32	5	104	36	109	73	.....
Paper and pasteboard	3	.....	4	.....	3	4	1	.....
Railway plant and rolling-stock	9	14	58	4	23	62	39	.....
Salt	72	.....	64	.....	72	64	.....	8
Silk, raw—								
2.—Indian	.....	8	7	23	8	30	22	.....
Silk piece-goods—								
2.—Indian	.....	5	.....	.....	5	.....	.....	5
Stone and lime	9	.....	3	1	9	4	.....	5
Sugar—								
1.—Drained	28	.....	11	.....	28	11	.....	17
2.—Undrained	3	.....	31	.....	3	31	28	.....
Tobacco	24	.....	16	5	24	21	.....	3
Timber	7	.....	16	.....	7	16	9	.....
All other articles of merchandise	67	29	44	6	96	50	.....	46
Total	1,245	136	2,039	175	1,369	2,214	935	9

	Tons.
Increase.	
Coal	517
Due to increased demand.	
Grains—	
(2) Rice	144
This is due to greater export from intermediate stations.	
(4) Others	85
Due to import of paddy for greater demand.	
Oil-seeds—	
(2) Mustard and rape	23
Due to greater demand.	

	Tons.
Provisions—	
(3) Others	73
Due to greater export of fresh fruits from Azimganj, chiefly jack fruits.	
Railway plant and rolling-stock	39
Due to greater despatches of railway materials.	
Silk, raw—	
(2) Indian	22
Due to greater despatch of silk to Europe this year.	
Sugar—	
(2) Undrained	28
Due to sudden demand.	
DECREASE.	
Sugar—	
(1) Drained	17
Due to despatches from Calcutta by steamer.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*228,649	*2,40,249 11 6	19,53,614 10	4,49,518 6 0	16,614 14 1	7,06,082 15 1	61,866	80,448½	142,314½
Or per mile of railway	.....	157 7 10	.....	294 13 10	10 14 3	463 3 11	.....	.....	....
For previous 12 weeks of half-year	2,616,364	26,15,259 12 0	2,18,53,282 10	48,77,479 0 6	1,02,296 1 9	76,85,034 14 3	757,091	891,766½	1,648,857½
Total for 13 weeks ...	2,845,013	28,55,509 7 0	2,38,06,896 20	53,27,297 6 6	2,08,910 15 10	83,91,717 13 4	818,957	972,214½	1,791,171½
COMPARISON.									
Total for corresponding week of previous year	247,883½	2,70,892 5 10	22,37,002 30	4,63,008 12 0	16,328 5 10	7,51,129 7 8	65,838	78,928	144,766
Per mile of railway corresponding week of previous year ...	.....	177 9 2	.....	304 1 8	10 11 3	492 6 1	.....	.....	.....
Total to corresponding date of previous year	3,105,298	30,93,260 13 1	2,76,75,074 30	57,63,234 12 5	2,15,280 9 6	90,71,776 3 0	848,523	1,053,584	1,902,112

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included receipts for pilgrim traffic from Gya on account of "Aupar Puckshe."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th September 1889.			Receipts for week ending 27th September 1890.			Total receipts from 1st April 1889 to 28th September 1889.			Total receipts from 1st April 1890 to 27th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	7,51,129	492	1,525½	7,06,668	463	1,525½	2,10,98,527	532	1,525½	1,96,16,648	492	.....	13,82,879

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*12,356	*6,351 8 0	31,017 30	2,303 13 0	32 5 0	8,687 10 0	1,372	452	1,824
Or per mile of railway	216	111 0 8	542 20	40 4 5	0 9 0	151 14 1	.....	.....	.....
For previous 12 weeks of half-year	113,660	57,682 6 0	3,77,536 20	23,670 8 0	505 12 0	81,858 10 0	12,021	6,815	18,836
Total for 13 weeks ...	126,016	64,033 14 0	4,08,554 10	25,974 5 0	538 1 0	90,546 4 0	13,393	7,267	20,660
Comparison.									
Total for corresponding week of previous year	21,934	13,605 1 8	23,485 20	2,108 9 0	38 13 0	15,752 7 8	2,081	427	2,508
Per mile of railway corresponding week of previous year ...	383½	237 13 7	410 30	36 13 10	0 10 10	275 6 3	.....	.....	....
Total to corresponding date of previous year	186,426	1,04,740 11 10	6,17,517 30	29,582 11 0	558 2 3	1,34,887 0 1	17,677	8,932	26,609

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included receipts for pilgrim traffic from Gya on account of "Aupar Pucksha."

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th September 1889.			Receipts for week ending 27th September 1890.			Total receipts from 1st April 1889 to 28th September 1889.			Total receipts from 1st April 1890 to 27th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	15,752	275	57½	8,688	152	57½	2,48,883	167	57½	2,17,291	146	...	31,592

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, *on* 22¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,621	3,662 13 0	5,645 30	207 14 0	4 2 0	3,874 13 0	922	46	968
Or per mile of railway	.....	164 9 11	.....	9 5 6	0 3 0	174 2 5	.....	.....	.....
For previous 12 weeks of half-year	202,721	49,659 11 0	54,455 20	2,348 7 0	71 8 0	52,079 10 0	10,772	558	11,330
Total for 13 weeks ...	217,342	53,322 8 0	60,101 10	2,556 5 0	75 10 0	55,954 7 0	11,694	604	12,298
Comparison.									
Total for corresponding week of previous year	17,758	4,491 6 6	9,875 0	336 8 0	10 2 0	4,838 0 6	904	64	968
Per mile of railway corresponding week of previous year ...	.....	201 13 9	... ...	15 2 0	0 7 3	217 7 0	... ..	... .	...
Total to corresponding date of previous year	226,785	54,062 15 10	74,488 20	2,479 10 0	61 5 3	56,603 15 1	12,015	625	12,640

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 28th September 1889.			Receipts for week ending 27th September 1890.			Total receipts from 1st April 1889 to 28th September 1889.			Total receipts from 1st April 1890 to 27th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22¼	4,838	217	22¼	3,875	174	22¼	1,39,241	241	22¼	1,40,802	243	1,561	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 20th September 1890, on 763 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	120,250	55,020 0 0	6,02,240 0	1,84,890 0 0	12,220 0 0	2,02,140 0 0	21,998	27,635	49,633
Or per mile of railway	158	72 0 0	789 0	242 0 0	*2 0 0	316 0 0	.....	.....	.....
For previous 11 weeks of half-year	1,531,180	6,01,528 0 0	58,10,650 0	14,03,813 0 0	1,49,990 0 0	*21,55,331 0 0	243,740	354,133	597,873
Total for 12 weeks ...	1,651,430	6,56,548 0 0	64,12,990 0	15,88,703 0 0	1,62,210 0 0	24,07,471 0 0	265,738	381,768	647,506
COMPARISON.									
Total for corresponding week of previous year	124,742	59,214 0 0	6,66,396 0	1,78,175 0 0	14,952 0 0	2,32,341 0 0	22,462	36,234	58,696
Per mile of railway corresponding period of previous year ...	167	79 0 0	892 0	239 0 0	†2 0 0	320 0 0	.....	.....	.....
Total to corresponding date of previous year	1,633,273	6,76,234 0 0	72,77,049 0	17,08,708 0 0	1,70,367 0 0	25,55,299 0 0	266,676	361,443	630,019

* Audited up to week ending 9th August 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 21st September 1889.			Receipts for week ending 20th September 1890.			Total receipts from 1st April 1889 to 21st September 1889.			Total receipts from 1st April 1890 to 20th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,52,341	338	763	2,52,140	330	708	46,90,741	265	758	*47,90,129	253	99,388	.....

* Audited up to week ending 9th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,910	5,760 0 0	13,940 0	630 0 0	40 0 0	6,430 0 0	3,610	2,060	5,670
Or per mile of railway	151	46 0 0	112 0	5 0 0	.....	51 0 0	.....	.....	.....
For previous 11 weeks of half-year	283,113	85,739 0 0	3,86,040 0	28,422 0 0	2,353 0 0	*1,16,514 0 0	38,690	22,084	60,774
Total for 12 weeks ...	302,023	91,499 0 0	3,99,980 0	29,052 0 0	2,393 0 0	1,22,944 0 0	42,300	24,144	66,444
COMPARISON.									
Total for corresponding week of previous year	24,737	9,174 0 0	1,09,540 0	11,066 0 0	686 0 0	20,926 0 0	3,597	2,917	6,564
Per mile of railway corresponding period of previous year ...	198	73 0 0	876 0	89 0 0	5 0 0	167 0 0	.....	.....	.....
Total to corresponding date of previous year	325,526	1,04,917 0 0	7,38,121 0	68,371 0 0	2,432 0 0	1,75,720 0 0	41,849	29,423	71,272

* Audited up to week ending 9th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 21st September 1889.			Receipts for week ending 20th September 1890.			Total receipts from 1st April 1889 to 21st September 1889.			Total receipts from 1st April 1890 to 20th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	20,926	167	125	6,430	51	125	3,55,567	114	125	*2,88,452	92	.....	67,115

* Audited up to week ending 9th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	13,730	4,320 0 0	14,030 0	1,360 0 0	170 0 0	5,850 0 0	2,414	690	3,104
Or per mile of railway	160	50 0 0	174 0	16 0 0	2 0 0	68 0 0	.....	.....	.....
For previous 11 weeks of half-year	157,280	50,079 0 0	1,34,850 0	11,857 0 0	3,556 0 0	*65,492 0 0	25,898	7,392	33,290
Total for 12 weeks ...	171,010	54,399 0 0	1,40,780 0	13,217 0 0	3,726 0 0	71,342 0 0	28,312	8,082	36,394
Comparison.									
Total for corresponding week of previous year	14,332	4,784 0 0	10,534 0	2,009 0 0	147 0 0	6,940 0 0	2,547	1,004	3,551
Per mile of railway corresponding period of previous year	167	56 0 0	227 0	23 0 0	2 0 0	81 0 0	.....	.....	.....
Total to corresponding date of previous year	176,402	53,895 0 0	1,09,349 0	14,695 0 0	2,629 0 0	71,219 0 0	29,804	10,761	40,565

* Audited up to week ending 9th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 21st September 1889.			Receipts for week ending 20th September 1890.			Total receipts from 1st April 1889 to 21st September 1889.			Total receipts from 1st April 1890 to 20th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	6,940	81	86	5,850	68	86	1,45,498	68	86	*1,53,203	71	7,705	.....

* Audited up to week ending 9th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 20th September 1890, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,480	860 0 0	3,870 0	240 0 0	10 0 0	1,110 0 0	580	170	750
Or per mile of railway ...	91	32 0 0	142 0	9 0 0	.....	41 0 0	.....	.....	.....
For previous 11 weeks of half-year	33,340	11,528 0 0	88,540 0	4,579 0 0	176 0 0	*16,283 0 0	6,098	2,993	9,091
Total for 12 weeks ...	35,820	12,388 0 0	90,410 0	4,819 0 0	186 0 0	17,393 0 0	6,678	3,163	9,841
Comparison.									
Total for corresponding week of previous year	2,865	987 0 0	11,437 0	770 0 0	20 0 0	1,777 0 0	586	449	1,035
Per mile of railway corresponding period of previous year ...	105	36 0 0	420 0	28 0 0	1 0 0	65 0 0	.....	.....	.....
Total to corresponding date of previous year	35,502	12,928 0 0	1,16,875 0	7,695 0 0	595 0 0	21,218 0 0	6,882	4,452	11,334

* Audited up to week ending 9th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 21st September 1889.			Receipts for week ending 20th September 1890.			Total receipts from 1st April 1889 to 21st September 1889.			Total receipts from 1st April 1890 to 20th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,777	65	27½	1,110	41	27½	46,797	69	27½	*43,405	64	.....	3,392

* Audited up to week ending 9th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 20th September 1890, on 691 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat. earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	MDS.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	66,182	25,900	2,58,204	29,520	6,540	61,960	11,695	11,442	23,337
Or per mile of railway	95·78	37·48	373·67	42·72	9·47	89·67	.....	.....	.....
For previous 10 weeks of half-year	784,438	3,00,459	27,40,970	3,17,640	68,927	6,87,026	127,088	120,745	248,733
Total for 11 weeks ...	(a)850,620	3,26,359	(b) 29,99,174	3,47,160	*75,467	7,48,986	139,883	132,187	272,070
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year	78,109	28,627	2,06,309	17,494	8,770	54,891	10,600	10,308	20,908
Per mile of corresponding week of previous year on 649 miles open	120·35	44·11	317·89	26·96	13·51	84·58	.....	.....	.....
Total to corresponding date of previous year	914,304	3,16,792	35,55,022	3,94,870	98,849	810,511	125,528	160,180	285,708

* Steam-boat earnings for the week, Rs. 4,800.
Ditto to date, „ 56,340.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 20TH SEPTEMBER 1890.			RECEIPTS FOR WEEK ENDING 21ST SEPTEMBER 1889			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 20TH SEPTEMBER 1890			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 21ST SEPTEMBER 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	61,960	89·67	649	54,891	84·58	669	20,72,666	125·36	649	21,26,164	131·80	.....	53,498

(a) Excludes 31,904 passengers, being traffic common to E. and N.-W. and T. Railways.
(b) Do. 1,30,594 maunds, ditto ditto ditto.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 30th August 1890	7,218
Corresponding period of 1889	17,075
Decrease	9,857
	Rs. A. P.
Receipts per mile for week ending 30th August 1890	141 8 6
Corresponding period of 1889	334 13 1
Decrease	193 4 7
Receipts from 1st July to 30th August 1890	65,578
Corresponding period of 1889	89,363
Decrease	23,785

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 6th September 1890	9,934
Corresponding period of 1889	16,067
Decrease	6,133
	Rs. A. P.
Receipts per mile for week ending 6th September 1890...	194 12 7
Corresponding period of 1889	315 0 8
Decrease	120 4 1
Receipts from 1st July to 6th September 1890	75,512
Corresponding period of 1889	1,05,430
Decrease	29,918

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The Calcutta Gazette.

WEDNESDAY, OCTOBER 15, 1890.

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RESOLUTION ON THE TRIENNIAL REPORT ON THE WORKING OF CHARITABLE DISPENSARIES UNDER THE GOVERNMENT OF BENGAL FOR THE YEARS 1887, 1888 AND 1889.

MEDICAL.

Dated Darjiling, the 6th October 1890.

READ—

The Triennial Report on the working of Charitable Dispensaries under the Government of Bengal for the years 1887, 1888 and 1889.

Read also—

The Annual Report for 1886 and the Resolution recorded thereon.

Dr. Hilson's triennial report on the working of the charitable dispensaries under the Government of Bengal is a satisfactory document, which records much progress in the popularity and usefulness of these institutions throughout the province, and reflects much credit on the Inspector-General himself, to whose administrative energy and perseverance a large proportion of this encouraging result is due.

The post of Inspector-General of Civil Hospitals was held, during the past three years, by Dr. A. J. Cowie, from January 1887 to April 1888, and again from November 1888 to April 1889, and by Dr. A. H. Hilson in the intervening months, and from May 1889 to the end of the year. Dr. Hilson has brought to bear upon his work a large experience of other provinces, which has been of great service to him in reorganizing the medical institutions of Bengal, and his present report, which is full of interest and yet not too long shows that, while much has been done to improve the facilities for the introduction of medical skill and science in the mofussil, much yet remains to be done before this province, which is in many respects one of the most unhealthy in India, can rival the more northern provinces in the management and efficiency of its charitable dispensaries.

2. The total number of dispensaries in Bengal has increased from 234 in 1886 to 261 in 1889; of this last number 125 are in class II and are under the management of local bodies, and the Inspector-General brings to notice the fact that there are several other institutions which might well be made over to the management of local Municipalities or District Boards. The Lieutenant-Governor is prepared to consider any recommendations which Dr. Hilson may wish to make in specific instances.

3. The interest taken by Municipalities and District Boards in the charitable medical institutions placed in their charge is favourably noticed by the Inspector-General, who at the same time comments on the indifference shown by many local Committees in the control of their dispensaries. His Honour is of opinion that the individuality of the medical officers attached to the various dispensaries has much to do with this, but would at the same time impress on the Chairmen and members of local bodies the importance of supervision and encouragement in the case of institutions of such practical usefulness as these, and would remind them that the remarks recorded by unofficial visitors in the inspection-books provided for the purpose are often of the greatest service to the authorities in remedying defects and detecting abuses. Sir Steuart Bayley regrets to notice that although there was an improvement in the figures of the number of inspections made by Civil Surgeons, there are still a large number of dispensaries which are only visited once instead of twice in the year.

4. The figures of attendance, both out-door and in-door, have steadily increased in the past three years, as is shown in the following table:—

Year.		Divisions.									Grand Total.
		Burdwan.	Presidency.	Rajshahye.	Orissa.	Dacca.	Chittagong.	Patna.	Bhagulpur.	Chota Nagpur.	
1887	In-door	3,578	2,581	2,422	1,933	3,791	625	6,630	1,996	963	24,474
	Out-door ...	149,217	138,288	136,703	62,680	106,327	31,059	316,513	86,214	28,404	1,055,465
1888	In-door	3,590	2,812	2,494	1,950	3,745	781	6,842	2,435	1,102	25,751
	Out-door ..	144,372	142,382	154,546	65,242	65,242	33,918	34,082	91,851	27,899	1,106,700
1889	In-door	3,920	2,970	2,858	2,770	4,135	851	7,688	2,648	1,141	2-,981
	Out-door ..	152,313	159,873	155,270	74,766	113,333	35,193	364,544	94,361	30,190	1,179,843

The proportion of persons treated, both indoors and out of doors, to population is very low, and it is only in a few exceptional areas that it touches 3 per cent., the total for the province being in 1889 1,208,824 persons treated out of a population of 69,536,861, or 1·73 per cent. But, on the other hand, it may be added that the returns from dispensaries are becoming more accurate year by year, and the steady increase in numbers, in spite of the elimination of many fictitious returns of large attendance, is clearly a matter for congratulation.

5. On the subject of in-door patients, Dr. Hilson remarks:—

"The native of India, when sick, prefers to be treated at his own house, and at such a time will not leave his family if it can possibly be avoided—a characteristic which seems to be more strongly marked in Bengal than elsewhere. The desire is only natural, and he cannot be blamed for it; but it seems to me that one cause of it is to be found in the very limited provision of separate accommodation for the families of patients at dispensaries, and this is a point well worth the attention of Municipal Committees and others interested in these institutions. In the Punjab and North-Western Provinces many of the dispensaries have a few rooms apart from the main building, which are reserved for the accommodation of well-to-do patients and those who bring relatives with them, and they are largely taken advantage of."

Sir Steuart Bayley would be glad to see the above proposal carried out, as he has no doubt that the defect pointed out by the Inspector-General is a serious one. Dr. Hilson records many valuable remarks on the subject of various dispensaries at which the mortality among in-door patients was high, and it is worthy of notice that it is at the various shrines to which pilgrims resort that the mortality is found to be highest, the fatigue and poverty of the pilgrims rendering them an easy prey to attacks of cholera and dysentery. The mortality among in-door patients was 12·71 per cent. in 1887, 12·77 per cent. in 1888, and 13·9 per cent. in 1889.

6. The increase in the number of out-door patients is very satisfactory, and speaks well for the improved management and popularity of the charitable dispensaries in the mofussil. The Lieutenant-Governor has no doubt that, as remarked by Dr. Hilson, the professional qualifications of the officer in charge

of a dispensary greatly affect its popularity, and local Municipalities and others who have the management of these institutions would do well to bear in mind his warning that an excellent building and a full stock of medicines and medical comforts will not be of much service if the officer in charge is not a skilled practitioner, who is earnest and devoted to his work.

7. Very few cases of small-pox are treated in dispensaries, although the disease continues to be prevalent in several districts. Cholera is dealt with in almost all such institutions, but they are not sufficiently large or adequately equipped to deal with anything approaching to an epidemic of this disease. The number of cases of malarial fever increased from 202,933 in 1887 to 232,582 in 1889, and in the latter year formed a percentage of 19·24 of the total number of cases treated. This disease is most prevalent in the Burdwan, Presidency and Rajshahye Divisions. The proportion of cases of malarial fever in the Presidency Division has increased from 26·68 per cent. in 1887 to 30·28 per cent. in 1889. On this subject Dr. Hilson remarks—

"Malarial fevers are not more common in Bengal than in other Indian provinces, but they have this peculiarity that they are usually of a more severe and fatal type, which is probably due to the damp, relaxing nature of the climate. They leave their traces behind in the form of anæmia, enlarged spleen, diarrhœa, and dysentery, and it has truly been said that if the prevalence of malarial fever could be abolished one-half the diseases of the country would disappear with them."

The Inspector-General shows that very few lepers resort to charitable dispensaries for relief, the average number treated in these institutions in the past three years being only 2,525. His general remarks on the nature of the disease and its contagious and non-contagious properties are of great value as showing how much remains to be done before it can be asserted with any confidence that the disease is understood, or that it can be effectively dealt with by segregation even of the strictest kind.

8. The increase in the number of surgical operations is very satisfactory, and the Lieutenant-Governor agrees with Dr. Hilson in thinking that successful operative surgery is greatly appreciated by the poorer classes, and that the performance of major operations by qualified Assistant Surgeons adds much to the popularity of mofussil dispensaries. The very large attendance at the Chupra and Monghyr dispensaries, where the Assistant Surgeons, the late Babu Aghore Nath Bose and Babu Upendro Nath Sen, especially distinguished themselves by their success in surgical work, tends to support this view, and His Honour hopes that every encouragement will be given to such medical subordinates as may show good results in the exercise of this branch of their profession. These remarks more especially apply to cases of cataract, and there can be no doubt that success in restoring failing sight has great influence on the popular mind.

9. The following statement, which shows at a glance the financial position of the charitable medical institutions of Bengal for the past three years, is reproduced *in extenso* from the Inspector-General's report:—

Income.

	1887. Rs.	A.	P.	1888. Rs.	A.	P.	1889. Rs.	A.	P.
Cash balance on 1st January ...	25,753	7	1	33,536	5	7	38,783	13	1
From Government—									
As salaries	15,445	7	1	15,018	10	8	15,978	3	10
As registers and forms	1,794	10	8	2,156	1	0	2,066	13	10
As European medicines ...	487	3	0	702	12	6	573	10	1
For diet of police cases ..	1,842	0	9	2,109	3	8	2,338	5	1
Sale of medicines ...	.....						..		
Special allowances ...	1,979	8	1	2,082	6	4	1,963	14	9
Total ...	21,548	13	7	22,069	2	2	22,920	15	7
From local or other funds ...	58,985	5	7	71,845	15	6	61,832	13	5
From municipal funds ...	1,47,681	1	6	1,53,582	14	6	1,61,843	7	1
Interest on investments ...	29,215	6	7	31,958	3	2	36,750	12	5
Sale of securities or withdrawal of deposits ...	20,191	12	11	25,524	14	9	14,462	5	8
European subscriptions ...	14,667	12	0	13,529	4	3	17,115	0	10
Native subscriptions ...	1,10,462	12	0	1,01,275	3	10	1,19,623	11	0
Total income ...	4,28,506	7	3	4,53,321	15	9	4,73,332	15	1

Expenditure.

	1887. Rs.	A.	P.	1888. Rs.	A	P.	1889. Rs.	A.	P.
On establishment ...	2,15,873	4	5	2,28,490	7	5	2,37,905	8	1
„ bazar medicines ...	9,711	10	2	10,001	13	4	10,452	7	10
„ European medicines, whether from Government store or purchased otherwise	46,895	14	4	47,787	13	6	55,368	12	11
„ diet	36,975	12	8	41,442	0	8	46,798	1	8
„ miscellaneous charges ...	27,174	3	11	29,157	6	3	34,081	6	11
„ buildings or repairs ...	36,091	14	2	38,718	14	7	38,136	1	0
Invested during the year ...	22,027	4	6	18,796	6	1	14,352	13	4
Total expenditure ...	3,94,750	0	2	4,14,394	13	10	4,37,095	3	9
Cash balance on 31st December	33,756	7	1	38,927	1	11	36,237	11	4

The variations in the figures shown as closing balance on 31st December and opening balance on 1st January are fully explained by Dr. Hilson, and are due to the correction of the accounts of various dispensaries at the close of the year. The figures are very satisfactory, and show that these medical charities are well and liberally supported and are in a flourishing financial position. The total amount of the subscriptions, both from Europeans and Natives, has largely increased, and municipal and local bodies deserve the Inspector-General's congratulations on the co-operation of the general public that these figures disclose.

The increase in expenditure is inevitable in the face of the extension of medical aid to the poorer classes, and Dr. Hilson notices with regret that in many cases a laudable desire for economy has led to restriction of the pay of the officers employed to that of the lowest grade of Assistant Surgeons—a form of economy which is open to criticism. It is, however, not improbable that in some cases not more than this scale of pay can really be afforded, and that an effort is made in order to obtain the services of an officer of qualifications superior to those of a Hospital Assistant. The whole question of the appointment of officers to the control of dispensaries has lately been again brought under the consideration of Government, and it will be separately dealt with by the Lieutenant-Governor after consulting the Municipal Department and the Commissioners of Divisions; it is therefore unnecessary to make further comment on the remarks on this subject contained in the Inspector-General's present report.

10. The notes and statistical tables which are appended to the report are full of interesting detail and form a record of much good work. Sir Steuart Bayley agrees with the Inspector-General in his commendation of certain Assistant Surgeons who have shown exceptional ability in various branches of their profession, and their names will be noted for future guidance.

ORDER.—Ordered that a copy of the Resolution, together with a copy of the Report, be submitted to the Government of India, Home Department, for information.

Ordered also that a copy of the Resolution be forwarded to the Inspector-General of Civil Hospitals, to the Municipal Department of this Government, and to all Commissioners of Divisions for information, and that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

RESOLUTION ON THE REPORT OF THE ADMINISTRATION OF THE STAMP DEPARTMENT DURING THE THREE YEARS ENDING 31ST MARCH 1890.

FINANCIAL DEPARTMENT—STAMPS.

Darjeeling, the 7th October 1890.

RESOLUTION.

READ—

The Report of the Board of Revenue on the Administration of the Stamp Department during the three years ending 31st March 1890.

The present report is the first which has been submitted under the triennial system introduced by the orders of the Government of India, No. 4417 of 23rd August 1887, statistical information only with brief explanatory notes having been supplied in the two previous years. The Acts under which the stamp revenue was collected during the period under review were the Indian Stamp Act 1 of 1879 and the Court-fees Act VII of 1870 as modified by subsequent enactments. Under the orders of the Government of India, the copying fee has been reduced from four to three annas per folio from 1st April 1890. From 1st April 1888 the rate of discount on the sale of court-fee stamps of all values above one rupee has been reduced from 3 pies to 1½ pie per rupee. The other changes in the law and rules issued by Government are not of sufficient importance to call for special notice.

Stamp revenue.

2. The financial results of the administration of the Stamp Department during the past four years, according to the returns furnished by the Accountant-General, are shown in the following table:—

Year.	Stamps under Act I of 1879.			Court Fees under Act VII of 1870.			Total.		
	Receipts.	Refunds and other charges.	Net revenue.	Receipts.	Refunds and other charges.	Net revenue.	Receipts.	Charges.	Net revenue.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1886-87	34,72,802	1,89,293	32,83,509	99,80,759	4,21,010	95,68,749	1,34,62,561	6,10,303	1,28,52,258
1887-88	35,51,253	2,55,242	32,96,011	1,02,64,782	3,60,835	99,03,947	1,38,16,035	6,16,077	1,31,99,958
1888-89	37,50,871	2,76,042	34,74,829	1,00,88,114	3,39,661	97,48,453	1,38,38,985	6,15,703	1,32,23,282
1889-90	38,88,945	2,88,689	36,00,256	1,03,48,824	3,39,535	1,00,09,289	1,42,37,769	6,28,244	1,36,09,525
Average of 1887-88 to 1889-89	37,30,356	2,73,324	34,57,032	1,02,33,907	3,46,684	98,87,223	1,39,64,263	6,20,008	1,33,44,255

The gross average annual revenue collected under both the Acts during the three years under review was Rs. 1,39,64,263 against Rs. 1,34,62,561 in 1886-87. Both judicial and non-judicial stamps contributed to the increase; the total realizations during 1889-90 exceeded those of any previous year. The average receipts were highest in Calcutta (Rs. 19,51,882) and lowest in Singbhoom (Rs. 10,833). The incidence is highest throughout East and Central Bengal, where trade is brisk and the population most prosperous. The general incidence of stamp revenue on the population of Bengal, estimated at 66 millions, is 3 annas 4¼ pies per head.

Stamp sales.

3. Another table which has been compiled in the office of the Superintendent of Stamps shows the receipts from sales of the different descriptions of stamps during the same period. The figures will differ from those given in the previous statement, inasmuch as they do not include miscellaneous receipts or receipts from the sale of plain paper prescribed by the High Court for use with court-fee stamps. They show stamp sales only, but apart from these differences there

is a small discrepancy with the Accountant-General's figures which is under adjustment:—

Year.	Sales of Non-Judicial Stamps used under the Indian Stamp Act.										Sales of Judicial Stamps or Stamps used under the Court-fees Act.			Total of both kinds of stamps.
	Impressed sheets, including certificate stamps, salt bond, P. W. D. forms, bills-of-lading and kabuliyat form stamps.	Impressed labels.	Receipt or one-anna revenue stamps.	Share transfer stamps.	Foreign bill stamps.	Hundi or bills-of-exchange stamps.	Notarial stamps.	Advocate, vakeel, and attorney stamps.	Impressed one-anna stamps for cheques, bills, &c.	Total of non-judicial stamps.	Adhesive and impressed court-fee stamps.	Stamps for copies.	Total of court-fee stamps.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1886-87	23,71,386	5,85,402	2,32,638	17,771	39,065	86,643	4,573	10,000	44,616	33,92,184	93,06,760	5,06,868	98,13,128	1,32,05,312
1887-88	24,12,972	5,76,248	2,22,353	32,634	50,081	96,210	3,920	7,250	49,283	34,51,251	95,30,446	5,48,859	1,00,79,305	1,35,30,556
1888-89	25,71,283	6,32,403	2,28,704	44,840	51,318	1,11,754	3,014	12,750	48,207	37,04,403	93,23,219	5,71,916	98,95,134	1,35,99,537
1889-90	26,89,643	6,41,927	2,40,757	26,068	42,731	1,18,673	3,114	15,750	47,260	38,26,523	95,71,539	5,79,875	1,01,51,414	1,39,77,937
Average of three years, 1887-88 to 1889-90.	25,57,939	6,16,879	2,30,634	34,714	46,343	1,08,879	3,149	11,916	48,250	36,60,725	94,75,068	5,66,883	1,00,41,951	1,37,02,676

Non-judicial stamps.

There has been a steady increase in non-judicial samp stales, which was shared by almost all classes of stamps. The average yearly receipts of impressed sheets, which are the most important of non-judicial stamps, show an increase of Rs. 1,86,573, or 7·8 per cent., as compared with the receipts in 1886-87. The increase was contributed by 39 districts, notably Mymensingh, and is ascribed to the normal growth of business and a growing tendency to substitute written agreements for verbal contracts. Impressed labels, which are available only in Calcutta, show an increase of Rs. 31,387, or 5·3 per cent. The sale of one-anna revenue stamps, commonly known as receipt stamps, shows a falling off of Rs. 2,003, or 8 per cent., as compared with 1886-87, but an increase of Rs. 11,963 in 1889-90 as compared with the preceding year. The other classes of non-judicial stamps, which are of minor importance, show increases of Rs. 16,943 under share transfer stamps, Rs. 9,278 under foreign bill stamps, and Rs. 22,236 under hundi or bills-of-exchange stamps, and a decrease of Rs. 1,424 under notarial stamps.

Judicial stamps.

4. The average income of the past three years from the sales of judicial stamps is Rs. 91,67,320 under court-fee stamps, Rs. 2,333 under High Court service stamps, Rs. 3,05,415 under Calcutta Small Cause Court stamps, and Rs. 5,66,883 under stamps for copies, making a total of Rs. 1,00,41,951, an increase of Rs. 2,28,823, or 2·3 per cent., over the income from the same sources in 1886-87. The largest increases were in Midnapore (Rs. 52,511), Tipperah (Rs. 46,256) Monghyr (Rs. 40,500), Rungpore (Rs. 29,054), Calcutta (Rs. 23,996) Mozufferpore (Rs. 23,037), Mymensingh (Rs. 20,608), Khoolna (Rs. 15,693); and the largest decreases were in Pubna (Rs. 33,635), 24-Pergunnahs (Rs. 28,990), Nuddea (Rs. 12,753), Bhagulpore (Rs. 11,592), and Gya (Rs. 10,069). Taking each denomination of court-fee stamps sold during the period under review, there was an increase of nearly 3 lakhs in the sale of one-anna stamps, 2½ lakhs in that of ½-anna stamps, 2¼ lakhs in that of 12-annas stamps, and 2½ lakhs in that of 1-rupee stamps, and a decrease of a lakh under 6-annas, Rs. 49,579 under 2-rupees, and Rs. 16,123 under 4-rupees stamps. The decrease in the sales of stamps of higher values, accompanied by an increase in the sales of stamps of lower values, is probably due to the fact that stamps of lower values on which the higher rate of discount is still allowed are used in combination for stamps of higher values on which the discount has been reduced.

5. The revenue from the sale of stamps of all classes has increased from Rs. 87,88,026 in 1874-75 to Rs. 1,27,76,907 in 1884-85 and to Rs. 1,39,77,937 in 1889-90.

Levy of penalties.

6. The number of cases in which deficient stamp duty and penalty were levied by Civil and Revenue Courts during the last four years, and the amount realized in these cases, are exhibited in the following table :—

Year.	Number of cases.		Amount of duty and penalty realized.		Total.	
	Civil Courts.	Revenue officers.	By Civil Courts.	By Revenue officers.	Cases.	Amount.
			Rs.	Rs.		Rs.
1886-87	1,371	2,173	12,337	21,643	3,544	33,980
1887-88	1,400	2,122	10,555	23,010	3,522	33,565
1888-89	1,277	2,076	11,107	22,022	3,353	33,129
1889-90	1,338	2,399	11,127	24,869	3,737	35,996
Average of three years, 1887-88 to 1889-90 ...	1,334	2,198	10,952	23,208	3,532	34,250
Average increase in the triennium compared with 1886-87	.....	25	.....	1,655	..	250
Average decrease in the triennium compared with 1886-87	37	.....	1,385	.....	7	.....

Prosecutions.

7. The average number of prosecutions instituted for various breaches of the stamp law was 816. The average number of persons brought to trial was 929, of convictions 740, and of acquittals 116. The average amount of fines imposed by Magistrates was Rs. 6,626, while Rs. 1,756 were disbursed as rewards to informers. The Board bring to notice the fact that not a single rupee was paid as reward in the Patna, Orissa, and Chota Nagpore Divisions, in three out of the four districts of the Bhagulpore Division, in five out of the seven districts of the Rajshahye Division, in four out of the six districts of the Presidency Division, and in three out of the five districts of the Burdwan Division. This would seem to show that this important subject has not met with due attention on the part of local officers, for it is on the encouragement afforded by a liberal distribution of rewards that detection of infringements of the stamp law must largely depend.

8. The Board dwell at some length in their report on the evasion of duty in respect of probates, letters and certificates of administration, and remark on the absolute necessity of providing some agency for checking the valuation of estates of deceased persons by executors, and also for adjudicating on the valuations when objected to. This question has already formed the subject of a special correspondence between the Board, the High Court, and the Government, and the Lieutenant-Governor would prefer to deal with it separately from the triennial report.

9. The Lieutenant-Governor's acknowledgments are due to the Board for their careful administration of the Stamp Department. The names of the officers who have been mentioned as specially deserving of credit will be noted in the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 11th October, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
BURDWAN DIVS. 1	Burdwan Oct. 11, '90	0·13	Weather—hot. Prospects of *amun* and sugarcane good. Prices of common rice :— Srs. Burdwan ... ... 16½ Culna ... ... 15 Cutwa ... ... 16½ Ranigunge ... ... 16 } per rupee.
	Culna ...	1·60	
	Cutwa ...	1·17	
	Ranigunge ...	0·01	
2	Bankoora ,, 11, '90	Nil	Weather—warm and cloudy. A smart shower on the 11th. Harvesting of *aus* paddy proceeding. Prospects of *amun* paddy continue good. Common rice selling at 19 seers per rupee at the Sudder station and 17½ seers at Bissenpore.
3	Birbhum ,, 11, '90	Nil	Storms seem to be gathering, and some good showers may be expected. Prospects of crops as good as can be all over the district. Price of rice 17 to 18½ seers per rupee.
	Rampore Haut ...	0·75	
4	Midnapur ,, 11, '90	0·22	Weather—sultry with occasional slight showers. Prospects of crops in irrigated areas excellent, elsewhere fairly good. Some complaints of too much rain in the Contai subdivision. Indigo being sown. Prices of common rice :— Srs. Sudder ... ... 15 Contai ... ... 19 Tumlook ... ... 15 Ghatal ... ... 16 } per rupee.
5	Hooghly ,, 11, '90	Nil	Weather—clear. Temperature increasing. Prospects excellent. Outturn of jute and *aus* estimated at 12 annas. Prices of common rice :— Srs. Sudder ... ... 13 Serampore ... ... 13 Jehanabad ... ... 16 } per rupee.
	Serampore ...	0·89	
	Jehanabad ...	0·55	
	Howrah ,, 11, '90	0·03	Weather—generally fine. Prospects of crops satisfactory. *Amun* crop doing well. Price of common rice 14 seers per rupee.
	Uluberiah ...	0·18	
	Central Districts.		
PRESIDENCY DIVS. 6	24-Perghs. Oct. 14, '90	1·72	Weather—rainy, overcast and unsettled at the end of the week. Prospects of *amun* paddy continue excellent except in the small flooded area of the Bussirhat subdivision. Lands being prepared for *rubbi* crops. Prices stationary.
7	Nuddea ,, 11, '90	0·27	Weather—seasonable. *Amun* rice doing well. Sowing of winter crops going on. No change in the price of rice.
	Kushtea ...	Nil	
	Meherpore ...	1·25	
	Chuadanga ...	0·41	
	Ranaghat ...	0·54	
8	Khoolna ,, 11, '90	0·84	Weather—bright and warm. Transplantation of *amun* nearly completed. Prospects good except in the flooded thanas.
	Bagirhat ...	Nil	
	Satkhira ...	0·63	
9	Jessore ,, 11, '90	0·69	Weather—warm and fine. Prospects very good in Magurah and Narail. Sowings of cold-weather crops in progress. Price of rice steady.
	Jhenidah ...	0·15	
	Magura ...	Nil	
	Narail ...	0·76	
	Bongong ...	0·60	
10	Moorshedabad ,, 11, '90	Nil	Weather—bright and clear. Prospects of *amun* favourable. *Kalai* is still being sown. It is being resown on lands submerged by the recent rise of the rivers. Water gradually going down. Agricultural loans and gratuitous relief are still being given.
RAJSHAHYE DIVS. 11	Dinagepur ,, 11, '90	0·40	Weather—seasonable. Prospects continue favourable. Outturn of *haimanti* rice may at present be estimated at almost 20 annas. Price of rice unchanged.
	Thakurgaon ...	0·11	
12	Rajshahye ,, 11, '90	2·08	Weather—dry; clouds passing; rainy to-day (11th). *Aus* paddy gathered. Jute steeping and cleaning continue. Other crops thriving and flood receding. Prospect of *haimanti* paddy good. A tornado passed over villages Jonail and Dighsoil in subdivision Nattore south to north, rising from Bulsatoil towards Beelchalan. About 22,000 bighas paddy and some 400 houses destroyed.
	Nattore ...	0·08	
	Nowgong ...	0·39	
13	Rungpur ,, 11, '90	Nil	Weather—cool and pleasant in the morning, but sultry later on. Rain is evidently impending. The mischief done by the storm of the 26th—28th extends over 200 villages which have lost the greater part of their crops. A tornado with a course of 2 miles in length by 120 feet in diameter has swept everything away on its track. Generally, however, prospects are excellent all round.
	Nilphamari ...	1·23	
	Kurigram ...	2·90	
	Gaibanda ...	1·45	
14	Bogra ,, 11, '90	Nil	Weather—fine, with northerly breeze. Hot sun. The recent flood in the north and west of the district has destroyed or damaged a considerable area of transplanted rice: in those parts the outturn on the whole may perhaps be 10 annas, but the inquiries are not yet complete. Some jute has also been destroyed, but the outturn has been on the whole very large. The broadcast *amun* has been rather benefited, and elsewhere the *amun* rice of both kinds is mostly in excellent condition. Sugarcane promises generally well. Ploughing is going on, and mustard and *kalai* are being sown. Common rice is selling at 18 seers per rupee.
	Sherpur ...	0·03	
	Nowkhilla ...	Nil	
15	Pubna ,, 11, '90	Nil	Weather—rather hot. *Rubbi* sowings have commenced. Prospects of winter crops continue as before. Prices of food-grains have risen higher.
16	Darjeeling ,, 11, '90	0·07	Weather—fair. Prospects good. *Haimanti* paddy doing well in Terai. Lands being prepared for *rubbi* crops.
	Silliguri ...	1·73	
17	Jalpigoree ,, 11, '90	3·13	Weather—hot and cloudy. Prospects of all crops generally good. Harvesting of jute continues. Price of rice unchanged.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—*concluded.*			
	Eastern Districts.		
Dacca Divn.			
18	Dacca Oct. 11, '90	1·12	Weather—hot and fine. Harvesting of jute nearly completed. *Amun* doing well. *Asvini* paddy being harvested. Fodder is available. Common rice sold at from 14 to 15 seers per rupee.
19	Furreedpur „ 11, '90	Nil	Weather—seasonable. State of *amun* crop fair. Common rice selling at 12 seers per rupee at the head-quarters station, and 13 and 14 seers per rupee at Goalundo and Madaripore respectively.
20	Backergunge „ 11, '90	0·74	Weather—seasonable. State and prospects of standing crops good. Common rice selling at about 13¼ seers per rupee.
21	Mymensingh „ 11, '90	0·59	Days hot and sultry with occasional clouds. Mornings cool. Harvesting of jute continues. Prospects of *amun* paddy favourable. Coarse rice sells at 12¾ seers per rupee.
Chittagong Divn.			
22	Chittagong „ 11, '90	1·02	Weather—seasonable. *Aus* has been reaped, and the outturn is up to the average. Prospects of *amun* good. Prices steady.
23	Noakholly „ 11, '90	0·39	Weather—variable: very warm and sultry. State of *amun* plants good. Price of rice stationary.
24	Tipperah „ 11, '90	0·10	Weather—hot; calm. Jute cutting almost completed. Standing crops promise well. *Amun* expected to yield 16 annas. Prices stationary.
25	Chittagong Hill Tracts. „ 9, '90	0·51	Weather—very hot and close throughout the week, but a fall of rain on the 8th has lowered the temperature. Harvesting of *jum* paddy continues. Late rice in low lands progressing. Lands being ploughed for mustard. Common rice being sold at 12¾ seers per rupee.
	Hill Tipperah ...	...	Report not received.
BEHAR.			
Patna Divn.			
26	Patna „ 11, '90	Nil	Weather—hot. Paddy and other crops on the ground are doing well. *Rubbi* and poppy fields are being ploughed. In some places sowing of *rubbi* crops has been commenced. Prices of food-grains almost stationary.
	Barh ...	Nil	
	Behar ...	Nil	
	Dinapore ...	0·27	
27	Gya „ 11, '90	Nil	Weather—seasonable. Prospects of paddy favourable. Sowings of *rubbi* commenced. Sugarcane doing well. Prices of food-grains falling.
28	Shahabad „ 11, '90	Nil	Weather—fine and sunny. Signs of cold weather. Prospects of crops good. Prices stationary in subdivisions; slight rise reported in Arrah.
	Buxar ...	Nil	
	Bhabuah ...	Nil	
	Sasseram ...	Nil	
29	Durbhunga „ 11, '90	Nil	Weather—mornings and nights getting cool, but days still hot. The late *kathia* rain has done much good to the crops, but some rain is still wanted for the rice crop on high lands. *Rubbi* sowings commenced. Transplanting of tobacco in progress. Prices almost stationary.
30	Muzufferpur „ 11, '90	Nil	Weather—dry and still warm. Prospects of rice crop excellent, especially in the Sitamarhi subdivision. Sowing of *rubbi* crops proceeding. Prices stationary.
	Hajipur ...	Nil	
	Sitamarhi ...	Nil	
31	Sarun „ 11, '90	0·05	Weather—seasonable and fine. Prospects of crops excellent. Preparation of land for *rubbi* going on. Mustard already sown in places.
32	Chumparun „ 11, '90	Nil	Weather—seasonable. A little cloudy since last night (10th). Rains apparently over. Prospects of paddy very good. Ploughing of fields for *rubbi* sowings commenced.
Bhagulpore Divn.			
33	Monghyr „ 11, '90	Nil	Weather—days hot and nights comparatively cool. Prospects of winter rice continue favourable. *Rubbi* sowings in progress and prospects good.
	Begusarai ...	Nil	
	Jamui ...	0·12	
34	Bhagulpore „ 11, '90	Nil	Weather—hot sun. Mornings and evenings fresh and cool. Prospects of rice crop excellent. Lands being prepared for *rubbi* crops.
	Banka ..	Nil	
	Mudhepura ...	0·82	
	Soopool ...	0·15	
35	Purneah „ 11, '90	0·35	Weather—fine with fresh mornings. Prospects everywhere favourable. *Rubbi* crops being sown. *Kurthi* germinating. Prices stationary.
	Kishengunge ...	0·26	
	Arrareah ...	0·41	
36	Maldah „ 11, '90	0·14	Weather—first part of the week hot and bright, latter part unsettled. Sowing of *kalai* pulse is progressing. Prospects of winter rice continue favourable. and land is being prepared for *rubbi* crops. Common rice selling at from 13 to 18 seers per rupee.
	Chanchal ...	Nil	
	Shibgunge ...	Nil	
	Gajole ...	0·10	
37	Sonthal Perghs. „ 11, '90	0·79	Weather—very hot. Cloudy with occasional storms. Prospects of paddy crop excellent. *Rubbi* sowings have begun.
	Deoghur ...	Nil	
	Godda ...	0·95	
	Jamtara ...	0·44	
	Pakour ...	0·22	
	Rajmehal ...	0·11	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Oct. 11, '90	Nil	Weather—dry and hot. Sowing of *rubbi* continues. General prospects of crops good.
	39	Poorce „ 9, '90	0·75	Weather—seasonable. *Sarad* crop is being weeded. *Mandia* is being harvested. Miscellaneous crops doing well. Price of common rice 18 seers 6 chittacks to 26 seers 4 chittacks per rupee.
		Khoorda ...	1·54	
		Banpur ...	Nil	
	40	Balasore „ 11, '90	0·08	Weather—cooler. Condition of the rice crop is generally fair except in the north-east of the district. More rain is now wanted.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Oct. 11, '90	1·10	Weather—seasonable. Prospects of winter rice continue excellent. Sugarcane doing well. *Rubbi* crops being sown.
	42	Lohardugga „ 11, '90	0·11	Weather—seasonable. Harvesting of *gora* rice continues. Prospect of winter rice favourable. Ploughing of *rubbi* lands is being carried on.
		Palamow (up to 6th Oct.)	Nil	
	43	Singbhoom Oct. 11, '90	0·28	Weather—seasonable. Prospects satisfactory. Outturn of high-land paddy will be 8 to 12 annas, and low-land paddy is expected to yield 12 to 16 annas. Other crops are also doing well. Prices stationary.
	44	Manbhoom „ 11, '90	Nil	Weather—hot during the day, cool in the night. Excepting Jhalda, where heavy rain is reported, there was little or no rain during the week. Prospects of crops good. Coarse rice selling at from 16 to 24 seers per rupee.
		Govindpore ...	Nil	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 14th October, 1890.

C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

Names of Marts.	Stock in hand as compiled on—												
	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.	1st week of August 1890.	1st week of Sept. 1890.	1st week of Oct. 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Baliaghatta	5,06,000	4,54,000	2,96,500	3,00,000	5,48,000	9,31,100	15,22,500	10,94,000	9,85,500	7,54,000	6,42,000	5,41,000	4,10,000
Coltadanga	71,900	67,400	55,400	63,400	83,900	1,02,500	1,12,500	86,600	84,700	74,900	67,800	73,300	65,800
Chitpore, Golabaree, Coomertooly, Hatkhola, and Culpy Ghat.	6,74,100	6,33,300	5,86,000	6,00,400	5,98,900	5,33,800	5,91,600	5,37,800	4,79,200	4,96,100	5,10,500	6,07,500	6,41,100
Pathuriaghatta, Posta, and Jorabagan.	5,000	8,000	3,000	4,000	5,000	4,000	3,000	4,000	3,500	4,000	3,000	4,000	5,000
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	64,550	65,200	68,100	82,750	98,100	1,21,500	1,26,550	1,32,900	1,19,450	1,04,700	96,000	94,200	1,09,200
21 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Shuddreesur, and Chandernagore.	14,382	13,410	14,060	28,425	19,606	33,469	31,225	19,369	22,762	45,879	55,887	45,481	47,075
Total ...	18,25,932	17,31,310	15,13,060	15,68,975	19,43,506	22,66,369	28,77,375	23,64,669	21,55,112	19,69,579	19,65,187	19,55,481	17,67,175
On Railway premises on both sides of the river.	8,206 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd Dec. 1889.)	28,007 (on 3rd Jan. 1890.)	26,935 (on 3rd Feb. 1890.)	47,988 (on 3rd Mar. 1890.)	24,996 (on 3rd Apl. 1890.)	24,633 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,533 (on 3rd July 1890.)	2,371 (on 3rd August 1890.)	13,884 (on 3rd Sept. 1890.)	11,155 (on 3rd October 1890.)
On boats unloaded ... By Port Commissioners' returns.	17,852 (5th to 7th Oct. 1889.)	21,324 (1st to 3rd Nov. 1889.)	20,650 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb. 1890.)	56,599 (1st to 3rd Mar. 1890.)	37,745 (1st to 3rd Apl. 1890.)	30,197 (1st to 3rd May 1890.)	24,756 (1st to 3rd June 1890.)	23,351 (1st to 3rd July 1890.)	54,778 (1st to 3rd August 1890.)	27,167 (1st to 3rd Sept. 1890.)	32,365 (1st to 3rd October 1890.)
By Canal returns.	45,922 (5th to 7th Oct. 1889.)	14,718 (1st to 3rd Nov. 1889.)	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	58,619 (1st to 3rd Apl. 1890.)	23,975 (1st to 3rd May 1890.)	23,957 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)	18,546 (1st to 3rd August 1890.)	32,466 (1st to 3rd Sept. 1890.)	23,494 (1st to 3rd October 1890.)
Grand total of Stocks ..	18,97,914	17,81,363	15,49,242	17,90,488	21,81,281	25,05,503	29,98,735	24,43,474	22,45,752	20,30,831	19,40,882	19,28,998	18,34,189
Probable stock available for exportation by sea.	8½ lakhs	7½ lakhs	5 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs	14 lakhs	12 lakhs	9½ lakhs	9 lakhs	8½ lakhs	7½ lakhs

Statistical Department,
The 7th October, 1890.

C. E. Buckland,
Offg. Secy. to the Govt. of Bengal.

The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of April, 1890.

IMPORTS INTO CALCUTTA.

Whence imported.	FOOD-GRAINS.							FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	RICE AND PADDY.			Wheat.	Gram and pulses.	Other food-grains.	Total.	Jute, raw.	Gunny-bags.†	Linseed.	Mustard seed.				Drained.	Undrained.	Unmanufac-tured.	Manufac-tured.
	Rice.	Paddy.*	Total (in rice).															
BENGAL.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Burdwan	1,79,199	2,979	1,81,061	2,134	3,329	38	1,86,562	1,637	8,600	3,353	425	.....	.....	25	.....	420	7	1
Beerbhoom	89,957	.....	89,957	3,624	2,376	.....	95,957	.....	4,095	10,135	138	.....	.....	328	.....	.....	...	.....
Midnapore	1,92,882	22,547	2,06,974	.....	1,501	200	2,08,675	.....	2,600	18,593	6,556	.....	5	336	22	356	164	.....
Hooghly	33,320	14,490	42,376	5,166	6,936	123	54,601	25,873	262,373	6,489	1,927	.....	399	.....	1,398	21,125	8,383	123
24-Perguunahs ...	1,37,828	8,400	1,43,082	54	5,982	.....	1,49,118	29,799	546,299	8,052	200	.....	1,471	.....	10,383	7,651	3,761	283
Nuddea	1,86,171	.....	1,86,171	83,155	88,957	4,973	1,86,171	8,595	1,685	64,388	10,114	.....	75	259	116	10,603	3,192	.....
Khulna	10,080	.....	10,080	54	5,982	.....	1,49,118	1,097	.....	1,147	2,863	.....	.....	.....	200	5,000	...	.....
Jessore	3,045	1,851	4,202	.....	100	.....	4,302	7,801	1,540	13,260	7,680	.....	142	.....	322	15,995	2,462	.....
Moorshedabad ...	8,282	2,275	9,704	161	3,157	.....	13,022	148	.....	8,149	203	.....	.....	536	.....	.....	...	.....
Dinagepore	3,280	.....	3,280	2,277	5,990	368	11,925	251	111,510	4,450	1,979	.....	.....	.....	.....	.....	...	.....
Rajshahye	28,461	.....	28,461	.....	.. ..	.....	28,461	2,599	315	... ..	1,409	.....	.. ..	169	.....	.....	...	.....
Rungpore	3,299	.....	3,299	.....	2,556	.....	5,855	43,056	72,275	.....	4,208	.....	929	9	.....	.....	15,039	.....
Bogra	.....	.....	.....	.....	.....	... ..	.....	659	500	1,938	.....	.....	.....	.....	.....	.....	...	.....
Pubna	27,655	.....	27,655	.....	.....	.....	27,655	1,35,434	533,400	203	12,279	.....	.....	.....	.....	.....	114	.....
Darjeeling	.....	.....	.....	.....	9,043	.....	9,043	336	55,090	.....	.....	1,599	.....	.....	.....	.....	268	.....
Julpigoree	8	.....	8	.....	.....	.....	8	14,414	109,995	.....	1,279	298	.....	.....	.....	.....	1,253	.....
Dacca	.....	.....	.....	.....	.....	.....	.....	1,31,079	735	1,302	16,320	.....	5,183	.....	.....	.....	...	.....
Furreedpore ...	.....	.....	.....	.....	.....	.....	.....	34,264	1,575	13,789	41,059	.....	1,048	.....	.....	.....	...	.....
Backergunge ...	1,750	450	2,031	5,857	2,529	.....	10,417	2,599	.....	716	1,550	.....	.....	.....	150	128	...	.....
Mymensingh ...	1,47,499	500	1,47,811	.....	600	.....	1,48,411	22,218	.....	... ..	.....	.....	.....	.....	.....	.....	...	.....
Tipperah ...	.....	.... .	.....	.....	5	.....	5	200	.....	850	150	.....	.....	.....	.....	.....	...	.....
Chittagong ...	1,350	.....	1,350	.....	.....	.....	1,350	1,422	.....	.....	.....	.....	5,465	... ..	.....	.....	...	.....
Noakholly ...	20	.....	20	.....	.....	.....	20	700	.....	400	350	.....	700	.....	.....	.....	...	.....
	9,261	200	9,386	.....	.....	.....	9,386											
Total of Bengal ...	8,77,182	53,693	9,10,743	1,01,423	1,33,571	5,702	11,51,444	4,64,682	1,772,646	1,57,324	1,10,639	1,820	15,417	1,662	12,591	61,278	34,643	492
BEHAR.																		
Patna	54	.....	54	2,056	70,459	1,785	74,354	254	4,375	1,29,280	28,595	.....	2	.....	481	1,181	57	554
Gya	.....	.....	.....	2,469	623	.....	3,092	.....	140	31,080	2,435	.....	11	.....	.....	... ..	...	71
Shahabad ...	16	.....	16	1,498	2,978	.....	4,492	.....	.....	42,096	4,270	.....	.....	.....	127	4,012	...	.....
Mozufferpore ...	30	.....	30	.....	.....	1,503	1,533	.....	....	4,073	8,387	.....	.....	.....	.....	.....	...	.....
Durbhunga ...	26	.....	26	2,156	309	.....	2,491	.....	105	53,780	33,447	.....	.....	.....	323	946	264	4
Sarun	.....	.....	.....	919	300	.....	1,219	.....	140	6,390	2,954	.....	.....	.....	.....	315	19	.....
Chumparun ...	.....	.....	.....	1,367	.....	.....	1,367	.....	.....	3,585	32,394	.....	.....	.....	.....	.....	...	.....
Monghyr	2	.....	2	37,878	40,164	.....	78,044	.....	140	18,802	2,853	.....	9	.....	.....	41	...	1
Bhagulpore ...	359	.....	359	20,714	26,593	11,181	58,847	.....	105	56,670	18,708	.....	.....	.....	2	7	...	.....
Purneah	6,351	.....	6,351	.....	606	.....	7,017	1,257	500	583	7,513	.....	8	.....	.....	.....	2,074	.....
Maldah	972	.....	972	1,417	1,441	4	3,834	.....	.....	977	1,389	.....	.....	.....	.....	.....	...	.....
Southal Perguu-nahs.	647	.....	647	83,981	22,642	1,255	1,07,525	.....	315	41,495	10,406	.....	17	68	125	.....	...	
Total of Behar ...	8,457	.....	8,457	1,53,555	1,66,175	15,728	3,43,915	1,511	5,820	3,88,317	1,59,351	.....	47	69	1,058	7,402	2,414	630
ORISSA.																		
Cuttack	101	.....	101	.....	.....	.....	101	.....	.....	.....	.....	.....	.....	.....	.....	.....	...	.....
Balasore	1,16,802	16,478	1,27,101	.....	124	.....	1,27,225	445	5,700	102	.....	.....	.....	.....	.....	.....	152	.....
Total of Orissa ...	1,16 903	16,478	1,27,202	.....	124	.....	1,27,326	445	5,700	102	.....	.....	.....	.....	.....	.....	152	.....
CHOTA NAGPORE.																		
Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	.....	945	289	643	3	.....	23	.....	.....	...	.....
Manbhoom ...	7,852	.....	7,852	.....	... ..	.....	7,852	.....	70	296	4,640	16	.....	.....	.....	.....	...	.....
Singbhoom ...	... ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	535	.....	.....	.....	.....	.....	...	... ..
Total of Chota Nag-pore.	7,852	.....	7,852	.....	.....	.....	7,852	.....	1,015	585	5,818	19	.....	23	.....	.....	...	.....
Grand Total of supplies from the Provinces under the Lieutenant-Governor of Bengal.	10,10,894	70,176	10,54,254	2,54,983	2,99,870	21,430	16,30,537	4,66,638	1,783,181	5,46,828	2,75,808	1,839	15,464	1,753	13,649	68,680	37,209	1,122
OTHER PROVINCES.																		
Assam	64	.....	64	.....	.....	.....	64	2,633	.....	4,203	52,559	1,846	3,879	160	.....	.....	...	.....
North-Western Provinces and Oudh.	28	.....	28	1,69,526	23,160	309	1,93,023	.....	105	1,24,427	30,742	66	49,207	2	64	1,818	...	37
Punjab	10	.....	10	492	912	305	1,719	.....	.....	.....	.....	48	10,336	.....	.....	.....	...	.....
Central Provinces	.....	.....	.....	7,336	.....	.....	7,336	.....	.....	9,713	.....	.....	.....	10	.....	.....	...	.....
Rajputana and Central India.	.....	.....	.....	.....	.....	5	5	.....	.....	21,101	.....	.....	25,105	.....	.....	.....	...	1
Bombay	37	.....	37	.....	.....	.....	37	.....	.....	.....	.....	.....	14,663	.....	.....	.....	...	9
Madras	.....	.....	.....	.....	223	.....	223	.....	.....	.....	.....	.....	1,484	.....	2,731	.....	106	95
Burmah	2,733	.....	2,733	.....	2,868	512	6,113	.....	.....	.....	.....	.....	8,210	.....	.....	.....	...	18
Other places ...	90	.....	90	.....	16	.....	106	184	53,800	.....	.....	.....	.....	2	85,904	.....	33	386
Grand Total of Imports in April. 1890	10,13,356	70,176	10,57,216	4,32,537	3,27,049	22,561	18,39,163	4,69,455	1,839,086	7,06,273	3,59,109	3,709	1,28,348	1,927	1,00,338	70,498	37,847	1,638
1889	8,32,495	1,11,438	9,02,143	4,34,452	3,71,063	42,189	17,49,846	2,91,527	1,543,232	6,88,067	2,55,079	4,021	61,327	1,989	17,691	1,28,553	61,730	3,930

* One maund of paddy is equivalent to 25 seers of rice. † Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of April, 1890, *was as follows:—*

EXPORTED FROM CALCUTTA—																		
To Indian ports, viz.—																		
Bombay	3,01,854	29	3,01,873	.....	50	143	3,02,065	19	4,980,200	.....	41,346	439	.....	.....	1,263	.....	...	1
Madras	361	.....	361	.....	6,639	299	6,699	.....	27,000	.....	.....	58	.....	194	189	.....	...	81
Other ports in Madras ...	2,84,043	539	2,84,582	15	2,377	301	2,87,275	.....	155,022	.....	1,614	.....	.....	3	43	.....	...	.....
Burmah	7,053	26	7,079	5,723	11,930	257	24,989	893	1,125,700	.....	.....	.....	51	2	574	933	2,875	16
Other Indian ports	2,036	.....	2,036	129	2,934	.....	5,093	.....	307,950	.....	.....	1	.....	.....	1,944	1,524	3,264	...
Pondicherry ...	.....	.....	.....	199	... ..	.....	199	.....	207,200	.....	.....	.....	.....	.....	.....	.....	...	...
Sind	.....	.....	.....	.....	.....	.....	.....	.....	10,000	.....	.....	.....	.....	.....	.....	.....	...	...
Total of Inter-portal trade	5,95,349	594	5,95,730	6,060	23,530	1,010	6,26,320	912	5,913,072	.....	42,960	498	31	259	3,962	1,707	7,139	616
To Foreign ports—																		
United Kingdom	1,91,657	.....	1,91,657	1,87,962	5,710	.....	3,85,329	4,80,721	1,634,760	5,13,050	46,346	3,570	17,963	446	.....	.....	...	4
Other Foreign ports	6,06,273	14	6,06,287	10,589	41,546	9,793	6,62,206	6,78,690	221,042	1,85,127	2,788	2,789	1,80,604	1,035	263	63	420	128
Total of Foreign ports ...	7,97,930	14	7,97,944	1,98,451	47,256	9,793	10,47,427	10,59,411	1,855,802	6,98,177	49,134	6,359	1,98,567	1,481	263	63	420	132
Grand Total 1890	13,97,279	608	13,97,674	2,04,511	70,786	10,802	16,73,747	11,60,123	7,768,874	6,98,177	92,094	6,857	1,98,598	1,740	4,225	1,770	7,559	748

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of April, 1890.

IMPORTS INTO CALCUTTA.

SPECIFICATION OF ROUTES.	FOOD-GRAINS.					FIBROUS PRODUCTS.		OILSEEDS.		Tea, Indian.	Cotton, raw.	Silk, raw.	SUGAR.		TOBACCO.	
	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food-grains.	Jute, raw.	Gunny-bags.	Linseed.	Mustard seed.				Drained.	Undrained.	Unmanufactured.	Manufactured.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
By country boats ...	4,57,178	43,450	51,203	70,388	2,186	1,02,997	773,076	30,476	28,817	.....	2,599	136	4,031	17,042	8,516	678
,, river steamers ..	13,069	703	619	6,351	.....	1,03,135	.....	43,079	70,930	1,626	5,627	209	78	.....	25	.....
,, rail { East Indian Railway.	2,87,823	6,986	3,31,045	1,87,501	16,655	1,659	24,045	5,36,807	1,86,702	133	85,995	992	1,122	9,258	2,174	214
,, rail { Eastern Bengal State Railway.	73,808	1	49,380	53,369	3,208	1,74,070	950,505	78,012	63,960	2,027	5,271	588	.....	22,805	19,500	.....
,, road	63,271	5,958	.....	6,209	.....	24,937	31,900	8,796	.....	.....	634	.....	8,482	21,393	6,843	278
,, sea	1,17,807	13,078	.....	3,231	512	2,051	59,500	102	.....	13	29,522	2	86,025	.....	290	408
Grand Total of Imports in April { 1890 ...	10,13,356	70,176	4,32,337	3,27,049	22,561	4,09,455	1,939,086	7,04,272	3,59,109	3,799	1,28,348	1,927	1,00,338	70,498	37,347	1,634
1889 ...	8,32,495	1,11,438	4,34,452	3,71,062	42,189	2,91,527	1,543,232	6,88,067	2,55,079	4,021	61,327	1,989	17,691	1,28,553	41,730	8,940

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of April, 1890.

EXPORTS FROM CALCUTTA.

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
BENGAL.						
Burdwan ...	2,89,990	1,280	400	1,003	25,714	121,608
Beerbhoom ...	2,16,650	512	278	781	15,965	75,495
Midnapore ...	2,11,180	100	1,653	.....	36,740	10,358
Hooghly ...	1,31,744	3,600	519	100	3,008	83,985
24-Pergunnahs ...	1,75,189	6,407	291	.....	10,624	16,372
Nuddea ...	4,21,277	... ..	1,645	... ..	23,970	83,340
Khulna ...	1,06,400	.....	108	.....	4,015	1,120
Jessore ...	1,45,290	.....	1,071	... .	20,570	4,200
Moorshedabad ...	1,40,350	384	17	37	1,013	30,660
Dinagepore ...	2,68,380	....	240	.. ...	13,320	14,210
Rajshahye ...	2,90,850	... ..	155	.....	14,044	8,855
Rungpore ...	5,60,070	.....	386	.....	28,070	5,250
Bogra ...	2,62,570	.....	102	.....	17,325	29,610
Pubna ...	2,09,860	... .	213	.....	32,788	5,145
Darjeeling ...	1,35,110	.....	177	.....	8,270	210
Julpigoree ...	1,74,240	.....	259	.....	11,107	1,260
Dacca ...	4,83,540	.....	2,088	21	10,188	13,070
Furreedpore ...	2,81,380	.....	441	.....	22,507	21,455
Backergunge ...	3,02,240	.....	1,375	... ..	20,150	10,850
Mymensingh ...	1,55,960	.....	13	.....	7,497	.....
Tipperah ...	..	.....	.....	... .	2,750	... .
Chittagong ...	1,17,020	50	123	16	800	3,000
Noakholly ...	... .	.....	.....	.....	5,975	.....
Total of Bengal...	50,89,309	12,333	12,213	1,958	3,37,309	491,013
BEHAR.						
Patna ...	6,42,670	896	45	247	20,142	136,225
Gya ...	3,32,290	.. ..	26	936	13,534	42,560
Shahabad ...	5,54,260	1,152	17	418	21,051	47,495
Mozufferpore ...	2,38,280	.....	.....	48	8,721	28,455
Durbhunga ...	4,11,670	.....	18	1,045	30,675	81,830
Sarun ...	6,43,510	.....	.....	33	15,023	12,740
Chumparun ...	6,68,010	.....	6	60	11,730	27,050
Monghyr ...	3,28,160	.....	13	636	13,533	81,900
Bhaguipore ...	3,98,090	640	44	305	22,672	96,700
Purneah ...	3,59,450	.....	61	525	15,101	16,065
Maldah ...	.....	.....	... ..	.. ..	7,870	150
Sonthal Pergunnahs	3,82,410	.....	124	731	16,795	100,435
Total of Behar ...	49,58,800	2,688	354	5,084	1,96,937	678,485
ORISSA.						
Cuttack ...	.....	.....	.....	.....	.....	1,000
Balasore ...	2,30,825	.....	231	12,427	24,032	303,950
Total of Orissa ...	2,30,825	.....	231	12,427	24,032	304,950

Whither exported.	Cotton piece-goods.		Cotton twist.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds	No.
CHOTA NAGPORE.						
Hazaribagh	1,10,180	1,792	.....	131	6,014	4,550
Manbhoom	1,34,120	1,024	66	777	12,032	9,275
Singbhoom	4,620	.....	20	250	1,203	6,370
Total of Chota Nagpore .	2,48,920	2,816	86	1,158	19,249	20,195
Grand total of supplies into the Provinces under the Lieutenant-Governor of Bengal ...	1,05,27,905	17,837	12,884	20,627	5,77,527	1,494,643
OTHER PROVINCES.						
Assam	7,71,130	.....	977	502	22,700	14,945
North-Western Provinces and Oudh	42,51,390	4,608	2,764	479	19,852	361,725
Punjab	7,92,960	14,336	598	50	.....	135,695
Central Provinces ...	40,530	256	172	... .	.....	140,140
Rajputana and Central India	49,560	708	175	.....	.....	35,280
Berar	1,120	...	.....	.....	.....	... ..
Nepal	.....	128	.....	.....	.....	.....
Bombay	3,937	.....	.. ..	... .	.....	4,080,200
Madras	59,075	787	243	1,237	4	181,022
Pondicherry	.....	... .	...	.. ..	.....	207,200
Burmah	2,16,341	100	231	1,482	.....	1,125,700
Sind	.....	.....	20	.. ..	.....	10,000
Other places	93,646	1,601	.....	12,537	.....	1,855,742
Grand Total of Exports in April { 1890 ..	1,68,07,584	39,821	18,064	36,974	6,20,083	9,642,292
1889 ...	1,47,88,143	55,161	25,859	13,023	4,82,853	12,604,419

The Sea-borne Trade of Calcutta in these Staples during the month of April 1890, *was as follows:—*

IMPORTED INTO CALCUTTA—	Rs.*	Rs.	Mds.	Mds.	Mds.	No.
From Foreign Ports—						
United Kingdom ...	90,61,549	.....	8,794	... ..	4,78,967	.....
Other Foreign ports ...	48,264	.....	443	.....	2,49,919	53,800
Total of Foreign Trade ...	91,09,813	.....	9,237	.....	7,28,886	53,800
From Indian Ports—						
Bombay	7,862	78,709	.....	5,031	20,184	.....
Madras	... ..	20,751	.....	.....	.....	.....
Other ports in Madras ..	650	.....	.....	36	10,928	... ..
Burmah	11,400	3,050	.....	29	.....	.....
Other Indian ports ...	.....	.....	.....	.....	13,976	5,700
Total of Interportal Trade ...	19,912	1,08,491	.....	5,096	45,088	5,700
Grand Total of Imports in April { 1890 .	91,29,725	1,08,491	9,237	5,096	7,73,974	59,500
1889 ..	1,31,19,026	1,20,291	13,874	7,580	6,80,611	650

* As per tariff declaration value.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of April, 1890.

SPECIFICATION OF ROUTES.	COTTON PIECE-GOODS.		COTTON TWIST.		Salt.	Gunny-bags.
	European.	Indian.	European.	Indian.		
	Rs.	Rs.	Mds.	Mds.	Mds.	No.
By country boats	1,28,500	4,700	607	.....	1,31,128	51,637
,, river steamers	8,45,190	...	2,348	583	41,092	43,111
,, rail { East Indian Railway	1,09,59,550	27,776	4,929	8,594	2,67,229	1,598,115
,, rail { Eastern Bengal State Railway	39,23,570	.....	8,671	.....	1,53,477	132,315
,, road	2,31,820	5,407	661	160	5,021	5,390
,, sea	7,18,954	1,938	848	27,699	22,136	7,767,814
Grand Total of Exports in April ... { 1890 ...	1,68,07,584	39,821	18,064	36,974	6,20,083	9,642,292
1889 ...	1,47,88,143	55,161	25,859	13,023	4,82,853	12,604,419

STATISTICAL DEPARTMENT,
The 10th October, 1890.

C. E. BUCKLAND,
Offg. Secretary to the Govt. of Bengal.

Meteorological Report of the Province of

Meteorological Division.	District.	Representative stations.	Station Observations.														
			Air Pressure.					Temperature.						Humidity.		Cloud.		
			Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 8 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.	Rainfall.
Orissa.	Pooree	Pooree	29·874	29·596	29·712	29·724	—	94·7	76·6	88·6	70·5	84·1	—	87	—	6·1	—	14·41
		Gopalpore	29·860	29·584	29·696	29 718	—·016	93·2	75·8	87·8	78·7	83·3	—0·4	86	—	4·1	—	3·98
		False Point	29·867	29·577	29·710	29·732	—·019	93·5	73 6	87 4	77·1	82·3	—0·7	84	—3	6·9	—0·2	15·71
	Cuttack	Cuttack	29·807	29·524	29 655	29·737	—·004	95·4	74·8	90·0	78·0	84·0	+0·1	80	—2	6 6	0	10·22
	Balasore	Balasore	29·833	29·550	29·684	29·743	—·002	94·4	72·8	88·1	77·6	82·9	+0·8	86	—	4·5	—	23·13
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs	Saugor Island	29·889	29·664	29·727	29·753	+ 003	92·2	75·0	88·7	79·9	84·3	+0·7	88	—2	8·1	+0·6	12·52
	Midnapore	Midnapore	29·745	29·489	29·599	29·750	—·008	103 4?	69·2?	90·3	77·0	83·7	+0·8	83	—	3 8	—	9·05
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	29·890	29·619	29·734	29·756	+·005	92·5	71 7	87·6	70·9	82·3	—0 4	87	0	7·2	—1·0	12·52
	Burdwan	Burdwan	29·836	29·569	29·663	29·764	+·006	95·6	74·9	90·1	78·5	84·3	+0·2	85	—1	7·6	—0·2	11·00
	Bankoora	Bankoora	29·578	29·333	29·429	29·730	—·003	96·1	73·1	89·2	77·2	83·2	—0·1	88	—	5·9	—	11·28
	West Burdwan ... Beerbhoom ...	Ranigunge*	29·581	29·320	29·416	29·750	+·009	90·5	72 9	89·8	77·7	83·8	+0·7	86	—	6 2	—	7·08
	Moorshedabad	Berhampore	29·853	29 601	29·693	29·760	+·002	92·7	72·3	88·3	78·1	83·2	—0·4	90	+4	7·7	—0·8	6·52
	Nuddea	Krishnagore	29·864	29·614	29·710	29·758	+·014	?	?	?	?	?	?	?	—	7·2	—	12·25
	Jessore and Khoolna	Jessore	29·885	29·623	29·732	29·766	—·002	93·8	75·4	89 4	79·0	84·2	+0·4	90	+3	8·1	—0·3	6·09
East Bengal.	Chittagong	Chittagong	29·829	29·611	29·717	29·807	—·001	89·7	73·7	86·8	77·4	82·1	+0·7	88	0	5·9	—1·2	11·47
	Chittagong Hill Tracts	Demagri	Observations not received.															
	Backergunge	Barrisal	29·891	29·663	29·756	29·768	+·002	92·8	73·9	87·4?	78·4	82·9?	+1·1?	87	—	6 2	—	7·76
	Noakholly	Noakholly	29·894	29·665	29·764	29·808	+·028	88·5	73 8	85·9	76·9	81·4	—0·2	88	—	1·8	—	12·98
	Furreedpore	Furreedpore	29·894	29·650	29·749	29 788	+·024	90·5	73 9	87 0	79·9	83·5	+1·0	87	—	5·2	—	5·63
	Dacca	Dacca	29·886	29 657	29·751	29·774	+·002	92·1	74 2	88·9	79·3	84·1	+0·5	86	—3	7 6	+0·4	2·67
	Tipperah	Commillah	29·885	29·647	29·762	29·798	+·016	91·3	72·8	87·8	76·2	82 0	—0·5	88	—	3·7	—	4·53
	Mymensingh	Mymensingh	29 863	29·636	29·730	29·789	+·010	91·2	71 1	86·4	76·6*	81·5*	—0·4	92	—	7·0	—	11·18
North Bengal.	Bogra	Bogra	29·838	29·595	29 694	29·757	+·024	91·3	71·6	87·3	76·8	82·1	—0·4	89	—	5·3	—	18·52
	Pubna	Serajgunge	29·877	29·619	29·728	29 775	+·012	89·6	71·7	86·1	78·4	82·3	—0·4	89	—	7·1	—	15·51
	Rajshahye	Rampore Beauleah.	29·851	29·597	29·693	29·764	+·018	91·8	73·6	88·0	78·5	83 3	+1·2	85	—	2·8	—	11·01
	Maldah	Maldah	29·834	29·574	29·679	29·760	+·076	94·5	70·5	89·6	78·3	84·0	+0·4	87	—	3·0	—	14·43
	Dinagepore	Dinagepore	29·788	29·545	29·652†	29·774†	—·001	92·6	67·6	87·2*	77·1*	82 2*	—0·7	91	—	7·3	—	15·72
	Rungpore	Rungpore	29·820	29·557	29·667	29·793	+·016	93·8	66·7	87·3	75·6	81·5	—1·2	90	—	3·2	—	24·88
	Julpigoree and Cooch Behar.	Julpigoree	29·651	29·378	29·495	29·786	+·014	92·4	65·6	85·5	74·0	79·8	—1·4	94	—	2·4	—	20·41
	Darjeeling Hill Tracts	Darjeeling	23 100	22·876	22·983	—	—·039	68 6	46·2	63 1	54·3	58·7	—1·4	94	+2	8·3	+0·4	10·09
North Behar.	Purneah and North Bhagulpore.	Purneah	29·794	29·536	29 635	29·762	+·008	91·7	66·5	87·2	70·1	81·7	—1·6	88	—1	5·6	—0 9	20·90
	Mozufferpore	Mozufferpore	29·720	29·459	29·555†	29·736†	—	94·3	68·2	88·4	78 8	83·6	—	87	—	4·4	—	5·86
	Durbhunga	Durbhunga	29·760	29·494	29·592	29·759	+·007	94·4	66·5	88·6	77·5	83·1	—0·5	85	—3	5·1	—0·8	5·02
	Chumparun	Motihari	29·708	29·439	29·536	29·765	+·028	95·2	67·8	88·8	76·5	82·7	—0·2	84	—	5·9	—	10·43
	Sarun	Chupra*	29·704	29·450	29·535	29·729	—·003	90·3	69·2	88·2	78·8*	83·5*	+0·5	85	—	3·2	—	5·44
South Behar.	Shahabad	Dehree	29·551	29·261	29·371	29·737	—·018	93·3	67·5	89·3	77·4	83·3	+0·6	80	—	5·0	—	5·26
		Buxar	29·672	29·387	29·490	29·754	—·008	95·4	67·3	88·4	76·9	82·7	—0·2	84	—	5·3	—	9·06
		Arrah	29·710	29·388?	29·536	29·732	+·003	96·4	67·7	89·6	77·0	83·3	—1·0	83	—	3·8	—	8·18
	Gya	Gya	29·536	29·249	29·354	29·735	—·007	97·0	68·8	90·6	78·1	84·4	0	79	—2	5·0	—2·4	6·02
	Patna	Bankipore	29·734	29·465	29·557	29·741	—·007	94·9	68·2	89·3	78·6	84·0	—0·8	81	—4	5·8	—1·2	4·94
	South Bhagulpore and Monghyr.	Bhagulpore	29·745	29·486	29·576	29·739	+·001	94·2	68·5	88·6	76·9	82·8	—0·3	86	—	5·3	—	5·76
	Southal Pergunnahs	Naya Doomka	29·414	29·107	29·253	29·753	+·011	94·8	71·3	88·6	78·3	83·5	+0·4	84	—	2·4	—	6·05
Chutia Nagpur.	Hazaribagh	Hazaribagh	27·876	27·606	27·739	29·751	—·007	91·0	64·8	84·5	71·7	78·1	—0·2	85	0	8·1	0	7·76
	Lohardugga ... Manbhoom ...	Ranchee	27·530	27·750	27·620	29·749	—·003	89·0	64·9	83·3	70·3	76·8	—0·3	82	—1	6·5	—	9·60
	Singbhoom	Chyebassa	29·117	28·878	28·974	29·742	+·011	94·4	71·2	88·7	75·6	82·1	—0·1	84	—	6·6	—	6·67
Assam.	Assam	Silsagar	29·681	29·378	29·496?	29·833?	+·015?	94·1	67·4	87·1	75·1	81·1	—1·7	93	+1	8·3	—0·2	9·39
		Dhubri	29·890	29·555	29·676	29·795	+·003	89·7	69·3	83·6	76·0	80·0	—1·4	93	0	7·3	+0·6	15·96
		Silchar	29·899	29·593	29·701	29·807	+·004	95·6	67·3	89·4	75·0	82·3	—0·7	89	+1	8·3	+0·7	12·06

* Mean of 29 days.
† „ 28 „

Bengal for the month of September 1890.

DISTRICT OBSERVATIONS. RAINFALL. Of month. Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Since 15th May 1890. Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.	Representative station.	DISTRICT.	Meteorological Divisions.
15·94	10·15	+5·79	20·8	16·2	54·05	44·15	+9·90	79·7	67·9	Pooree ... Gopalpore ... False Point ...	Pooree	Orissa.
16·78	9·33	+7·45	17·8	15·6	51·82	44·17	+7·65	73·4	67·8	Cuttack ..	Cuttack	
18·42	11·10	+7·32	17·2	14·5	50·55	46·49	+4·06	69·4	66·1	Balasore .	Balasore	
13·32	11·45	+1·87	15·7	15·9	47·28	53·28	−6·00	75·7	74·3	Saugor Island .	South-West Midnapore and South 24-Pergunnahs.	South-West Bengal.
9·98	8·09	+1·89	15·6	13·0	45·24	46·34	−1·10	73·9	64·6	Midnapore ..	Midnapore	
9·57	8·52	+1·05	14·1	16·0	46·86	46·39	+0·47	74·1	70·7	Calcutta ..	24-Pergunnahs, Howrah and Hooghly.	
11·98	7·67	+4·31	14·0	13·5	56·16	41·85	+14·31	74·0	67·6	Burdwan ...	Burdwan	
8·07	8·17	+0·80	13·5	14·0	46·06	48·01	−1·35	70·1	72·3	Bankoora .	Bankoora	
10·27	9·88	+0·39	14·8	15·5	55·51	47·99	+7·52	79·0	55·3	Ranigunge ...	West Burdwan and Beerbhoom.	
9·85	10·40	−0·55	14·2	14·7	52·79	45·44	+7·35	73·6	70·5	Berhampore ...	Moorshedabad	
10·09	8·59	+1·50	12·8	13·5	46·25	44·09	+2·16	75·2	69·6	Krishnagore ..	Nuddea	
5·34	8·94	−3·60	11·8	14·1	45·62	47·80	−2·18	78·8	75·2	Jessore ...	Jessore and Khoolna ...	
11·40	14·32	−2·92	17·0	17·8	113·80	103·74	+10·06	94·0	94·3	Chittagong ...	Chittagong	East Bengal.
9·31	12·55	−3·24	12·5	20·1	68·06	70·61	−2·55	89·0	97·2	Demagri ...	Chittagong Hill Tracts	
6·84	12·12	−5·28	13·3	17·9	61·03	68·80	−7·77	90·1	93·3	Barrisal ...	Backergunge	
11·05	16·76	−5·71	15·0	18·7	89·08	96·79	−7·71	97·0	94·4	Noakholly ..	Noakholly	
4·10	9·05	−4·95	10·3	13·8	37·89	49·90	−12·01	70·6	76·8	Furreedpore ...	Furreedpore	
3·57	10·17	−6·60	9·3	14·6	52·07	54·62	−1·65	85·3	81·1	Dacca ...	Dacca	
5·65	11·35	−5·70	10·8	16·3	53·85	61·84	−7·99	79·9	85·3	Commillah ...	Tipperah	
9·48	13·04	−3·56	12·8	15·9	66·74	62·69	+4·05	83·0	80·7	Mymensingh ...	Mymensingh	
16·50	10·41	+6·09	14·5	13·2	64·75	52·16	+12·59	84·6	69·8	Bogra ...	Bogra	North Bengal.
12·39	10·42	+1·97	14·5	14·2	48·76	47·94	+0·82	87·5	71·8	Serajgunge ...	Pubna	
15·16	11·86	+3·30	13·0	13·8	65·00	48·89	+16·11	82·9	68·5	Rampore Beauleah.	Rajshahye	
12·95	11·05	+1·90	11·5	14·8	54·51	49·71	+4·80	81·5	75·4	Maldah ..	Maldah	
17·42	11·32	+6·10	9·4	13·6	70·33	52·60	+17·73	70·6	71·7	Dinagepore ...	Dinagepore	
26·65	13·44	+13·21	17·0	13·6	88·56	68·20	+20·36	93·8	69·4	Rungpore ...	Rungpore	
24·68	21·04	+3·64	15·4	16·6	139·54	104·24	+35·30	104·4	89·0	Julpigoree ...	Julpigoree and Cooch Behar.	
22·38	16·64	+5·74	21·5	19·5	151·13	113·52	+37·61	118·6	102·0	Darjeeling ...	Darjeeling Hill Tracts.	
14·09	12·39	+1·70	8·4	12·9	74·44	54·38	+20·06	72·2	64·1	Purneah ...	Purneah and North Bhagulpore.	North Behar.
7·18	8·99	−1·81	10·0	10·6	50·78	39·27	+11·51	69·7	51·6	Mozufferpore ...	Mozufferpore	
5·94	9·25	−3·31	8·0	10·7	55·85	40·98	+14·87	68·2	52·3	Durbhunga ...	Durbhunga	
9·08	9·30	−0·22	9·0	9·5	62·75	42·35	+20·40	63·0	49·0	Motihari ...	Chumparun	
8·18	7·45	+0·73	9·3	10·2	52·12	37·46	+14·66	61·4	51·2	Chupra ...	Sarun	
7·45	7·07	+0·38	10·6	11·9	48·23	35·76	+12·47	69·6	54·9	Dehree ... Buxar ... Arrah ..	Shahabad	South Behar.
4·85	6·79	−1·94	8·8	10·1	56·51	37·74	+18·77	67·7	51·1	Gya ...	Gya	
7·87	7·04	+0·53	9·5	12·5	46·77	37·16	+9·61	64·2	55·5	Bankipore ...	Patna	
5·35	7·91	−2·56	10·4	12·0	49·28	30·14	+10·14	69·8	59·5	Bhagulpore ...	South Bhagulpore and Monghyr.	
7·18	10·21	−3·03	11·5	13·9	53·05	46·35	+6·70	76·7	68·5	Naya Doomka...	Sonthal Pergunnahs ...	
7·74	9·07	−1·33	12·2	15·2	47·69	45·87	+1·82	73·2	72·6	Hazaribagh ...	Hazaribagh	Chutia Nagpur.
6·36	8·90	−2·54	13·0	15·7	45·35	44·23	+1·12	73·3	75·0	Ranchee ...	Lohardugga	
5·99	7·69	−1·70	14·5	14·8	38·22	42·70	−4·48	75·5	74·8		Manbhoom	
7·19	8·33	−1·14	17·0	16·6	32·21	47·29	−15·08	78·0	81·1	Chyebassa ...	Singbhoom	
										Sibsagar... ... Dhubri ... ... Silchar	Assam ...	Assam.

Table of Rainfall recorded at Stations in Bengal in September 1890.

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA ...	Pooree ...	Pooree ...	...	0·03	...	...	0·23	0·06	...	0·30	0·82	0·04	...	0·12	...	0·58	0·99	0·10	...	0·05	0·20	0·5
		Khurdah ...	...	...	...	2·93	1·83	1·53	0·33	0·50	0·23	0·05	0·04	...	0·30	0·15	0·07	0·03	...	0·13	0·19	0·0
		Banpur ...	...	0·40	0·31	...	0·06	1·06	0·80	0·50	...	...	...	0·08	1·24	0·81	3·04	...	1·30	1·50	0·15	0·0
		False Point ...	0·03	...	...	...	...	...	...	...	...	0·01	...	...	0·98	0·28	0·08	0·58	0·10	0·33	0·19	0·1
		Gop ...	...	...	...	...	0·20	...	...	...	...	...	...	...	0·11	0·33	0·20	...	...	...	0·32	0·1
		Satpara ...	...	...	...	...	...	...	...	0·13	0·85	...	...	...	...	1·45	0·25	...	0·35	0·28	0·10	0·7
		Pipli ...	...	...	0·32	0·20	1·32	0·14	0·14	1·14	0·53	...	...	0·27	...	...	...	...	0·27	0·12	0·12	0·1
	Cuttack ...	Jagatsingpore	...	...	1·75	0·05	2·10	...	0·40	0·03	...	...	...	0·05	0·18	0·40	...	0·15	...	0·17	...	0·6
		Banki ...	...	...	...	0·49	0·35	...	0·08	...	...	0·13	0·19	0·11	...	...	3·55	0·77	...	0·14	0·43	...
		Cuttack ...	0·40	...	...	...	...	0·10	0·45	...	...	...	0·02	...	0·37	0·24	0·47	4·10	0·01	0·04	0·06	...
		Kendrapara ...	...	...	...	0·81	...	0·02	...	...	...	0·34	0·87	0·67	0·09	1·68	0·22	1·36	0·31	0·22	0·12	...
		Jajpore ...	...	...	...	0·33	...	0·60	...	0·23	...	0·38	...	...	1·81	...	1·84	0·09	0·21	0·56	0·19	...
		Dharmsalla ...	...	...	...	...	0·50	...	0·20	...	...	0·72	0·15	0·15	0·10	...	0·30	0·27	0·70	0·15	...	0·6
		Salipore ...	...	...	...	...	...	...	...	...	...	...	...	...	0·60	0·54	1·14	...	0·17	0·41	...	0·3
	Balasore ...	Chandbali ...	...	...	...	...	...	...	...	...	...	0·80	0·60	0·08	0·44	1·30	0·17	1·05	0·35	0·25	...	0·1
		Bhuddruck ...	0·15	...	2·40	1·20	...	...	...	...	...	0·72	...	...	...	...	0·85	2·09	0·84	0·60	0·15	...
		Sorah ...	...	...	0·10	...	...	...	...	...	...	...	0·10	0·15	0·21	0·40	2·40	0·36	0·65	0·08	0·70	...
		Balasore ...	...	...	...	...	...	0·21	...	...	0·12	...	...	...	...	0·05	1·19	0·25	0·73	0·81	0·33	...
		Jellasore ...	...	...	0·17	...	...	...	...	...	...	...	...	...	...	...	1·91	0·95	0·87	0·12	0·40	...
		Baripodah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·35	1·32	0·21	0·51	0·15	...	0·0
SOUTH-WEST BENGAL.	Midnapore ...	Contai ...	...	...	...	0·07	...	...	...	...	...	...	...	...	...	0·61	0·52	0·53	0·02	0·74	0·04	0·0
		Saugor Island	...	...	...	...	...	...	...	...	...	...	...	...	...	1·26	0·32	0·24	0·11	0·20	...	...
		Tumlook ...	...	...	...	...	...	...	...	...	...	...	0·50	...	0·20	0·10	0·40	0·40	0·10	0·20	...	0·4
		Midnapore ...	0·37	...	...	...	...	0·40	...	...	...	...	...	...	...	...	...	0·52	0·45	0·23	...	0·1
		Ghatal ...	...	...	...	...	...	...	0·17	...	...	...	...	...	...	0·45	...	0·54	0·07	0·08	...	0·4
		Kukrahaty ...	...	...	...	0·32	...	...	...	...	...	...	...	...	...	0·26	0·32	0·68	...	0·34	...	0·4
		Garbeta ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·09	...	0·47	...	0·18	...	...
	24-Pergunnahs	Diamond Harbour.	...	...	...	0·04	...	...	...	...	...	...	...	...	...	0·79	1·45	0·20	...	0·10	0·32	...
		Canning Town	...	...	...	0·45	...	...	...	...	...	0·31	0·16	...	...	0·22	0·45	0·72	0·10	0·22	0·10	0·0
		Alipore Jail ...	...	...	...	...	...	...	1·55	...	...	...	...	...	...	0·10	0·53	0·62	0·08	0·48	0·18	0·0
		Barrackpore...	...	...	0·38	...	...	...	...	...	...	...	...	...	...	...	0·27	...	...	0·17	...	...
		Dum-Dum ...	0·09	...	...	0·53	...	...	1·11	...	...	...	1·02	...	...	...	0·26	0·23	0·45	...	...	...
		Baraset ...	...	...	0·09	...	...	...	...	0·44	...	...	0·40	0·10	0·16	...	1·08	...	...	...	1·38	...
		Busserhat ...	0·27	...	1·28	...	...	...	...	...	...	...	...	...	...	1·10	0·05	0·09	...	...	0·24	...
	Howrah ...	Howrah ...	...	...	...	...	...	...	0·07	0·02	...	...	...	...	...	...	0·20	0·19	0·16	0·01	0·17	...
		Mohesreka (*Oolooberiah*).	...	...	...	...	...	...	0·60	...	...	...	0·14	...	...	...	0·14	0·32	...	0·56	...	...
	Hooghly ...	Serampore ...	...	...	0·51	...	...	...	...	...	...	...	...	...	...	0·05	0·18	0·19	0·49	...	...	...
		Hooghly ...	...	...	1·98	0·07	0·03	...	...	...	...	...	...	...	...	0·10	...	0·14	0·31	...	...	0·3
		Jehanabad ...	...	...	...	...	...	...	0·22	...	...	...	...	...	...	0·15	...	0·12	0·20	0·11	...	...
	Burdwan ...	Culna ...	...	3·15	...	...	0·82	0·02	...	...	...	...	...	...	...	0·23	...	...	0·43	...	...	0·1
		Burdwan ...	...	...	0·77	...	3·40	...	...	1·64	...	0·10	...	...	...	0·05	...	0·06	1·20	...	...	0·0
		Cutwa ...	0·49	...	...	...	...	...	...	0·19	0·55	...	...	0·09	...	...	0·37	...	...	...	...	...
		Raneegunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·57	0·08	0·40	...	...	0·0
		Mankur ...	...	...	0·61	...	...	...	...	...	...	...	...	...	...	...	...	0·24	...	...	...	...
	Bankoora ...	Bankoora ...	...	...	...	1·00	...	...	...	...	0·30	...	...	0·60	...	0·46	0·48	0·31	0·94	...	...	...
		Bishenpore ...	...	...	0·12	...	...	...	...	...	...	...	...	...	...	...	...	0·13	0·98	...	...	...
		Maliara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·90	0·08	0·30	0·05	...	...	...
		Khatra ...	...	...	...	0·25	...	...	...	...	...	...	...	...	...	0·C7	...	1·40	0·39	0·20	...	...
		Indas ...	...	...	0·30	...	...	0·07	...	...	...	...	...	...	0·50	...	...	...	0·37	...	...	...
		Kotalpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·22	...	0·32	0·66	0·40	...	...
		Anda ...	...	...	...	0·15	...	...	...	...	...	...	...	...	...	...	...	3·13	...	...	...	0·
		Gangajalghati	...	...	...	...	...	...	...	...	...	...	...	...	...	0·95	...	1·88	0·11	...	...	...
		Raipore ...	0·42	...	0·19	...	...	...	...	...	...	...	...	...	...	...	...	0·65	0·27	0·35	...	0·
		Sonamukhi ...	...	...	...	...	...	...	...	0·51	...	...	...	...	0·46	...	...	...	...	...	...	...
	Beerbhoom ...	Bh. Soory ...	...	...	0·21	0·03	0·02	...	...	0·03	...	...	0·25	...	...	...	...	0·07	0·15	...	...	...
		Hetampore ...	...	...	0·60	...	0·20	...	2·95	...	...	0·12	0·05	...	...	...	0·12	...	...	...	...	...
		Rampore Haut	...	...	...	...	0·17	0·10	...	...	...	...	...	...	...	...	0·48	0·55	...	...	...	...
		Bolpur ...	...	...	...	0·95	0·08	...	...	0·06	0·19	...	...	...	...	...	...	...	0·54	...	...	...
		Murarai ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·65	...	...	...	...	...
	Nuddea ...	Ranaghat ...	...	...	1·04	...	1·10	1·98	...	...	...	...	...	...	0·19	...	...	0·06	0·54	0·03	...	0·
		Kishnaghur ...	...	0·26	1·39	...	0·62	0·07	...	...	...	...	...	0·01	...	0·28	...	0·07	0·79	...	...	...
		Choocadanga...	...	...	...	...	...	...	...	...	0·13	...	...	...	...	0·60	0·10	...	0·35	...	...	...
		Meherpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·55	...	...	...	...
		Kooshtea ...	2·22	...	...	...	...	...	...	...	0·16	...	...	...	...	0·03	0·22	...	0·35	...	...	...
	Khoolna ...	Satkhira ...	...	...	1·31	0·02	...	...	...	...	...	...	...	...	...	0·38	0·42	0·34	0·21	...	...	0
		Bagirhat ...	...	...	...	...	...	...	...	...	0·38	...	...	0·15	0·85	...	0·59	0·88	0·19	0·27	...	...
		Khoolna ...	...	...	0·17	...	...	...	...	...	1·13	...	...	...	...	1·13	0·35	0·15	...	...	...	...
		Nakipur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·20	0·19	0·50	0·17	...	...	...
		Rampal ...	...	...	0·21	...	...	...	...	...	...	0·27	...	0·18	...	0·10	1·21	...	0·27	...	...	...
	Jessore ...	Narail ...	0·05	...	...	...	...	...	...	...	...	...	...	...	...	0·18	0·09	...	0·07	...	...	...
		Jessore ...	...	0·16	...	...	...	...	...	...	0·04	...	...	...	0·46	...	0·11	...	0·04	...	...	...
		Jhenidah ...	0·45	...	...	...	...	...	...	0·07	...	...	...	0·11	...	1·22	...	0·22	...	...	...	...
		Magoorah ...	0·02	...	...	...	...	...	...	...	...	...	...	...	...	0·85	0·05	0·36	0·17	...	...	...
		Bongong ...	...	...	1·45	...	1·21	0·15	...	...	...	...	...	...	...	0·25	0·35	0·25	0·15	...	...	...
	Moorshedabad	Kandi ...	...	...	...	...	...	0·24	...	...	...	...	...	...	...	...	...	0·17	...	...	...	...
		Berhampore...	...	0·30	...	...	...	...	...	...	0·07	...	...	...	...	0·69	0·07	...	0·10	...	...	...
		Lalbagh ...	...	0·08	0·28	...	...	0·53	...	...	0·15	...	...	...	...	...	0·28	0·42	...	...	...	...
		Azimgunge ...	0·22	0·06	1·12	...	...	1·50	...	...	...	...	...	...	...	...	0·09	...	0·06	...	...	...
		Jungipore ...	...	0·28	0·16	0·03	...	...	...	...	...	...	...	...	...	0·11	0·70	0·31	...	...	...	...
		Lalgola ...	...	0·54	...	0·45	...	...	...	...	...	0·35	...	...	...	...	1·15	0·20	0·25	0·30	...	...
		Jiagunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Akhriganj ...	...	...	2·40	1·22	...	...	...	...	...	...	...	...	...	...	...	0·70	...	...	...	...
		Patkabari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·60	0·10	...	...	...	...
EAST BENGAL	Chittagong ...	Cox's Bazar ...	0·40	2·20	0·34	...	0·03	...	0·04	...	0·06	0·40	...	0·75	2·51	3·34	...	0·10	...	0·09	0·24	[illegible]
		Chittagong ...	0·95	0·23	...	0·11	0·91	0·22	2·32	0·44	0·15	...	...	...	0·05	3·32	...	0·07	...	...	0·20	[illegible]
		Kutubdia ...	1·06	2·94	...	...	...	...	0·30	...	0·06	...	...	...	0·06	3·97	...	0·40	...	...	0·25	[illegible]
		Sathanga ...	8·40	0·50	0·50	0·60	...	0·81	2·05	...	...	...	...	...	0·04	1·56	0·80	...	0·55	0·10	0·40	[illegible]
	Chittagong Hill Tracts.	Rangamati ...	0·41	0·07	...	...	0·34	1·51	0·90	...	0·05	0·12	...	0·43	0·57	0·29	0·61	...	...	0·05	...	...
		Ruma ...	0·30	...	...	...	...	...	2·50	...	...	...	1·30	1·75	...	...	1·10	...	...	0·50	1·7	...

21	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th September 1890.	Average rainfall from 1st January up to 30th September.	Station.	District.	Meteorological division.
...	0·09	0·68	6·18	4·26	0·22	...	0·71	0·11	...	20	17·5	16·30	9·95	6·18	57·19	43·80	Pooree ...	Pooree ...	ORISSA.
0·13	0·10	0·68	1·75	1·54	0·65	...	...	...	...	21	18·4	13·23	10·36	2·93	61·18	50·38	Khurdah.		
0·21	1·22	0·68	1·40	0·78	0·56	...	1·75	0·56	...	23	13·3	18·52	9·77	3·04	58·16	44·47	Banpur.		
0·13	1·46	0·40	3·19	2·65	1·59	0·47	0·27	1·23	0·63	20	15·6	15·71	11·14	3·19	52·46	56·25	False Point.		
0·58	0·12	3·30	3·50	3·11	...	2·55	2·11	0·12	0·24	15	?	15·98	?	3·50		?	*Gop.*		
0·15	0·70	0·56	0·78	0·65	0·29	...	0·14	0·13	...		?	7·50	?	1·45	31·62	?	*Satpara.*		
...	0·57	2·57	1·13	0·90	...	1·45	0·13	...	0·31	19	?	11·76	?	2·57		?	*Pipli.*		
0·80	0·70	1·00	4·20	1·60	0·60	...	1·40	1·41	0·19	20	11·9	17·38	8·61	4·20	55·39	43·75	Jagatsingpore	Cuttack.	
...	2·58	0·74	2·20	1·12	0·48	0·03	...	...	...	16	21·4	13·99	9·54	3·55	53·61	46·86	Banki.		
...	1·40	2·10	3·60	4·53	2·40	...	...	...	0·13	17	18·6	21·02	9·70	4·53	74·67	51·08	Cuttack.		
...	0·08	0·35	4·05	1·72	1·44	...	2·17	...	0·08	19	13·4	16·55	9·14	4·05	45·96	40·73	Kendrapara.		
...	0·90	1·70	1·50	2·59	0·75	0·54	...	0·79	...	17	12·8	15·01	9·94	2·59	48·65	53·42	Jajpore.		
...	2·90	2·75	1·00	1·35	...	...	...	...	0·35	16	?	12·19	?	2·90	50·23	?	*Dharmsala.*		
...	1·47	2·60	1·72	1·63	...	...	1·25	...	...	11	?	11·85	?	2·60	45·45	?	*Salipore.*		
0·73	0·10	0·32	2·45	3·10	0·50	1·35	...	...	...	17	14·1	13·74	11·04	3·10	44·08	50·60	Chandbali	Balasore.	
...	0·50	0·60	1·90	1·70	0·14	0·45	0·03	0·15	...	17	14·2	14·47	10·50	2·40	50·58	52·74	Bhuddruck.		
0·03	1·40	3·50	1·55	2·30	0·15	0·43	0·50	4·00	0·07	20	13·6	19·07	11·13	4·00	57·00	50·66	Sorah.		
0·30	1·34	2·48	3·54	4·82	4·19	0·27	2·20	0·02	0·04	18	16·1	22·89	12·63	4·82	61·74	58·84	Balasore.		
0·15	3·10	1·50	4·07	3·57	3·20	0·68	2·00	...	0·36	15	12·9	23·05	10·48	4·07	59·37	52·42	Jellasore.		
1·13	0·56	2·05	7·72	1·50	1·90	0·05	0·10	0·25	0·36	16	16·3	18·30	11·77	7·72	57·20	55·38	Baripodah.		
0·19	1·28	1·19	2·30	2·41	3·13	0·57	0·79	0·66	...	17	14·3	15·11	11·74	3·13	48·25	59·48	Contai	Midnapore ...	SOUTH-WEST BENGAL.
0·30	0·10	1·57	2·90	0·81	3·45	0·50	0·16	0·58	...	14	10·8	12·52	12·56	3·45	46·88	64·05	Saugor Island		
0·10	0·10	0·30	1·80	0·70	2·10	0·70	3·30	0·80	...	17	9·2	12·20	8·33	3·35	52·20	53·81	Tumlook.		
0·32	0·40	0·52	1·66	1·00	0·31	0·53	0·12	0·66	0·22	16	15·0	7·80	8·19	1·66	44·44	54·06	Midnapore.		
...	1·04	1·31	1·10	0·35	0·80	2·05	0·07	1·32	0·19	15	14·7	9·95	8·98	2·05	45·04	58·41	Ghatal.		
0·06	0·41	1·14	2·26	1·04	0·40	1·56	1·21	3·26	...	15	?	13·71	?	3·26	41·61	?	*Kukrahaty.*		
0·43	...	0·44	1·43	0·07	1·32	0·97	...	3·25	0·32	11	?	9·02	9·04	3·25	47·84	52·01	*Garbeta.*		
0·12	1·22	0·72	1·32	0·06	2·54	0·91	1·18	1·32	0·05	16	16·7	12·34	11·01	2·54	52·74	60·06	Diamond Harbour.	24-Pergunnahs.	
0·10	0·74	0·34	0·45	...	0·75	1·27	...	0·70	0·01	18	?	7·18	?	1·27	53·75	?	*Canning Town.*		
0·02	...	0·57	0·10	0·01	0·18	4·60	0·51	2·70	0·27	17	14·5	12·12	9·90	4·60	55·14	58·25	Alipore Jail.		
...	0·60	0·52	...	0·05	...	2·57	2·09	2·40	0·08	10	14·3	9·13	7·44	2·57	45·40	51·81	Barrackpore.		
...	...	0·98	0·12	...	0·26	3·29	1·13	2·30	...	13	16·4	11·77	8·79	3·29	46·09	55·12	Dum-Dum.		
...	0·43	0·22	0·10	0·22	0·17	2·47	1·10	0·63	...	15	15·7	9·60	9·02	2·47	45·91	53·79	Baraset.		
...	0·12	...	0·26	...	1·19	0·42	...	0·29	...	11	14·5	5·31	8·70	1·28	54·78	57·62	Busserhat.		
0·10	0·46	1·21	0·08	...	0·03	2·90	0·92	3·21	0·22	16	18·7	9·95	9·10	3·21	46·16	[illegible]55	Howrah	Howrah.	
0·13	0·11	0·32	0·15	0·02	1·67	1·01	2·44	1·77	0·03	15	15·1	10·01	8·33	2·44	55·21	55·98	Mohesreka (*Oolooberiah*).		
...	0·71	0·89	0·06	...	0·25	1·20	4·05	1·95	0·10	14	17·3	10·53	7·00	4·05	48·63	53·52	Serampore ...	Hooghly.	
...	0·88	0·30	0·83	0·06	0·09	1·22	3·58	1·95	0·68	16	15·5	12·52	7·63	3·58	47·76	55·10	Hooghly.		
...	0·03	0·24	0·21	0·01	0·10	2·04	0·03	0·86	0·06	14	14·6	4·38	9·62	2·04	51·39	57·93	Jehanabad.		
...	0·43	...	0·50	...	0·63	0·22	3·35	1·10	0·03	13	10·6	10·91	6·54	3·15	53·55	48·32	Culna	Burdwan.	
0·12	1·12	0·40	0·34	0·10	0·31	1·40	0·06	1·56	0·03	16	16·4	11·00	8·26	3·40	63·83	52·05	Burdwan.		
0·33	1·90	0·87	0·04	1·30	2·50	0·33	4·10	0·07	...	13	13·4	14·04	8·20	4·10	59·78	51·34	Cutwa.		
...	1·08	2·13	0·53	0·05	0·22	1·43	0·35	0·34	...	15	14·9	8·03	7·14	2·13	53·35	50·09	Raneegunge.		
...	0·07	1·50	0·36	0·11	0·05	0·48	0·36	1·09	...	10	?	4·89	?	1·50	46·31	?	*Mankur.*		
...	1·51	1·28	1·22	0·08	0·40	1·48	0·04	1·23	...	15	15·9	11·28	8·50	1·51	55·25	51·27	Bankoora	Bankoora.	
0·85	0·31	0·19	1·89	0·24	1·09	0·76	0·06	2·34	0·36	13	14·4	9·90	9·17	2·34	48·45	54·67	Bishenpore		
...	0·20	3·37	0·23	0·22	0·11	1·82	0·19	0·10	0·06	13	11·0	7·63	6·02	3·37	54·64	49·71	Maliara.		
...	0·12	1·10	0·85	0·56	0·51	1·12	0·20	0·20	...	13	13·8	7·06	9·43	1·40	35·04	54·7[illegible]	Khatra.		
...	0·06	0·85	0·41	0·45	0·04	1·46	...	2·22	0·16	12	?	6·80	?	2·22	56·21	?	Indas.		
...	0·05	0·38	1·00	0·12	0·73	0·55	...	2·05	0·15	12	?	6·63	?	2·05	63·85	?	Kotalpore.		
0·41	...	1·00	2·05	1·00	0·80	1·24	1·40	...	...	9	?	11·18	?	3·13	46·81	?	Anda.		
...	...	2·98	1·69	...	0·72	1·37	0·12	0·41	...	10	?	10·49	?	2·98	61·53	?	Gangajalghati.		
0·58	0·55	0·83	1·35	0·45	0·12	2·05	0·12	0·57	0·56	15	?	9·15	8·92	2·05	48·63	52·90	*Raipore.*		
...	0·28	3·28	0·72	0·35	0·52	0·46	0·74	1·37	...	11	?	9·00	?	3·28	49·88	?	*Sonamukhi.*		
...	0·05	1·19	1·68	0·09	0·24	2·29	0·40	0·29	1·58	16	17·4	8·57	0·77	2·29	57·44	51·97	Bh. Soory	Beerbhoom.	
0·30	...	2·00	0·84	0·18	0·32	2·23	0·43	1·07	0·17	15	14·5	11·58	10·32	2·95	53·66	53·06	Hetampore.		
...	2·42	1·15	0·33	0·50	0·69	2·44	1·18	2·70	0·18	13	15·2	12·89	11·22	2·70	65·30	52·32	Rampore Haut.		
...	1·28	2·32	0·46	...	0·20	2·02	0·26	1·80	...	12	?	10·25	?	2·32	54·76	?	*Bolpur.*		
...	2·35	...	1·10	0·45	1·60	0·85	...	...	...	6	?	7·00	?	2·35	52·98	?	*Murarai.*		
...	0·13	0·17	0·42	...	0·24	1·12	1·85	1·93	0·16	14	12·1	11·02	6·95	1·98	50·71	51·01	Ranqahat ...	Nuddea.	
...	...	2·46	0·09	...	0·14	0·14	2·85	2·31	0·05	15	14·1	12·13	7·84	2·85	55·49	50·57	Kishnaghur.		
...	0·05	0·65	0·28	0·12	0·07	...	3·40	2·25	0·08	12	13·7	8·08	9·84	3·40	42·74	53·37	Choodanga.		
0·52	...	2·46	...	0·88	0·67	0·40	...	3·58	...	7	13·2	9·06	7·92	3·58	48·36	52·39	Meherpore.		
...	0·40	1·85	0·08	0·09	0·14	0·20	2·15	2·22	0·04	14	14·6	10·16	9·96	2·22	51·42	56·93	Kooshtea.		
0·01	0·01	0·16	0·69	0·09	0·45	2·61	...	0·06	0·02	16	16·4	6·82	8·71	2·61	56·93	59·30	Satkhira ...	Khoolna.	
...	...	0·13	1·72	0·60	0·38	0·90	...	...	...	11	13·4	5·66	9·70	1·72	60·57	63·93	Bagirhat.		
...	0·60	1·05	0·37	...	0·21	0·45	...	...	...	10	15·4	4·86	9·58	1·13	50·01	60·02	Khoolna.		
0·48	...	0·68	0·67	0·34	2·48	1·19	...	...	...	11	?	9·03	?	2·48	64·05	?	*Nakipur.*		
0·48	...	0·43	2·83	0·51	1·02	0·87	...	...	...	12	?	8·38	?	2·83	57·28	?	*Rampal.*		
...	0·09	0·33	0·07	0·03	0·13	0·15	...	0·64	...	11	13·4	1·83	7·08	0·64	47·90	51·08	Narail ...	Jessore.	
...	0·60	2·30	0·18	...	0·71	0·22	0·05	1·09	0·11	13	16·1	6·09	9·26	2·30	58·32	61·19	Jessore.		
...	1·55	0·26	...	...	0·00	...	1·02	2·14	...	10	13·2	7·13	8·71	2·14	53·14	56·92	Jhenidah.		
...	0·05	0·17	...	...	...	0·19	0·05	0·57	...	10	14·0	2·48	7·99	0·85	45·20	55·52	Magoorah.		
...	0·20	...	0·45	...	0·35	0·95	1·10	1·00	...	13	10·8	7·86	8·34	1·45	42·13	53·73	Bongong.		
...	2·40	1·05	1·05	0·17	0·52	0·79	1·78	4·35	0·20	11	14·6	12·67	8·87	4·35	62·48	50·90	Kandi ...	Moorshedabad.	
0·08	0·69	0·60	0·52	0·13	0·34	0·98	0·74	2·57	0·60	15	15·1	8·52	9·63	2·57	53·50	49·74	Berhampore.		
...	1·09	0·65	0·08	0·45	0·23	0·57	0·78	3·13	0·38	15	14·1	9·66	10·12	3·13	56·74	50·47	Lalbagh.		
...	0·70	1·25	...	0·65	0·60	0·50	1·10	2·08	...	13	15·3	9·98	9·53	2·08	52·81	50·05	Azimgunge.		
...	0·55	0·21	0·56	0·50	0·30	1·05	1·02	1·55	0·20	15	14·5	7·53	10·64	1·55	45·75	49·75	Jungipore.		
...	0·62	0·15	0·45	0·42	0·50	2·20	1·45	1·30	0·45	16	14·5	10·78	9·71	2·20	60·44	50·35	Lalgola.		
											?		?			?	Jaigunge.		
...	...	0·90	0·17	0·89	0·11	1·60	1·33	1·65	0·29	11	?	11·26	?	2·40	55·26	?	*Akhriganj.*		
0·90	1·60	0·20	...	0·50	1·09	1·20	3·00	1·00	...	11	?	10·60	?	3·00		?	*Patkabari.*		
...	...	0·23	0·35	...	...	0·64	0·10	...	...	17	17·3	11·79	14·71	3·34	131·10	133·16	Cox's Bazar ..	Chittagong ...	EAST BEHAR.
...	0·18	0·55	0·20	...	...	0·08	...	...	...	17	18·4	11·01	13·75	3·52	111·61	97·45	Chittagong.		
0·67	...	0·15	0·38	...	...	1·74	...	...	...	13	?	15·54	?	6·97	111·47	?	*Kutubdia.*		
0·52	...	1·15	0·30	...	...	0·37	...	...	...	17	?	10·61	?	2·05	84·31	?	*Satkanya.*		
...	1·31	0·06	...	...	0·30	0·27	...	...	...	17	19·9	7·98	12·58	1·51	78·35	86·84	Rangamati ...	Chittagong Hill Tracts.	
...	...	...	...	1·50	...	...	...	...	...	8	20·3	10·70	12·29	2·50	80·65	78·15	Ruma.		

Table of Rainfall recorded at Stations in Bengal in September 1890—*continued.*

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
EAST BENGAL—*concld.*	Backergunge...	Patuakhally ...	...	...	0·12	...	...	...	0·25	...	...	...	1·63	...	...	...	0·48	0·15	...	1·00	0·20	...
		Perozepore ...	...	...	...	...	...	...	...	...	0·28	0·17	0·80	0·16	...	...	0·42	0·80	0·13	...	0·08	...
		Burrisal ...	...	0·81	...	0·03	...	...	...	0·27	...	...	0·17	...	...	...	0·82	0·54	0·03	0·70	...	...
		Bhola ...	...	...	...	...	...	...	0·13	0·24	0·29	...	...	...	...	0·15	0·65	0·50	...	...	...	...
		Gournaddi ...	0·15	...	...	...	...	...	...	0·12	...	...	...	...	...	...	0·40	...	...	0·05	...	0·32
		Bauphal ...	...	...	0·29	0·57	...	...	0·48	...	...	0·05	...	...	...	0·45	0·60	0·53	...	1·45	...	...
	Noakholly ...	Noakholly ...	...	0·12	0·11	0·62	0·02	...	3·09	0·03	0·02	...	...	0·15	...	0·15	0·87	...	...	0·58	0·05	0·02
		Fenny ...	...	0·15	...	0·92	...	...	3·40	0·10	...	0·80	...	0·52	0·17	0·54	0·10	...	...	0·36	...	1·50
		Harishpore ...	...	4·90	3·20	2·20	...	0·20	1·90	0·90	1·10	1·75	0·15	0·50	...	0·90	0·25	...	...	0·35	0·10	0·50
		Ramganj ...	1·50	...	...	...	...	...	...	...	...	...	0·90	...	...	0·10	...	...	...	...	...	...
	Furreedpore...	Madaripore ...	0·20	...	...	...	...	...	...	0·27	...	...	...	...	...	...	...	...	...	0·18	...	...
		Furreedpore...	...	...	...	...	...	...	...	...	0·25	0·02	...	...	0·15	1·02	0·22	...	0·03	...	...	0·70
		Goalundo ...	...	...	...	...	...	...	...	...	...	...	0·61	...	...	1·11	1·24	0·21	...	...	...	...
	Dacca ...	Munshigunge ...	1·20	...	...	...	...	...	...	0·07	...	...	...	...	...	0·60	0·10	0·11	...	...	...	...
		Dacca ...	0·16	...	...	...	...	...	...	...	...	0·04	...	0·35	...	...	0·26	0·50	...	...	0·32	...
		Narainganj ...	...	...	...	0·29	...	...	0·04	...	...	0·11	...	...	0·07	0·16	0·24	0·36	...	...	...	...
		Manickgunge ...	...	...	...	...	...	...	...	...	...	0·26	0·36	...	0·04	1·29	1·77	0·16	...	...	...	...
		Joydebpore ...	0·05	0·02	...	...	...	0·06	1·30	1·40	...	0·40	0·35	...	...	0·34	1·03	0·01	...	...	...	0·10
	Hill Tipperah	Agartola ...	0·29	...	...	...	...	0·10	...	...	...	...	1·82	...	1·55	...	0·42	0·28	0·52	...	0·40	0·08
	Tipperah ...	Comilla ...	0·19	...	...	0·03	...	...	0·10	...	...	...	0·85	...	...	0·80	0·17	...	...	0·09	...	0·61
		Chandpore ...	...	...	...	...	...	...	...	0·30	...	...	0·20	...	...	1·10	...	0·75	...	...	...	...
		Brahmunberia	0·60	...	...	...	...	...	...	...	0·60	...	0·34	...	...	0·05	1·90	0·03	...	...	...	...
		Ramchandrapore.	0·07	0·04	...	...	...	...	...	...	...	...	0·78	0·08	0·12	2·05	0·26	...	0·08	0·18	0·06	0·14
		Nasirnagar...	...	...	...	...	...	...	...	...	...	...	0·25	...	...	...	1·20	...	...	...	0·50	0·40
		Daudkandi ...	0·75	...	...	...	...	...	...	...	...	...	...	...	0·20	0·20	...	...	...	...	...	0·50
		Kasba ...	...	...	...	...	...	...	...	...	...	0·07	...	...	0·05	...	...	...	...	...	...	...
		Laksham ...	0·73	...	...	...	...	...	...	...	...	...	...	1·25	...	...	...	...	...	...	...	...
	Mymensingh .	Kishoregunge	0·70	...	0·43	...	0·07	0·43	...	0·35	...	...	0·54	0·34	...	...	3·05	...	...	...	0·03	0·06
		Atia (*Tangail*)	...	...	...	...	...	...	...	...	0·43	...	...	0·15	...	0·65	...	...	...	...	...	...
		Mymensingh	0·02	1·02	0·28	0·09	0·47	...	0·03	0·11	...	...	0·10	0·02	3·74	0·02	0·03	0·39	...	...	...	0·40
		Jamalpore ...	1·28	0·99	...	...	...	...	...	0·13	...	...	...	0·19	...	...	0·12	0·09	...	...	0·75	0·99
		Netrokona ...	0·84	2·05	...	...	0·19	0·15	0·37	...	...	0·69	1·31	...	0·17	...	0·48	0·56	...	...	...	...
		Subornakhally	...	2·02	[illegible]	...	0·06	...	...	0·03	0·65	...	1·10	...	...	...	0·25	...	...	...	...	1·40
		Durgapore ...	...	0·85	...	0·50	...	0·70	...	...	...	2·10	1·35	0·23	...	0·30	...	1·50	...	...	0·76	1·81
		Sherpore Town	0·57	1·29	...	...	...	0·05	...	...	...	0·80	0·23	...	0·41	...	...	...	...	...	0·22	0·69
		Dewanganj ...	...	...	...	...	...	...	...	...	...	...	0·47	...	...	...	...	...	...	...	0·50	...
NORTH BENGAL.	Pubna ...	Pubna ...	0·13	...	...	...	...	...	...	...	0·14	...	...	...	...	0·74	0·12	0·33	...	...	...	...
		Serajgunge ...	...	2·66	...	...	0·23	...	0·25	0·05	0·56	0·67	0·58	...	0·37	...	0·08	0·03	...	...	...	0·13
	Bogra ...	Sherpore ...	...	2·15	...	...	0·06	...	1·27	...	0·42	0·49	2·60	...	0·11	0·15	0·23	...	...	...	...	...
		Nowkhilla ...	0·44	2·43	...	...	0·32	...	...	...	0·14	0·57	0·70	...	0·39	...	...	...	...	...	...	0·03
		Bogra ...	0·27	1·25	0·04	...	...	...	0·08	0·65	0·12	0·68	...	0·16	1·40	...	0·04	...	...	...	...	...
		Panchbibi ...	0·45	...	...	...	0·13	...	...	1·09	...	0·71	...	0·22	...	...	0·26	0·23	...	...	...	...
	Rajshahye ...	Beauleah ...	...	0·98	0·17	0·94	...	...	...	...	0·24	...	0·22	...	...	...	0·19	0·14	...	...	...	...
		Nattore ...	...	0·70	...	...	...	...	...	...	2·10	0·16	0·15	...	0·66	...	0·36	0·65	...	...	...	...
		Naogaon ...	0·35	0·36	...	...	...	...	...	0·03	...	0·10	0·06	0·10	...	...	0·88	0·18	...	...	...	...
		Lalpore ...	...	...	1·11	...	...	0·95	...	...	0·37	0·16	...	...	...	...	0·33	...	...	...	...	...
		Manda ...	0·20	...	...	...	0·20	...	0·30	...	0·10	...	...	...	...	...	0·10	...	...	...	...	...
	Maldah ...	Maldah ...	...	...	...	...	...	...	...	0·07	0·08	1·52	0·64	...	...	...	0·30	0·22	...	...	...	...
		Chanchal ...	...	...	...	...	0·04	...	...	0·38	...	2·00	0·47	...	...	...	0·22	0·56	...	...	...	...
		Gajol ...	...	...	...	...	...	...	...	...	...	3·00	0·20	...	...	...	1·35	0·18	...	...	...	...
		Sibganj ...	...	...	...	...	...	...	...	0·04	...	0·48	...	...	...	...	0·25	...	...	...	...	...
	Dinagepore ...	Mohadebpore ...	...	...	...	...	...	...	...	...	...	...	...	...	0·18	0·29	0·31	...	...	...	0·34	...
		Churamon ...	...	...	...	...	...	...	...	...	0·33	3·72	0·12	...	...	0·07	1·02	...	...	...	...	...
		Raigunge ...	...	...	...	...	0·25	...	...	...	...	2·10	...	...	...	...	0·25	0·25	...	...	...	...
		Dinagepore ...	...	0·36	...	...	0·45	0·03	...	...	...	1·13	0·15	0·80	...	...	0·23	0·12	...	...	0·05	...
		Baloorghat ...	...	...	...	...	...	0·02	...	...	...	1·76	...	1·21	...	1·16	0·09	0·02	...	...	...	...
		Thakurgaon...	...	0·36	...	0·24	1·27	1·30	...	...	0·75	0·71	...	2·21	...	...	1·45	0·11	...	...	...	...
	Rungpore ...	Bhawanigunge (*Gyabanda*).	1·30	0·22	0·52	...	0·52	...	...	...	...	0·20	0·23	0·41	...	...	...	0·20	...	...	...	0·12
		Rungpore ...	0·02	0·32	0·14	0·31	1·95	0·01	...	...	0·10	0·52	0·13	0·46	...	...	1·87	0·04	...	...	...	0·59
		Kurigram ...	0·09	0·19	0·21	3·50	2·60	...	0·13	...	1·75	0·63	...	1·26	...	...	0·13	...	...	...	...	1·51
		Bagdogra (*Nilphamari*).	0·71	0·33	...	0·68	2·25	0·15	...	2·01	0·04	0·87	0·08	0·30	...	0·12	0·25	...	...	...	...	0·75
		Ulipore ...	0·66	...	...	0·94	1·12	0·10	...	...	...	1·25	...	0·47	...	...	0·38	...	...	...	...	...
	Julpigoree ...	Julpigoree ...	0·81	1·34	2·41	0·67	0·24	0·01	0·06	...	...	3·94	0·32	1·58	1·80	...	...	0·13	...	...	0·85	2·49
		Alipore Doar	2·41	8·91	3·00	1·85	0·56	...	...	...	...	2·31	...	0·44	...	...	...	0·23	...	...	2·40	4·62
		Falacotta ...	2·65	4·78	3·15	0·43	...	...	0·51	...	...	1·04	...	0·57	...	...	...	0·58	...	...	2·35	3·21
		Debiganj ...	0·53	0·50	0·12	0·84	0·21	...	0·12	0·34	1·56	0·75	...	1·12	...	0·73	0·13	0·55	...	...	...	10·24
		Bhogotpore (*Nagrakatta*).	3·01	2·41	2·88	0·75	...	0·38	0·52	...	0·07	3·66	1·08	3·25	...	...	0·63	0·31	...	...	11·97	2·10
	Cooch Behar...	Dinhatta ...	0·76	0·66	1·71	7·68	0·81	1·53	...	...	0·69	1·02	1·11	0·97	0·03	...	0·12	0·05	...	...	0·18	3·02
		Cooch Behar...	5·20	2·69	1·66	1·80	1·60	0·10	...	...	2·34	2·04	1·36	0·95	0·20	...	0·88	...	...	...	0·86	3·27
		Mekligunge...	2·66	0·52	0·55	0·38	0·05	...	0·64	...	...	2·07	0·75	0·58	...	...	...	0·79	...	...	...	4·75
		Matabhanga...	3·20	1·62	0·55	1·09	0·13	0·76	0·47	0·68	...	1·65	1·32	3·05	...	0·06	0·08	0·10	...	...	0·33	3·30
	Darjeeling Hill	Buxa ...	1·77	3·61	2·38	3·34	0·05	1·26	0·34	0·02	0·90	1·27	1·00	1·08	0·01	0·48	0·53	0·07	...	...	4·01	1·15
		Siliguri ...	1·38	0·88	5·37	1·04	0·05	...	...	...	...	6·99	0·10	0·86	0·04	0·04	2·08	0·03	...	...	1·32	2·34
		Darjeeling ...	0·34	0·06	0·74	0·01	0·38	0·65	0·74	0·01	0·13	0·78	0·28	0·15	1·35	0·05	0·04	0·36	...	...	0·05	0·18
		Kalimpong ...	2·05	...	0·88	0·06	0·80	0·04	0·11	...	0·60	0·06	0·28	0·06	0·08	...	0·08	0·57	...	...	0·72	2·52
		Kurseong ...	0·14	0·97	1·14	0·14	0·44	0·57	1·46	0·98	1·70	1·70	0·20	0·53	0·14	0·12	1·12	0·82	...	...	0·14	0·60
NORTH BEHAR	Purneah ...	Kissengunge ...	...	0·36	...	...	0·54	1·17	...	[illegible]	...	0·73	...	...	0·28	...	0·65	...	...	...	...	...
		Arrareah ...	...	0·30	...	...	1·59	0·43	...	...	0·26	2·66	...	...	...	...	...	1·27	...	...	...	...
		Purneah ...	...	...	...	...	0·03	0·29	...	...	0·45	10·32	...	...	...	...	0·90	4·04	...	...	...	...
		Gondwara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balarampore	...	...	...	...	...	...	...	0·15	...	2·80	...	...	...	0·08	0·73	...	...	...	...	...
		Matiari ...	1·40	...	...	2·02	...	...	...	...	...	4·40	...	0·40	...	...	...	...	...	0·20	0·20	4·10
		Kaliaganj ...	0·43	2·40	0·64	0·80	0·21	0·38	0·91	1·10	0·41	4·00	0·04	1·92	1·28	...	...	0·30	...	...	...	1·90
	North Bhagulpore.	Maddapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Soopool ...	...	...	...	...	...	...	...	...	0·25	0·07	...	...	...	...	...	0·43	...	...	...	...
		Protabganj ...	0·28	...	...	...	0·70	...	...	...	...	0·72	...	...	...	...	...	...	...	...	...	[illegible]

22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th Sept. 1890.	Average rainfall from 1st January up to 30th September.	District.	Station.	Meteorological division.
0·60	0·50	2·50	0·25	0·35	0·22	...	...	...	13	16·9	8·25	12·85	2·50	74·12	89·09	Patuakhally	Backergunge.	EAST BENGAL—*concld.*
0·22	0·18	1·12	0·45	0·10	2·62	0·19	...	...	15	15·0	7·17	11·15	2·62	60·60	71·75	Perozepore.		
0·19	1·60	0·75	...	0·92	0·60	...	...	...	13	20·2	7·43	11·44	1·60	65·17	73·16	Burrisal.		
0·58	0·57	0·90	...	0·20	0·25	0·05	...	...	12	19·4	4·51	11·81	0·90	60·72	83·87	Bhola.		
...	2·65	0·56	...	0·25	...	...	...	...	8	?	4·50	?	2·65	46·57	?	*Gournaddi.*		
...	2·00	2·40	...	...	...	...	...	...	10	?	8·62	?	2·40	68·63	?	*Bauphal.*		
...	1·24	0·58	...	[illegible]	1·55	...	...	...	17	19·9	12·93	16·32	3·73	94·94	102·58	Noakholly	Noakholly.	
...	0·25	...	...	...	0·35	...	...	...	13	17·4	9·16	16·01	3·40	107·08	111·71	Fenny.		
...	1·75	0·30	...	0·35	...	...	...	...	18	?	21·30	?	4·90	166·52	?	*Harishpore.*		
...	0·40	0·30	...	...	0·65	...	0·12	...	7	?	3·97	?	1·50	69·45	?	*Ramganj.*		
0·50	...	...	0·32	0·38	0·23	...	...	...	7	13·7	2·08	8·30	0·50	43·12	63·03	Madaripore	Furreedpore.	
0·25	0·06	0·12	0·75	0·05	...	0·35	...	...	14	14·6	4·04	9·39	1·02	51·63	64·03	Furreedpore.		
...	0·59	0·31	0·51	0·59	0·06	...	0·94	...	10	13·1	6·17	8·11	1·24	50·07	57·92	Goalundo.		
...	0·60	...	...	...	0·25	...	...	...	8	14·7	3·43	12·20	1·20	63·00	78·91	Munshigunge.	Dacca.	
...	0·21	...	...	...	0·14	...	...	...	8	14·7	1·08	9·05	0·50	65·15	67·08	Dacca.		
...	0·54	...	...	...	0·18	...	...	...	9	15·1	1·99	9·80	0·54	67·64	69·31	Narainganj.		
...	1·35	0·45	...	0·22	0·29	0·15	0·53	...	12	13·8	6·87	7·88	1·77	62·56	57·53	Manickgunge.		
0·12	0·28	0·21	...	...	0·58	...	...	0·37	17	?	8·02	?	1·40	72·98	?	*Joydebpore.*		
...	1·86	0·45	...	0·10	0·45	...	...	...	13	15·8	8·32	10·15	1·86	72·24	72·85	Agartola ...	Hill Tipperah.	
0·07	0·96	...	0·70	...	0·22	0·05	...	...	13	17·8	4·84	11·43	0·96	66·69	85·90	Comilla	Tipperah.	
0·20	0·30	0·87	...	0·20	0·60	...	...	...	9	16·4	4·52	11·80	1·10	62·19	80·85	Chandpore.		
0·60	...	...	...	...	0·80	...	...	...	8	15·0	4·92	11·61	1·90	63·65	74·10	Brahmunberia.		
1·06	0·74	...	...	...	0·21	...	...	...	14	?	5·87	?	2·05	77·52	?	*Ramchandrapore.*		
...	...	...	...	...	0·50	...	...	...	5	?	2·85	?	1·20	62·61	?	*Nasirnagar.*		
...	0·75	...	0·26	...	0·15	...	...	...	7	?	2·90	?	0·75	30·65	?	*Daudkandi.*		
0·50	...	...	...	...	...	...	...	...	3	?	0·62	?	0·50	60·38	?	*Kasba.*		
...	...	...	...	...	1·65	...	...	...	3	?	3·63	?	1·65	77·38	?	*Laksham.*		
0·05	0·90	...	...	...	0·43	...	0·60	...	14	16·4	7·98	12·24	3·05	75·60	77·44	Kishoregunge.	Mymensingh.	
...	...	...	...	...	1·11	0·18	2·35	...	6	11·3	4·87	9·47	2·35	58·08	68·79	Atia (*Tangail*).		
...	...	...	...	...	0·54	0·35	2·00	...	18	18·7	9·86	14·03	3·74	82·69	86·46	Mymensingh.		
0·17	...	...	...	...	0·54	3·92	5·10	...	11	15·6	14·10	13·70	5·10	82·51	70·46	Jamalpore.		
1·10	0·22	0·48	...	...	1·10	1·00	0·30	...	15	17·4	10·60	13·68	2·05	97·48	87·93	Netrokona.		
...	...	...	...	...	...	2·94	6·55	...	12	?	16·80	?	6·55	60·71	?	*Subornakhally.*		
...	...	...	...	...	...	2·35	...	...	11	?	12·45	?	2·35	121·42	?	*Durgapore.*		
0·37	...	...	...	...	1·08	1·81	4·94	...	13	?	12·58	?	4·94	73·52	?	*Sherpore Town*		
...	...	...	...	0·25	2·42	6·30	...	...	5	?	9·91	?	6·30	70·82	?	*Dewanganj.*		
1·04	0·68	0·46	1·54	0·14	0·21	0·79	2·51	0·02	14	15·5	8·85	11·06	2·51	56·68	59·19	Pubna	Pubna ...	NORTH BENGAL.
...	0·79	...	...	...	0·07	2·82	7·14	...	15	12·9	15·93	9·48	7·14	67·07	56·15	Serajgunge.		
...	0·27	...	0·27	...	0·48	3·10	5·90	0·02	16	12·2	17·50	9·94	5·90	71·19	59·30	Sherpore	Bogra.	
...	0·12	...	...	0·12	0·34	1·33	4·57	...	13	14·7	11·50	9·42	4·57	77·24	56·53	Nowkhilla.		
0·38	0·03	...	0·03	...	0·82	3·55	8·94	...	16	14·6	18·44	11·76	8·94	72·62	69·28	Bogra.		
0·28	0·05	...	...	...	8·50	3·50	2·34	...	13	11·3	18·46	10·41	4·50	75·47	56·26	Panchbibi.		
0·88	0·46	0·01	0·31	...	2·26	1·85	2·17	...	14	15·7	10·82	10·85	2·26	64·61	53·32	Beauleah	Rajshahye.	
...	1·08	1·80	...	0·03	2·38	5·70	5·05	...	13	12·3	20·82	11·73	5·70	86·08	57·61	Nattore.		
0·03	0·43	...	...	...	5·00	5·08	...	...	12	13·3	18·85	12·83	5·08	60·30	54·84	*Naogaon.*		
0·21	0·52	0·42	0·02	0·54	...	4·00	2·15	...	13	?	11·28	?	4·00	49·76	?	*Lalpore.*		
...	0·10	...	...	1·70	2·00	1·85	...	...	9	?	6·55	?	2·00	37·26	?	*Manda.*		
...	1·35	0·45	0·04	...	3·45	5·05	1·25	0·01	13	14·6	14·43	10·78	5·05	59·99	49·06	Maldah	Maldah.	
0·20	...	...	...	...	3·00	4·60	0·05	...	10	15·0	11·47	10·25	4·60	54·47	55·33	Chanchal.		
0·90	1·42	...	...	...	6·35	0·84	0·15	...	9	?	14·39	?	6·35	72·13	?	*Gajol.*		
0·11	1·30	0·05	0·02	...	1·26	2·40	1·82	0·05	11	?	7·78	?	2·40	51·41	?	*Sibganj.*		
0·30	...	...	...	...	7·80	8·80	...	...	7	12·5	18·02	11·59	8·80	63·26	56·86	Mohadebpore...	Dinagepore.	
0·84	...	...	...	...	4·12	6·22	...	...	8	13·6	16·44	12·91	6·22	73·70	55·56	Churamon.		
0·70	...	...	...	...	5·95	6·25	...	...	7	13·0	15·75	10·35	6·25	81·31	58·53	Raigunge.		
0·45	0·04	...	...	...	2·93	6·44	0·42	...	15	15·8	14·00	12·62	6·44	79·23	69·50	Dinagepore.		
1·64	...	...	...	...	7·62	6·85	1·00	...	10	13·3	23·87	13·25	7·62	74·61	54·12	Baloorghat		
...	...	...	...	...	1·57	7·57	0·11	...	13	?	18·42	?	7·57	99·05	?	*Thakurgaon.*		
1·65	...	...	...	...	0·45	7·05	27·00	...	14	11·2	42·12	11·67	27·00	115·00	63·71	Bhawanigunge (*Gyabanda*).	Rungpore.	
0·15	0·13	...	...	...	1·92	10·40	2·86	...	19	16·2	23·56	13·06	10·40	85·49	78·58	Rungpore.		
0·03	0·10	...	...	...	0·53	5·45	0·76	...	17	12·5	19·07	12·71	5·45	87·54	82·07	Kurigram.		
...	0·15	...	...	...	2·75	8·25	0·21	...	18	14·6	21·85	14·83	8·25	101·04	86·41	Bagdogra. (*Nilphamari.*)		
...	...	...	...	...	0·95	10·26	5·80	...	11	?	22·55	?	10·26	93·16	?	*Ulipore.*		
0·05	...	...	...	...	0·27	3·79	0·06	...	19	17·2	21·27	23·59	3·94	148·51	122·85	Julpigoree ...	Julpigoree.	
...	...	...	...	...	0·39	2·75	...	...	13	?	30·07	?	8·91	185·61	?	*Alipore Doar.*		
...	...	...	...	...	...	3·00	...	...	12	?	21·70	?	4·78	140·39	?	*Falacotta.*		
0·50	...	...	...	...	1·50	5·65	0·07	...	19	?	19·78	?	5·65	108·62	?	*Debiganj.*		
1·33	...	...	...	...	0·00	2·30	0·42	...	19	?	37·10	?	11·97	177·81	?	*Bhogotpore* (*Nagrakatta.*)		
...	...	...	...	...	0·87	5·21	0·42	...	19	16·1	26·37	21·20	7·68	123·42	105·86	Dinhatta	Cooch Behar.	
...	...	...	...	...	0·57	3·60	...	...	17	16·8	29·86	21·46	5·20	170·36	124·14	Cooch Behar...		
0·40	...	...	...	...	0·62	4·03	0·06	...	16	15·7	19·90	22·89	4·75	145·63	113·40	Mekligunge.		
0·21	...	...	...	...	0·42	3·55	0·59	...	21	17·1	26·01	22·74	3·55	171·28	118·92	Matabhanga.		
1·21	...	...	...	...	0·05	1·63	0·56	...	23	21·0	27·54	31·85	4·01	202·90	202·24	Buxa ...	Darjeeling.	
0·28	...	...	...	...	0·76	3·00	0·28	...	19	16·7	30·62	16·89	6·99	172·91	113·70	Siliguri.		
0·03	0·04	...	...	...	0·18	6·67	1·95	...	24	22·1	16·09	17·42	6·67	147·24	114·08	Darjeeling.		
0·06	...	...	...	...	0·10	4·22	1·28	...	20	18·1	15·25	11·07	4·22	116·78	89·40	Kalimpong.		
0·53	0·10	...	...	...	0·58	5·75	2·35	0·04	26	?	23·15	?	5·75	187·45	?	Kurseong.		
...	...	...	...	...	1·95	5·10	0·65	...	10	14·1	16·21	13·79	5·10	97·29	71·39	Kissengunge ...	Purneah ...	NORTH BEHAR.
0·33	...	...	...	...	2·31	2·60	0·50	...	11	12·[illegible]	16·63	13·28	4·46	79·88	64·88	Arrareah.		
0·11	...	...	...	...	2·50	4·67	0·10	...	11	14·5	20·90	13·47	4·67	78·49	60·17	Purneah.		
...	...	...	...	1·30	...	...	...	...		?		?			?	*Gondwara.*		
...	...	...	...	...	6·35	3·15	...	...	7	?	14·46	?	6·35	90·08	?	*Balarampore*		
...	...	...	...	...	...	...	...	...		?		?			?	*Matiari.*		
1·00	...	...	...	...	1·00	3·44	...	...	19	?	24·69	?	4·00	117·85	?	*Kaliaganj.*		
...	...	...	...	...	0·92	5·25	...	...	8	11·2	7·37	10·24	5·25	59·74	49·25	Maddapore	North Bhagulpore.	
...	...	...	...	...	0·33	5·09	0·08	...	7	13·4	9·85	9·40	5·09	63·60	47·71	Soopool.		
...	...	...	...	...	3·35	...	...	...	5	?	8·00	?	3·35	48·56	?	*Protabganj.*		

Table of Rainfall recorded at Statio

gal for the month of September 1890—*concluded.*

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
North Behar —*concld.*	Durbhunga ...	Tajpore ...	...	...	...	...	...	...	...	...	0·96	...	...	...	...	0·06	...	0·70	0·48	...	...
		Durbhunga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·70	0·04	0·05	0·14	...	...
		Madhubani ...	...	0·30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bahera ...	...	...	...	...	...	...	...	...	...	...	...	0·40	...	...	0·15	...	...	...	...
		Roshera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·19	0·60	0·05	...	...	...
	Mozufferpore	Sitamarhi ...	0·28	...	...	...	...	...	...	...	0·08	...	...	...	...	...	·47	...	...	...	...
		Mozufferpore ...	...	...	...	...	...	...	...	...	0·22	...	...	...	...	...	0·06	0·14	0·42	...	...
		Hajipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·35	0·15	1·24	1·14	...	...
		Parsa ...	...	...	...	...	...	...	...	...	0·34	...	...	...	...	...	...	0·50	1·20	...	...
		Mahua ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·35	...	...	...
		Sinhar ...	...	...	...	...	...	...	0·20	...	...	...	...	0·27	...	0·47	0·47	0·35	0·15	...	...
		Pupri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·05	0·35	0·40	...	...
	Chumparun ...	Motihari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·26	0·19	0·43	...	...
		Bettiah ...	0·45	...	...	...	...	...	...	...	...	...	0·40	...	...	1·08	0·45	1·20	0·68	...	...
		Bagaha ...	...	...	...	...	...	...	...	...	...	...	1·70	...	...	1·02	5·52	0·78	0·42	...	...
		Burhurwa ...	...	0·05	...	...	...	...	...	...	...	...	...	...	...	1·05	0·00	1·13	1·30	...	...
	Sarun ...	Gopalgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	0·12	0·96	0·81	0·18	...	...	...
		Sewan ...	...	...	...	...	...	...	...	...	...	...	...	...	4·41	0·41	0·71	0·35	...	...	...
		Chupra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·39	0·12	...	...	...
South Behar	Shahabad ...	Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·29	...	1·70	...	...	...
		Dehree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·26	0·43	0·07	...	...
		Bhuboosh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·10	0·05	2·20	...	...	...
		Sasseram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·35	0·02	0·65	...	...	...
		Arrah ...	0·04	...	...	...	...	...	...	...	...	1·80	...	...	...	0·36	...	1·10	0·05	...	...
		Mohaniah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30	0·90	...	...	...	...
	Gya ...	Aurungabad...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·79	0·58	0·15	...	...
		Gya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·53	...	...
		Nowadah ...	...	...	...	...	...	...	...	...	...	...	0·21	...	...	...	...	0·30	0·14	...	...
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	0·01	...	...	0·39	0·27	...	...
		Arwal ...	...	...	...	...	0·10	...	...	...	...	...	...	0·10	...	...	...	...	...	...	0·20
		Daudnagar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30	0·40	0·20	...	...	...
		Sheerghati ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·40	0·45	...	...
		Rajauli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·33	0·15	...	...
		Pakri Baraswan.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30	...	...	...
	Patna ...	Patna ...	...	...	...	...	...	...	...	...	...	...	0·16	...	...	0·02	...	0·05	0·52	...	...
		Dinapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·25	2·95	...	...	...
		Behar ...	...	...	...	...	...	...	...	...	...	0·15	0·95	...	...	...	...	0·93	0·22	...	...
		Barrh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·40	...	...	...
		Bickram ...	...	...	...	...	...	...	...	...	...	...	...	...	0·11	...	...	0·84	0·09	...	...
		Hilsa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·67	...	0·14	...
	Monghyr ...	Begoosarai ...	...	...	...	...	...	...	...	...	0·45	0·17	...	...	...	...	...	0·40	0·39	...	...
		Monghyr ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·07	0·83	...	...
		Jamui ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·30	0·56	0·32	...	...
		Gogri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·45	0·13	...	...
		Sheikpura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0 18	...	...
	South Bhagulpore.	Bhagulpore ...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	...	0·65	0·06	...	...	...
		Banka ...	...	...	...	...	...	...	...	...	...	0·06	0·06	...	...	...	0·66	0·42	...	...	...
		Kolgong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·25	0·90	...	...	...	0·11
		Bangaon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Southal Pergunnahs.	Rajmehal ...	...	...	...	...	...	...	...	...	2·41	...	...	...	...	...	...	0·16	0·80	...	...
		Godda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·78	0·11	...	...	...
		Pakour ...	...	0·10	...	...	...	...	...	...	...	0·39	0·69	...	...	...	0·82	0·11	...	...	...
		Nya Doomka ...	...	...	...	...	...	...	...	...	...	0·76	1·23	...	...	...	0 20	0·05	0·13	...	...
		Dooshur ...	...	...	...	...	...	...	...	...	...	0·67	...	...	...	...	...	0·36	0·16	...	...
		Jamtara ...	...	...	0·08	...	...	0·04	...	...	...	0·40	0·29	...	...	...	...	0·15	0·12	...	...
		Mohagama ...	...	...	...	...	...	...	0·05	...	...	...	...	...	...	...	...	0·15	...	...	...
		Nanihat ...	...	...	...	...	...	...	...	...	0·06	...	...	0·02	...	...	...	0·12	...	...	...
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	...	...	...	...	...	...	...	...	38	0·67	0·36	...	...	0·15	0·16	0·27	...	...	...
		Hazaribagh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·31	0·70	0·03	...
		Sentagurah ...	...	...	...	...	...	...	...	...	...	0·46	...	...	...	...	1·00	0·75	...	...	...
		Mahudi Hills ...	...	...	...	...	...	...	0·09	...	...	...	...	...	...	...	2·38	0·18	0·24	...	...
		Jhoomrah Hills ...	...	...	...	...	...	...	...	...	0·20	...	...	...	...	...	1·80	1·20	0·22	...	...
		Barhi ...	...	...	...	...	...	...	...	...	...	0·38	...	...	...	...	...	0·60	0·25	...	...
		Chatra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·75	0·50	0·42	...	...
		Karagdeha ...	...	...	...	...	...	...	...	...	...	...	0·12	...	...	0·07	0·33	0·10	0·33	...	...
		Ramghar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·80	...	...
	Lohardugga...	Lohardugga ...	...	...	...	...	...	...	...	...	...	0·33	0·62	...	...	0·38	0·50	0·35	...	...	...
		Ranchi ...	...	...	...	...	...	0·30	...	...	...	...	0·55	...	0·12	0·07	2·05	0·23	0·05	...	...
		Palamow ...	...	0·27	...	...	...	...	...	...	0·40	...	...	...	...	0·30	0·17	0·05	...	...	...
		Sili ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·80	1·80	...	...	...
		Balumat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·02	0·70	0·02	...	...	...
		Hosenabad...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garwah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·62	0·40	...	...	...	...
	Singbhoom ...	Chyebassa ...	...	0·03	0·84	...	0·19	...	...	...	...	...	...	...	0·05	1·06	1·04	0·29	0·07	...	...
		Chakradharpore.	0·30	0·05	...	0·10	0·13	0·20	...	...	0·03	0·05	0·21	0·05	0·10	0·20	0·11	0·16	0·15	...	0·10
		Ghatsila ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baharagura...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Manbhoom ...	Purulia ...	0·06	...	0·03	...	...	...	0·07	...	...	0·07	0·23	...	...	...	...	1·74	0·16	0·14	...
		Gobindpore ...	0·05	...	...	...	...	...	...	...	...	0·66	0·67	...	...	...	...	0·92	...	0·77	...
		Raghunathpore.	...	...	...	...	...	...	...	...	...	1·75	...	...	...	...	0·50	1·10	...	...	...
		Barrabhoom...	...	...	...	...	...	...	...	...	0·04	...	0·23	...	...	...	0·90	0·30	0·34	...	0·13
		Jhalda ...	...	...	0·72	...	...	...	0·09	...	...	...	...	...	...	...	0·25	0·71	0 19	...	...
		Chas ...	...	...	...	...	...	...	...	...	...	...	0·10	...	...	...	...	1·30	0·38	...	...

23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th September 1890.	Average rainfall from 1st January up to 30th September.	Station.	District.	Meteorological division.
...	0·02	...	0·03	0·54	1·24	4·26	0·22	...	9	10·4	8·45	8·00	4·26	51 98	42·10	Tajpore ...	Durbhunga ...	North Behar—*concld.*
0·30	...	...	...	0·03	0·77	3·02	0·09	...	9	11·1	5·10	9·33	3·02	57·48	44·88	Durbhunga.		
...	...	...	...	...	0·17	2·21	0·28	...	6	10·5	4·27	9·00	2 21	63 01	45·27	Madhubani.		
0·18	...	...	...	...	0·76	5·60	0 30	...	6	†	7·33	†	5·60	51·51	†	*Bahera.*		
0·05	...	...	0·97	1·95	2·00	0·36	...	...	9	†	7·83	†	2·00	59·04	†	*Roshera.*		
1·25	...	...	...	0·03	0·22	3·55	0·40	...	9	9·5	7·39	9·25	3·55	52·38	42·74	Sitamarhi	Mozufferpore	
0·32	...	...	0·08	1·42	2·43	0·72	...	...	10	11·0	5·06	8·25	2·43	55·31	40·96	Mozufferpore		
0·60	0 62	...	0·04	0·09	1·54	2·30	0·32	...	11	11·4	8·29	7·10	2·29	48·81	40·20	Hajipore.		
.....	...	...	...	2·64	1·57	3·70	1·00	0 30	9	†	13·93	†	3·70	66·01	†	*Parsa.*		
...	...	...	...	1·20	1·60	0·17	...	...	8	†	5·09	†	1·60	45·75	†	*Mahua.*		
0·10	...	...	...	0·20	1·10	3·70	0·30	...	10	†	9·75	†	3·70	59·88	†	*Sinhar.*		
1·10	...	...	...	...	...	2·76	...	...	4	†	4·35	†	2·76	59·18	†	*Pupri.*		
0·89	...	...	...	...	0·74	4·13	0·26	...	8	9·3	10·06	8·69	4·13	60·93	44·47	Motihari ...	Chumparun.	
0·40	...	...	...	0·00	1·68	...	...	...	10	9·7	7·49	9·32	1·68	60·93	47·65	Bettiah.		
0·45	...	...	...	...	...	...	...	...	...	†	†	†	†	†	†	*Bagaha.*		
0·38	...	...	...	0·10	1·03	2·93	0·11	...	11	†	9·18	†	2·93	57·93	†	*Burhurwa.*		
...	...	...	...	0·45	2·43	1·09	...	...	8	9·8	7·39	7·86	2·43	51·39	41·76	Gopalgunge...	Sarun.	
0·56	...	0·10	0·15	2·20	1·40	0·45	...	...	11	11·8	11·01	8·83	4·41	59·46	41·59	Sewan.		
0·33	...	0·09	...	2·39	1·94	0·17	0 02	...	9	9·1	5·54	7·21	2·39	47 40	36·92	Chuprah.		
2·73	0·29	0·15	...	...	2·04	0·44	0·22	...	8	12·6	8 46	7·43	2·73	51·42	35·85	Buxar ...	Shahabad ...	South Behar.
1·05	0·31	0·10	...	0·19	2·33	0·43	0·09	...	10	12·1	5·26	7·37	2·33	43·16	38·84	Dehree.		
1·10	0·45	0 20	0 30	0·70	2·45	0·30	0·15	...	12	10·3	7·91	6·70	2·45	41·25	39·12	Bhuboosh.		
0·92	0·47	0·21	0·07	0·32	3·20	0 32	0·28	...	11	12·1	9·70	6·95	3·20	44·39	36·35	Sasseram.		
.....	1·02	...	0·20	0·27	2·10	1·15	0·19	0·03	12	13·2	8·92	8 35	2·10	63·90	41·66	Arrah.		
0·40	...	...	0·40	2·00	1·00	...	...	...	7	†	6·60	†	2 00	36·30	†	*Mohaniah.*		
0·25	0·18	0·41	...	0·30	2·16	0·27	0·04	...	10	9·9	5·03	7·15	2·16	59·34	40·92	Aurungabad ..	Gya.	
.....	...	0·08	0·16	0·02	2·98	2·09	0·18	...	7	12·4	6·02	7·15	2·98	60·94	38·92	Gya.		
.....	...	0·38	0·13	0·45	2·04	...	0·09	0·06	9	9·4	3·80	6·84	2·04	54·69	39·39	Nowadah.		
.....	0·21	...	...	0·04	2·68	0·72	0·15	0·10	9	8·6	4·57	5·72	2·68	53 39	38·13	Jehannbad.		
.....	0·40	0·30	...	...	2·10	2·40	...	...	7	†	6·60	†	3 10	50·34	†	*Arwal.*		
.....	0·30	1·30	...	0·30	1·00	1·00	...	...	8	†	4·70	†	1·30	29·65	†	*Daudnagar.*		
.....	0·80	...	0·30	0·20	1·05	1·11	0·20	...	8	†	4·01	†	1·11	35·14	†	*Sheerghati.*		
0·13	...	0·15	...	0·15	0·30	1·40	...	0 90	8	†	3·48	†	1·40	44·82	†	*Rajauli.*		
.....	...	...	0·30	0·14	0·35	2·00	...	...	5	†	3·69	†	2·00	41·27	†	*Pakri Baraswan.*		
0·18	0·29	...	0·15	0·10	1·14	1·51	0·22	...	11	12·6	4·94	7·87	1·51	51·03	38·70	Patna ...	Patna.	
2·40	...	...	0·35	0·28	2·40	0·55	0·05	...	9	10·9	9·54	6·02	2·95	51·63	39·18	Dinapore.		
.....	0·23	...	0·08	0·55	0·90	3·00	0·10	0·07	11	12·0	7·98	6·38	3·00	46·16	40·83	Behar.		
.....	...	0·50	0·10	...	0·70	4·00	0·30	...	7	14·3	7·80	7·88	4·00	43·45	38·97	Barrh.		
.....	0·47	...	...	0·05	3·60	0·36	0·11	...	8	†	5·63	†	3·60	57·92	†	*Bickram.*		
.....	0·29	0·17	0·39	0·23	1·12	2 13	0·11	...	9	†	7·25	†	2·67	49·60	†	*Hilsa.*		
0·56	0·05	...	0·50	0·10	0·32	2·85	0·05	...	11	11·1	5·84	7·20	2·85	43·76	39·06	Begoosarai ...	Monghyr.	
0·16	1·80	...	0·24	0·03	0·24	2·02	0·08	0·03	10	12·8	6·80	5·44	2·02	54·17	41·64	Monghyr.		
1·40	...	0·13	0·16	0·19	0·70	1·37	0·13	0·09	10	10·4	4·95	7·20	1·40	58·18	42·45	Jamui.		
.....	0·87	...	...	...	0·80	3·88	0·57	...	7	†	7·59	†	3·88	74·55	†	*Gogri.*		
.....	...	...	0·30	0·25	1·30	2·10	...	...	5	†	4·13	†	2·10	45·79	†	*Sheikpura.*		
0·04	0·26	...	...	0·03	1·49	3·05	0·01	...	9	12·8	5·48	7·92	3·05	57·56	43·46	Bhagulpore ...	South Bhagulpore.	
0·02	...	0·19	0·10	0·02	0·38	1·96	0·07	0·06	12	12·7	3·50	8·03	1·96	42·10	42·95	Banka.		
0·42	0·51	...	0·90	...	1·40	2·70	0·50	...	10	†	7·89	†	2·70	54·19	†	*Kolgong.*		
														72·65	†	*Bangaon.*		
.....	0·46	...	0·10	...	3·27	4·75	0·62	...	6	11·3	10·61	11·86	4·75	50·17	52·37	Rajmehal ...	Southal Pergunnahs.	
.....	0·78	0·08	0·05	0·03	0·77	1·40	0·08	...	9	11·9	3·85	9·53	1·40	47·42	44·72	Godda.		
1·29	1·05	0·52	0·35	...	2·05	1·90	0·71	0·06	13	15·5	10·70	13·16	2·05	68·08	57·60	Pakour.		
0·07	0·04	0·29	0·17	0·29	0·59	0·94	0·45	0·10	14	17·7	6·80	10·37	1·23	63·50	53·25	Nya Doomka.		
0·07	0·34	0·47	0·48	0·24	1·11	1·99	0·38	0·18	12	14·9	5·35	8·54	1·11	46·07	48·24	Dooshur.		
0·06	0·14	1·76	0·73	0·09	0·73	2·28	0·32	0·44	15	12·3	5·95	7·83	1·76	57·60	46·23	Jamtara.		
.....	...	0·25	0·12	0·85	1·38	0·15	0·11	0·15	9	†	3·21	†	1·38	47·03	†	*Mohagama.*		
.....	0·14	0·84	...	1·07	0·71	0·41	1·11	...	9	†	4·48	†	1·11	29·08	†	*Nanihat.*		
.....	0·31	1·49	0·42	0·90	0·80	0·48	...	0·35	13	16 1	6·74	8·66	1·49	52·76	47·35	Pachamba ... (*Giridi*).	Hazaribagh ...	Chutia Nagpur.
1·10	0·97	0·48	0·37	0·29	1·50	0·74	0·02	0·35	12	17·8	7·76	7·83	1·50	49·23	45·96	Hazaribagh.		
1·37	0·39	0·33	0·29	0·35	1·45	0·13	0·14	0·37	12	16·6	7·20	8·04	1·45	39·54	45·80	Sentagurah.		
0 03	0·41	0·18	1·06	0·24	1·43	...	0·13	...	12	13·9	7·03		2·35			Mahudi Hills.		
1·90	0·90	0·40	0·50	0·60	1·20	...	0·50	0·60	12	14·7	10·00	10·62	1·90	55·70	58·48	Jhoomrah Hills		
.....	0·60	0·55	0·13	0·80	0·40	0·62	0·22	0·16	11	†	4·69	†	0·80	48·14	†	*Barhi.*		
.....	...	0·17	0·05	...	0·80	0·70	0·09	...	9	†	3·55	†	0·70	46·98	†	*Chatra.*		
.....	0·02	0·47	0·20	0·28	0·77	0·30	0·04	0·05	13	†	5·08	†	0·77	52·15	†	*Karagdeha.*		
... ...	1·90	..	0·90	...	1·62	0·47	...	2·90	6	†	9·05	†	2·90	48·96	†	*Ramghar.*		
.....	0·38	0·62	0·20	...	1·30	0·40	...	0·85	11	17·5	5·93	9·16	1·30	53·47	49·41	Lohardugga ...	Lohardugga.	
0·16	1·58	1·15	0·38	0·40	1·70	0·19	...	0·38	15	14·8	9·29	8·19	2·05	44·55	46·51	Ranchi.		
0·95	0·58	0·02	0·03	0·05	0·81	0·20	0·03	...	13	12·8	5·85	7·95	0·93	44·13	42·36	Palamow.		
1·40	2 61	...	0·79	0·60	...	...	...	...	6	†	7·80	†	2·60	38·50	†	*Sili.*		
1·50	0·13	0·02	...	1·13						†		†			†	*Balumat.*		2
1·30	3·74	...	...	0·74	1·25	3·76	...	...	5	†	9·84	†	3·76	42·14	†	*Hosenabad.*		1
0·19	...	...	0·21	0·96	0·46	...	...	...	7	†	5·80	†	2·62	38·96	†	*Garwah.*		6
0·21	0·43	0·02	0·68	0·04	1·35	...	0·07	0·30	17	16·6	7·18	8·38	1·25	34·49	51·45	Chyebassa	Singbhoom.	
0·20	0·30	0·23	0·12	0·10	0·10	...	0·05	0·08	25	†	3·47	†	0·30		†	*Chakradharpore.*		5
0·82	2·10	1·10	0·20	0·90	0·03	0·50	...	...	15	†	9·26	†	2·10	51·25	†	*Ghatsila.*		3
1·17	0·75	1·55	1·42	0·08	0·25	...	1·05	0·45	13	†	9·19	†	1·44	54·56	†	*Baharagura.*		2
0·15	1·54	0·32	0·23	0·06	0·35	0·02	0·13	...	16	16·1	5·59	7·80	1·74	43·64	46·79	Purulia ...	Manbhoom.	
0·75	0·74	0·59	0·15	0·80	0·36	0·17	0·09	...	15	15·3	6·30	7·22	0·93	36·10	43·04	Gobindpore.		
...	1·50	0·85	...	1·00	0·30	...	...	...	7	†	8·00	†	2·50	59·18	†	*Raghunathpore.*		
0 18	1·60	0·30	0·06	0·30	0·30	...	0·05	14	†	5·98	†	1·60	43·75	†	*Barrabhoom.*		18
1·52	2·38	1·90	0·19	0·18	0·51	0·06	0·12	...	13	†	8·63	†	2·38	57·28	†	*Jhalda.*		
0·05	1·50	0·70	0·14	1·00	0·38	...	...	...	9	†	5·40	†	1·50	40·60	†	*Chas.*		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF SEPTEMBER 1890.

THE most notable features in the weather conditions during September are:—

1. During a large part of the month lowest pressure was over the Bay, and at times a trough of relatively low pressure extended from the head of the Bay in a northerly direction over Bengal. Changes of pressure have seldom been large, and readings differed to any large extent from the normal only towards the end of the month.

2. The rainfall distribution was largely influenced by the almost permanent low-pressure area over the Bay, especially during the first half of the month, when very small amounts were received; the defect in North Bengal and Behar being about 2 inches for both the first and second weeks.

3. In ordinary years the western districts of Bengal derive part of their rain from the western current blowing across the Central Provinces, but this year, though steady westerly winds blew over almost the whole of Bengal for several days at the beginning of the month, these winds were so dry that only very scattered showers fell at that time.

4. While the dry westerly winds were blowing in the early part of the month, and even after the ordinary easterly circulation recommenced, clear skies were general and temperature several degrees above the normal, but after the disturbed conditions commenced during the last ten days, a very rapid fall commenced, and some unusually low temperatures were recorded, especially in Behar and North Bengal.

5. As stated above, pressure was generally low over the Bay, but between the 13th and 19th, and again from the 22nd, the differences of pressure increased, causing what may be called the depressions of the month, the former being very shallow and local in its influence, but the latter of greater importance, because of the heavy rain received over the whole of Bengal, which was under its influence from the 22nd till the end of the month.

From the 1st to the 5th lowest pressure was over North Bengal and North Behar, and a steady westerly current was blowing over almost the whole province as far east as the boundary of Assam, where the only showers at that time received in Bengal were probably caused by the meeting of this westerly current with that from the Assam valley. Day after day the stations in this corner reported rain, while elsewhere there was unusually dry, clear weather. On the 6th pressure was low over the Bay, and northerly winds were blowing in Orissa, but at inland stations light, variable breezes were general, or the westerly directions, which were gradually retreating, still obtained. Up till the 9th a trough of low pressure, extending from the centre of the Bay in a northerly direction, gradually drifted from east to west. During its passage variable winds prevailed, but afterwards the ordinary monsoon circulation became established, viz., south or south-west in Lower Bengal and east or south-east in the northern districts. From the 9th to the 13th the distribution of pressure was very uniform, and fine, clear weather prevailed in all districts, except North Bengal, where showers, sometimes heavy, were as general as earlier in the month.

Shallow depression from 13th to 19th.—On the 13th pressure began to fall in the north-west corner of the Bay, and a shallow depression formed, at first covering part of the Bay, Orissa, Chutia Nagpur, and the Central Provinces. After a further brisk fall of pressure it concentrated over Orissa on the 15th, where it practically remained till the 19th, when it filled up. On the 16th and 17th pressure rose to the north of the depression, and this rise forced it towards the south, more over the Circars, but this was the only motion observable while it existed. Rain commenced to fall in the central districts of Bengal on the 13th, and became more general till the 16th, after which it ceased in the north and east, though in South-West Bengal and Orissa showers fell till the 19th.

On the 19th and 20th fine weather generally prevailed, but on the 21st unsettled conditions again began, a depression developing rapidly off the Circars on the 22nd in consequence of the rapid general rise of pressure in the surrounding country, while there it either remained steady or fell.

Depression from 22nd to 30th.—On the 22nd, when the low pressure area first became clearly defined, lowest pressure was at Vizagapatam, just under 29·65 inches, and gradients were steeper than usual, especially towards the north-east, the difference between Vizagapatam and Sibsagar being a quarter of an inch. On the 23rd there was still further intensification, and gradients were again steeper over the head of the Bay, and in Lower Bengal, a clearly defined indraught towards the area of low pressure resulting. The centre was close to the coast between Gopalpur and Vizagapatam, and on the 24th it was well inland, moving in a north-westerly direction. Between the 25th and 26th the direction of motion was northerly, and after that it moved almost due east, covering part of Chutia Nagpur on the 27th, and almost entirely filling up on the 28th, when a widely diffused low pressure area extended from the north of Bengal as far as the Circars. The barometer continuing to rise rapidly in Bengal on the 29th, pressure was again lowest in the Circars and the adjacent part of the Bay, and the depression was in almost the same position as when it commenced to form a week before, with the difference that pressure was higher by two-tenths of an inch. On the 30th a widely diffused low pressure area covered the Bay, and the distribution was steadily becoming more uniform.

Between the 23rd and 26th rainfall in Bengal was almost entirely confined to the southern districts, and heavy rain fell daily in Orissa, but after the change of direction of motion on the 26th, winds became southerly in Orissa, South-West and East Bengal, and general rain fell in all districts, continuing very heavily in the northern districts on the two following days, and especially in North Bengal after the storm broke up. Local thunder storms occurred over the whole province, the most severe being in North Bengal and the northern parts of East Bengal, and these were in places accompanied by very heavy falls of rain. On the 30th conditions were becoming more settled, and only a few showers fell in Lower Bengal.

Pressure—During the first half of the month underwent small changes only, and the mean was very nearly normal. On the 16th a wave of high pressure, entering the province from the north-east and moving to the south-west, caused a rapid rise of pressure, first in North Bengal and afterwards in the southern districts, and forced the low pressure area from the Orissa coast southwards over the Circars, where it filled. The largest change was ·17 inch in Chutia Nagpur on the 17th. Pressure continued to rise rather rapidly, and up till the 26th there was a general excess, varying from ·075 inch at Gopalpur to ·05 inch in Assam, East and North Bengal and North Behar. After the depression commenced to move to the east from Central India, there was a rapid fall in the western districts, defect amounting to ·2 inch at Hazaribagh and Dehree on the 27th. A very rapid rise followed on the 28th in Chutia Nagpur and South Behar, and in the central districts on the 29th, after which a slow rise continued, the distribution becoming very uniform.

The means for the month are below the normal by about ·02 inch in the south of Orissa, and above by nearly ·03 inch in East Bengal, but elsewhere the difference from the normal is only a few thousandths of an inch.

Temperature—Was below the normal for a day or two at the beginning of the month, when a steady rise setting in, first in the western districts, a considerable excess soon accumulated, averaging 3° or more in Behar, Chutia Nagpur and South-West Bengal and more than 1° over the whole province till about the middle of the month, after which it was generally below the normal, defect being between 3° and 5° at nearly all stations on the 24th. Temperature fell very rapidly between the 27th and 29th in Behar and North Bengal. On the 27th defect was between 6° and 7° in North Behar, and by the following day this had increased to between 10° and 12° at the more western stations, and on the 29th in Behar and North Bengal. Some very low night temperatures were recorded during these days, the lowest being 64·8° in Chutia Nagpur, 65·6° in North Bengal, and 66·5° in Behar. After the filling up of the depression there was a rapid rise, and by the end of the week defect was replaced by excess of 3° in Lower Bengal and 1° in the northern districts.

Rainfall—As stated above, was very scattered during the first half of the month in all districts, except North Bengal, but the formation of the two depressions in the south-west corner of the Bay gave continuous heavy rain in Orissa and part of South-West Bengal, and as the latter and more important of the two ultimately broke up in the northern districts, very heavy rain fell there at the end of the month. The greater part of the province has received deficient rainfall, the whole of North Bengal and the northern parts of Behar and East Bengal, as well as a strip of country running north and south and including Orissa and the western half of South-West Bengal, being the area over which falls have been heavier than usual. The connection of this distribution with the depressions is sufficiently clear, the lower districts being affected during their formation, and the northern districts while the second was filling up. Over the large area including Chutia Nagpur, South Behar, and part of North Behar on the west, and East Bengal and the eastern half of South-West Bengal on the east, the deficiency is very variable, being between 20 and 70 per cent. of the normal at eastern stations, and up to 40 per cent. in the western districts.

The comparison of the actual rainfall of the various large divisions of the province during the month is most accurately shown in the form of a percentage. The figures representing the rainfall for the month, calculated in this way, are included in the following table under the heading of September. This table really gives a condensed summary of the rainfall statistics of the present year up to date for each meteorological division; the first nine columns giving the actual average falls in each division for each month expressed as a percentage of the normal, while the tenth column gives the actual rainfall of the first nine months as a percentage of the normal rainfall for that period.

Meteorological Divisions.	January.	February.	March.	April.	May.	June.	July.	August.	September.	Actual rainfall of first nine months of 1890, expressed as a percentage of the normal fall for the period.
Orissa ...	24	5	216	20	99	124	97	80	168	111
South-West Bengal	98	Nil	39	75	87	141	102	69	104	95
East Bengal ...	184	4	70	122	102	89	120	88	60	93
North Bengal ...	98	Nil	26	155	81	132	129	132	143	125
North Behar ...	38	2	25	40	95	140	174	134	97	130
South Behar ...	Nil	5	63	80	95	183	186	125	82	123
Chutia Nagpur ...	Nil	Nil	120	1	66	132	116	75	81	94

The districts which have received more than 50 per cent. excess rainfall are :—Poore e Cuttack, Balasore, Bogra, Dinagepore and Rungpore (where the average fall is double the normal) : between 25 and 50 per cent.—Burdwan, Rajshahye and Purneah. Those where defect is over 50 per cent. are—Furreedpore, Dacca, and Tipperah : between 25 and 50 per cent.—Khoolna, Jessore, Backergunge, Durbhunga, Gya, South Bhagulpore, Lohardugga, and Manbhoom.

The heaviest falls in Orissa are 22 inches at Balasore and Jellasore, and 21 inches at Cuttack, while amounts at the other stations are nearly all over 15 inches. In South-West Bengal a large number of places received between 10 and 12 inches, except in Khoolna and Jessore, where falls are generally under 7 inches. In East Bengal the heaviest falls are Harrishpore 21·3, Subornakhally 16·8, Kutubdia 15·54, Jamalpore 14·1, and a few others in Chittagong and Mymensingh between 10 and 12 inches. In Tipperah and parts of Furreedpore and Dacca total falls are generally between 2 and 5 inches. In North Bengal falls are nearly all over 12, and in Rungpore, Julpigoree, Cooch Behar, and Darjeeling over 20 inches. The only reports under 10 inches are Pubna 8·85, Manda 6·55, and Sibgunge 7·78. The rainfall in Purneah is similar to that in North Bengal, amounts being generally between 15 and 20 inches, but in the other districts of North Bengal falls are nearly always between 5 and 10 inches In parts of South Behar less than 5 inches have been rather frequently registered, especially in Gya and the Southal Pergunnahs, but falls elsewhere are usually between 5 and 8 inches. In Chutia Nagpur the distribution is very uniform at about 7 inches.

The mean fall for the whole of Orissa, as shown in the table below, is 17·2 inches, or 6·9 above the normal ; and in North Bengal, 19·17, which is 5·75 inches above the normal. The mean for South-West Bengal is practically normal, and for the other districts below the normal by 4·87 inches in East Bengal, 1·68 in Chutia Nagpur, 1·45 in South Behar, and ·32 in North Behar.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of September 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.							
			Averages for month.				Of month.			Rainy days.			Since 15th May 1890.	
	Highest observed during month.	Lowest observed during month.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of month above or below normal mean of month.	Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	95·4	72·8	88·4	78·2	83·3	—0·1	17·21	10·25	+6·96	18·3	15·3	+3·0	52·63	45·08
South-West Bengal	103·4?	69·2?	89·2	78·0	83·6	+0·2	9·36	9·04	+0·32	14·8	14·6	+0·2	48·59	46·67
East Bengal	92·8	71·1	87·2	77·8	82·5	+0·3	7·21	12·08	—4·87	12·2	16·5	—4·3	64·33	67·16
North Bengal	94·5	65·6	87·3	77·0	82·2	—0·4	19·17	13·42	+5·75	14·4	14·3	+0·1	83·57	64·29
North Behar	96·3	66·5	88·2	77 5	83·0	—0·5	9·53	9·85	—0·32	8·9	11·1	—2·2	60·79	44·30
South Behar	97·0	67·3	89·2	77·3	83·3	—0·2	6·53	7·98	—1·45	10·3	12·2	—1·9	50·79	39·67
Chutia Nagpur	91·0*	64·8*	83·9*	71·0*	77·5*	—0·3*	7·03	8·71	—1·68	13·3	15·4	—2·1	43·91	44·97
Assam	93·6	67·3	86·7	75·4	81·1	- 1·3								

* Chyebassa not included.

The following table gives full data for the comparison of the actual and normal rainfall for the month of September in all districts of the province.

Percentage Table for September 1890.

Division.	District.	Normal district rainfall for September.	Actual district rainfall for September 1890.	Percentage of actual to normal rainfall.	Percentage excess (+), defect (−).
Orissa ...	Pooree	9·98	15·81	158	+ 58
	Cuttack	9·53	16·74	176	+ 76
	Balasore	11·28	18·35	163	+ 63
South-West Bengal	Midnapore	8·85	9·66	109	+ 9
	24-Pergunnahs	9·62	10·06	105	+ 5
	Howrah	8·61	9·99	116	+ 16
	Hooghly	8·43	9·02	107	+ 7
	Burdwan	7·87	11·49	146	+ 46
	Bankoora	8·53	9·95	117	+ 17
	Beerbhoom	9·16	10·21	111	+ 11
	Nuddea	8·52	10·17	119	+ 19
	Khoolna	9·33	5·78	62	— 38
	Jessore	8·43	5·12	61	— 39
	Moorshedabad	9·77	9·40	96	— 4
East Bengal ...	Chittagong	14·07	11·27	80	— 20
	Backergunge	11·36	7·17	63	— 37
	Noakholly	16·26	12·18	75	— 25
	Furreedpore	8·68	3·61	42	— 58
	Dacca	10·05	3·03	30	— 70
	Tipperah	11·58	4·79	41	— 59
	Mymensingh	12·94	9·92	77	— 23
North Bengal ...	Pubna	10·27	12·39	121	+ 21
	Bogra	10·70	17·03	159	+ 59
	Rajshahye	11·26	15·53	138	+ 38
	Maldah	10·52	12·95	123	+ 23
	Dinagepore	11·17	17·42	156	+ 56
	Rungpore	13·00	25·96	199	+ 99
	Cooch Behar	21·95	26·63	121	+ 21
	Julpigoree	23·59	21·27	90	— 10
	Darjeeling	17·42	16·09	92	— 8
North Behar ...	Purneah	13·53	18·19	135	+ 35
	North Bhagulpore	9·76	8·56	88	— 12
	Durbhunga	9·25	5·55	60	— 40
	Mozufferpore	8·27	7·03	85	— 15
	Chumparun	9·05	8·85	98	— 2
	Sarun	7·68	8·03	105	+ 5
South Behar ...	Shahabad	7·29	7·76	106	+ 6
	Gya	6·90	5·14	73	— 27
	Patna	7·20	7·12	99	— 1
	Monghyr	7·75	5·87	76	— 24
	South Bhagulpore	7·98	4·73	59	— 41
	Sonthal Pergunnahs	8·06	6·89	85	— 15
Chutia Nagpur ...	Hazaribagh	8·10	7·37	91	— 9
	Lohardugga	8·94	5·30	59	— 41
	Singbhoom	8·38	7·18	85	— 15
	Manbhoom	7·68	5·75	75	— 25

Meteorological Office, Bengal; C. Little,

The 14th October 1890. *Offg. Meteorological Reporter to the Govt. of Bengal.*

Meteorological Report of the Province of Be

for the week ending Friday, the 10th of October 1890.

Meteorological Division	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	DISTRICT OBSERVATIONS. Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Rainfall. Of week. Mean for district.	Normal mean.	Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 15th May 1890. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.
Orissa	Puoree	Puoree	29·825	29·837	—	W	18·2	92·2	9th Oct.	74·6	10th Oct.	90·3	79·3	84·8	—	84	1·1	0·71		1·59		2·40			46·51			2·3	Puoree	
		Gopalpore	29·813	29·835	—·002	N	18·2	90·2	4, 6 & 9 ,,	74·8	10th ,,	89·3	77·4	83·4	+0·4	81	1·1	0·65											Gopalpore	Puoree
		False Point	29·811	29·833	—·032	NW.	14·1	89·5	7, 8 ,,	73·6	8th ,,	88·8	75·1	82·0	—0·5	85	2·4	0·16											False Point	
	Cuttack	Cuttack	29·704	29·846	—·014	Calm		93·9	7th ,,	74·8	10th ,,	91·8	77·3	84·5	+0·4	77	2·1	0·15	0·06	1·32	0·09	1·91	—1·82	54·14	45·96	+8·18	0·4	2·2	Cuttack	Cuttack
	Balasore	Balasore	29·786	29·846	—·021	Calm		90·4	4, 6, 8 ,,	74·8	10th ,,	89·8	76·4	83·1	+1·0	87	1·1	0·25	0·15	1·49	0·37	2·08	—1·71	51·69	48·59	+3·10	1·2	2·2	Balasore	Balasore
South-West Midnapore / South 24-Pergunnahs		Sangor Island	29·816	29·842	—·020	Northerly	18·2	89·7	9th ,,	74·5	7th ,,	83·4	77·3	82·9	—0·2	89	4·4	4·96	2·14	1·16	2·14	1·85	+0·29	49·37	55·03	—5·66	2·0	2·4	Sangor Island	South-West Midnapore / South 24-Pergunnahs
	Midnapore	Midnapore	29·686	29·837	—·037	S, NE	19·0	92·3	6, 8 ,,	75·1	4 & 6 ,,	91·2	75·8	83·5	+1·3	81	0·9	0·22	0·22	0·90	0·24	1·37	—1·13	44·96	47·61	—2·65	1·0	1·7	Midnapore	Midnapore
	24-Pergunnahs / Howrah / Hooghly	Calcutta	29·829	29·842	—·020	Calm	3·4	89·5	4, 6 ,,	74·2	4th ,,	88·4	75·5	82·0	—0·1	84	1·9	1·55	1·17	0·92	1·17	1·40	—0·23	48·03	47·88	+0·15	1·4	2·0	Calcutta	24-Pergunnahs / Howrah / Hooghly
	Burdwan	Burdwan	29·751	29·855	—·012	SW	3·2	91·6	6, 8 ,,	76·4	4th ,,	91·0	77·6	84·3	+0·9	81	1·4	0·13	0·58	0·83	0·97	1·27	—0·30	57·14	43·08	+14·06	1·0	1·8	Burdwan	Burdwan
	Bankoora	Bankoora	29·647	29·819	—·038	Calm & Northerly	4·1	92·1	6 & 7 ,,	74·6	5th ,,	91·0	76·0	83·5	+0·2	82	1·7	Nil	0·25	0·79	0·45	1·34	—0·89	47·14	49·18	—2·04	0·8	1·9	Bankoora	Bankoora
	Beerbhoom / West Burdwan	Raneegunge	29·523	29·8·0	—·001	ENE	2·8	92·5	7th ,,	73·4	5th ,,	91·7	75·7	83·7	+1·7	81	2·0	0·01	0·29	1·08	0·12	1·14	—1·02	55·90	49·39	+6·51	1·0	1·8	Raneegunge	Beerbhoom / West Burdwan
	Moorshedabad	Berhampore	29·775	29·843	—·028	SW, W		90·1	4th ,,	74·8	6th ,,	88·8	76·4	82·6	—0·1	87	1·9	0·29	0·17	1·12	0·41	1·59	—1·18	53·24	47·00	+6·24	0·5	2·2	Berhampore	Moorshedabad
	Nuddea	Krishnaghur	29·790	29·839	—·014	SE	5·9	90·8	6, 8 & 10 Oct.	72·8	6th ,,	90·5	74·9	82·7	+0·7	81	3·4	0·30	0·65	0·95	0·63	1·45	—0·82	46·88	45·53	+1·35	1·0	2·1	Krishnaghur	Nuddea
	Jessore / Khoolna	Jessore	29·807	29·841	—·027	Variable	4·0	92·8	4th ,,	76·4	4, 7 ,,	90·4	77·5	83·9	+0·7	80	4·0	0·69	0·50	0·93	0·50	1·41	—0·91	46·25	49·17	—2·92	1·6	2·1	Jessore	Jessore / Khoolna
	Chittagong	Chittagong	29·770	29·850	—·027	NW		90·7	7th ,,	72·7	9th ,,	88·2	76·5	82·4	+1·0	90	3·1	1·00	0·10	1·97	0·10	2·89	—2·79	113·92	106·53		1·0	2·8	Chittagong	Chittagong
	Chittagong Hill Tracts	Demagiri						Observations not received.												2·41		3·49			74·16			2·8	Demagiri	Chittagong Hill Tracts
East Bengal	Backergunge	Barrisal	29·821	29·833	—·029	Calm & Northerly		90·8	6, 8 Oct.	76·4	5th ,,	89·7	77·3	83·5	+1·1	87	2·1	1·76	0·78	1·34	0·78	2·03	—1·25	61·92	70·85	—8·93	2·0	2·3	Barrisal	Backergunge
	Noakholly	Noakholly	29·821	29·865	+·005	Variable	5·6	89·0	7th ,,	72·3	8th ,,	88·1	75·4	81·8	+0·5	87	0·6	0·27	0·68	1·70	0·68	2·72	—2·04	89·75	99·51	—9·76	1·9	2·8	Noakholly	Noakholly
	Furreedpore	Furreedpore	29·818	29·858	—·007	Calm	3·4	88·0	6, 7, 9 ,,	73·0	4th ,,	87·6	76·9	82·3	+0·5	84	2·9	1·23	0·41	1·03	0·91	1·49	—0·58	38·82	51·58	—12·76	0·7	2·1	Furreedpore	Furreedpore
	Dacca	Dacca	29·814	29·856	—·032	Variable		91·1	9, 10 ,,	74·2	4th ,,	90·2	77·5	83·8	+0·7	82	3·9	0·88	0·52	0·89	0·61	1·47	—0·86	53·34	55·77	—2·43	1·0	2·1	Dacca	Dacca
	Commillah	Commillah	29·815	29·851	—·007	ESE	2·1	90·9	7 10 ,,	74·3	9th ,,	90·2	75·2	82·7	+0·0	82	5·4	0·41	0·32	1·56	0·32	2·26	—1·94	54·35	64·08	—9·73	1·3	2·3	Commillah	Tipperah
	Mymensingh	Mymensingh	29·786	29·845	—·016	ENE		89·7	10th ,,	73·6	7th ,,	88·2	75·7	82·0	—0·1	88	2·9	0·76	1·11	1·43	1·55	2·04	—0·49	63·14	61·75	+3·39	1·4	2·2	Mymensingh	Mymensingh
North Bengal	Bogra	Bogra	29·761	29·826	—·020	Calm		89·3	5, 6, & 10 Oct.	74·1	6, 8, 9 ,,	88·5	75·2	81·9	0	88	2·1	Nil	0·03	1·47	0·07	1·99	—1·80	47·33	54·06	+13·27	0·5	1·8	Bogra	Bogra
	Pubna	Serajgunge	29·795	29·842	—·029	North-easterly.	2·5	90·6	10th ,,	73·7	6th ,,	88·7	75·7	82·2	0	85	1·7	0·09	0·28	0·98	0·28	1·45	—1·17	40·07	40·37	—0·30	1·0	1·7	Serajgunge	Pubna
	Rajshahye	Rampore Boaleah	29·769	29·819	—·011	Variable	3·7	90·3	4th ,,	74·1	4th ,,	88·9	76·9	82·9	+1·5	82	0·7	2·21	0·72	1·19	0·86	1·52	—0·66	65·65	50·46	+15·19	0·7	1·9	Rampore Boaleah	Rajshahye
	Maldah	Maldah	29·754	29·835	+·044	NE	5·3	90·9	6th ,,	74·3	6th ,,	90·0	75·9	83·0	+0·0	85	0·6	0·14	0·07	1·39	0·07	1·92	—1·85	54·61	51·02	+2·59	1·9	2·0	Maldah	Maldah
	Dinagepore	Dinagepore	29·728	29·849	—·029	E, NE		90·1	6, 10 ,,	74·1	6th ,,	88·4	75·0	81·7	—0·1	86	2·9	0·35	0·18	1·19	0·18	1·91	—1·73	48·48	54·47	+14·01	0·8	1·9	Dinagepore	Dinagepore
	Rungpore	Rungpore	29·730	29·893	—0·2	E	3·4	89·8*	10th ,,	73·7	5, 8, 9 ,,	88·0*	74·9	81·6*	—0·1	86	0·8	1·22	0·78	1·31	1·69	2·38	—0·69	99·06	70·57	+19·49	1·3	1·9	Rungpore	Rungpore
	Julpigoree / Cooch Behar	Julpigoree	29·595	29·857	—·022			89·9	10th ,,	71·1	4, 5, 8, 10th Oct.	86·1	71·9	78·8	—1·0	91	0·9	4·25	1·59	1·78	2·39	2·85	—0·46	141·86	106·70	+35·16	2·2	2·3	Julpigoree / Cooch Behar	Julpigoree / Cooch Behar
	Darjeeling Hill Tracts	Darjeeling	23·060	—	—·03·	Variable		64·6	,,	40·6	8, 9 ,,	62·6	51·7	57·2	+0·7	92	5·4	0·07	2·40	1·95	3·38	2·96	+0·42	154·54	116·11	+38·43	3·0	2·4	Darjeeling	Darjeeling Hill Tracts
North Behar	Purneah / North Bhagulpore	Purneah	29·716	29·843	—·022	NE		89·7	6th ,,	68·9	7th ,,	88·1	74·9	81·0	—1·4	87	1·4	0·46	0·32	1·30	0·12	1·87	—1·45	74·78	56·24	+18·54	1·2	1·2	Purneah	Purneah / North Bhagulpore
	Mozufferpore	Mozufferpore	29·648	29·829	—			90·8	7th ,,	75·2	9, 10 ,,	89·8	76·2	83·0	—	86	1·0	Nil	Nil	1·79	0·02	2·16	—2·14	50·80	41·63	+9·17	0·0	1·3	Mozufferpore	Mozufferpore
	Durbhunga	Durbhunga	29·681	29·850	—·026	Variable	5·1	90·9	7th ,,	74·5	8th ,,	89·8	75·8	82·8	+0·1	81	0·3	Nil	Nil	1·45	Nil	1·77	—1·77	55·77	42·71	+13·06	0·0	1·2	Durbhunga	Durbhunga
	Chumparun	Motihari	29·653	29·853	—·001	Calm	5·4	91·2	6, 8, 10 ,,	72·8	8, 10 ,,	90·6	73·5	82·2	+3·0	84		Nil	Nil	1·82	0·12	2·56	—2·44	62·94	45·35	+17·59	0·0	1·3	Motihari	Chumparun
	Sarun	Chupra	29·631	29·826	—·024	Variable	5·0	91·3	6 –7 ,,	76·3	10th ,,	90·2	77·6	83·9	+3·7	84	0·3	0·05	Nil	1·60	Nil	2·97	—2·97	52·12	40·43	+11·69	0·0	1·2	Chupra	Sarun
		Dehree	29·579	29·847	—·036	Calm	1·5	91·3	6th ,,	71·5	7th ,,	89·9	73·6	81·8	+1·5	78	0·7	Nil											Dehree	
South Behar	Shahabad	Buxar	29·587	29·852	—·023	WSW	5·0	89·9	7th ,,	71·3	5, 7 ,,	89·4	75·0	82·2	+1·1	82	0·2	Nil	Nil	1·46	0·18	1·90	—1·72	48·43	37·64	+10·79	0·0	1·0	Buxar	Shahabad
		Arrah	29·637	29·840	—·049	SW	0·6	91·4	7th ,,	75·4	10th ,,	90·5	76·6	83·5	+2·1	83	1·8	Nil											Arrah	
	Gya	Gya	29·654	29·847	—·015	Variable	10·4	91·4	6, 7 ,,	73·8	7, 8 ,,	90·4	75·4	82·9	+0·1	80	1·1	N	Nil	1·50	0·01	1·76	—1·75	50·71	39·49	+17·22	0·0	1·1	Gya	Gya
	Patna	Bankipore	29·656	29·841	—·025	Variable	5·3	91·9	4th ,,	75·7	7th ,,	90·3	76·7	83·5	+0·7	78	0·3	Nil	0·05	1·52	0·07	1·80	—1·73	46·83	38·97	+7·86	0·3	1·2	Bankipore	Patna
	South Bhagulpore / Monghyr	Bhagulpore	29·665	29·829	—·026	Calm	1·2	90·2	5—7 ,,	73·5	5th ,,	89·3	74·9	82·1	+0·1	81	0·3	Nil	0·02	1·34	0·10	1·68	—1·58	50·19	40·01	+9·28	0·2	1·3	Bhagulpore	South Bhagulpore / Monghyr
Chota Nagpur	Sonthal Pergunnahs	Deoghur	29·642	29·844	—·016	Variable	3·8	90·6	7th ,,	67·4	8th ,,	89·4	73·0	81·2	+0·1	81	0	0·34	0·34	1·28	0·51	1·76	—1·25	53·57	48·17	+5·40	1·3	1·5	Deoghur	Sonthal Pergunnahs
	Hazaribagh	Hazaribagh	27·883	29·859	—·017	Westerly		86·5	6th ,,	68·2	5, 7, 8 ,,	86·0	69·1	77·1	+0·0	81	1·4	Nil	Nil	1·15	0·16	1·60	—1·44	47·08	47·67	—0·59	0·0	1·5	Hazaribagh	Hazaribagh
	Lohardugga / Manbhoom	Ranchee	27·718	29·854	—·012	Calm	5·8	86·0	7th ,,	65·4	6th ,,	84·7	67·8	76·0	+0·0	81	1·0	—	Nil	1·14	0·81	1·31	—0·50	40·15	45·79	+0·36	0·0	1·4	Lohardugga / Manbhoom	
																			Nil	1·25	0·08	1·73	—1·65	48·45	54·56	—1·11	0·0	1·3	Ranchi	
	Singhbhoom	Chyebassa	29·074	29·845	—·010	ENE	2·9	90·9	7th ,,	70·2	8th ,,	89·8	72·1	80·9	+0·4	80	1·0	·26	Nil	0·79	0·56	1·09	—0·53	32·77	48·56	—15·79	0·0	1·7	Chyebassa	Singhbhoom
Assam	Assam	Sibsagar	29·68	29·909	—·007	NE		87·6	10th ,,	70·4	9th ,,	84·5	71·6	78·1	—2·1	97	8·9	1·20											Sibsagar	Assam
		Dhubri	29·737	29·856	—·028	ENE		86·7	6th ,,	72·8	5, 9 ,,	85·3	73·8	79·6	—1·1	88	2·0	0·97											Dhubri	
		Silchar	29·756	29·867	—·021	Calm		94·5	10th ,,	70·3	7th ,,	91·5	73·4	82·5	+0·2	89	7·0	0·18											Silchar	

* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for t
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The nu
are the arithmetical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during t
stations in the district during in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal
ten years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdi

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 10th of October 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 4th October.	Sunday, 5th October.	Monday, 6th October.	Tuesday, 7th October.	Wednesday, 8th October.	Thursday, 9th October.	Friday, 10th October.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	0·14	.....	1	0·14	0·14	1·94	55·93	41 0
		Khurdah ...	.....	1·54	.....	.....	.....	.....	.....	1	1·54	1·54	2·36	57·76	49·58
		Banpur ...											2·91		42·76
		False Point ...	.....	.....	.....	.....	.....	0·16	.....	1	0·16	0·60	2·40	52·30	52·09
		Gop ...	0·50										?		?
		Satpara ...											?		
		Pipli ...	.....	0·47											
	Cuttack	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·25	52·02	46·58
		Banki ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·78	54·37	43·25
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·77	71·66	59·07
		Kendrapara ...	.....	0·16	.....	.....	.....	.....	0·15	2	0·31	0·44	1·76	45·69	46·79
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·01	46·37	48·36
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·98	?
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·74	?
	Balasore ..	Chandbali ...	0·03	.....	.....	.....	.....	.....	.....	1	0·03	0·03	2·12	43·14	40·57
		Bhuddruck ...	.....	.....	.....	.....	.....	0·10	.....	1	0·10	0·10	1·15	47·18	47·11
		Sorah ...	.....	.....	.....	.....	.....	0·10	.....	1	0·10	0·10	2·36	53·84	46·83
		Balasore ...	0·04	.....	.....	.....	.....	0·03	0·01	3	0·08	0·08	2·32	56·78	52·13
		Jellasore ..	.....	0·69	.....	.....	.....	.....	.....	1	0·60	0·60	2·09	54·86	48·11
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·25	1·97	53·12	50·51
South-West Bengal.	Midnapore ..	Contai ...	.....	.....	.....	.....	.....	.....	0·24	1	0·24	0·24	1·68	45·91	53·23
		Saugor Island	3·84	0·07	.....	.....	.....	1·05	.....	3	4·96	4·96	2·17	50·81	58·20
		Tumlook ...	0·20	.....	.....	.....	.....	.....	.....	1	0·20	0·20	1·01	51·00	46·88
		Midnapore ...	0·22	.....	.....	.....	.....	.....	.....	1	0·22	0·22	1·52	42·59	44·44
		Ghntial ...	0·25	.....	.....	.....	.....	.....	.....	1	0·25	0·30	1·58	42·93	51·54
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		40·04	?
		Garbetta ...	0·18	.....	.....	.....	.....	.....	.....	1	0·18	0·18	?	42·83	?
	24-Pergunnahs	Diamond Harbour ...	0·57	.....	.....	.....	.....	.....	0·60	2	1·23	1·23	1·71	51·55	53·71
		Canning Town	0·16	0·38	.....	.....	.....	.....	.....	2	0·54	0·54	?	53·20	?
		Alipore Jail ...	0·33	.....	.....	.....	.....	1·72	.....	2	2·05	2·05	1·40	54·28	51·33
		Barrackpore...	0·85	.....	.....	.....	.....	.....	.....	1	0·85	0·85	1·26	42·35	45·80
		Dum-Dum ...	2·04	.....	.....	.....	.....	.....	.....	1	2·04	2·04	1·21	45·75	47·47
		Barasat ...	1·27	0·08	.....	.....	.....	.....	.....	2	1·35	1·35	1·45	45·02	45·63
		Buseerhat ...	1·74	.....	.....	.....	.....	.....	.....	1	1·74	1·74	1·36	49·52	50·68
	Howrah ...	Howrah ...	0·77	.....	.....	.....	.....	0·03	.....	2	0·80	0·80	1·40	45·08	47·02
		Mohesreka ...	0·18	.....	.....	.....	.....	.....	.....	1	0·18	0·18	1·50	54·47	48·78
		(*Colobertah*)								2	0·89	0·89	1·40	46·75	46·42
	Hooghly ..	Serampore ...	0·18	0·71	.....	.....	.....	.....	.....	1	1·23	1·23	1·44	47·11	44·51
		Hooghly ...	1·23	.....	.....	.....	.....	.....	.....	1	0·55	0·55	1·30	48·91	51·03
		Jehanabad ...	0·55	.....	.....	.....	.....	.....	.....						
	Burdwan ..	Culna ...	1·44	.....	.....	.....	.....	.....	0·16	2	1·60	1·60	1·45	51·74	40·76
		Burdwan ...	0·13	.....	.....	.....	.....	.....	.....	1	0·13	0·13	0·95	61·60	44·20
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·17	1·40	58·04	44·27
		Ranegunge ...	0·01	.....	.....	.....	.....	.....	.....	1	0·01	0·01	1·40	51·62	46·45
		Mankur ...	0·53	.....	.....	.....	.....	.....	.....	1	0·53	0·53	?	44·05	?
	Bankoora ..	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·57	53·00	48·04
		Bishenpore ...	0·14	.....	.....	.....	.....	.....	.....	1	0·14	0 35	0·03	46 64	49·25
		Maliara ...	1·47	.....	.....	.....	.....	.....	.....	1	0·47	0·47	1·19	53·78	45·05
		Khatra ...	0 41	.....	.....	.....	.....	.....	0·05	2	0·46	1·06	1·97	35 10	53·09
		Indas ...	0·95	.....	.....	.....	.....	.....	.....	1	0·05	0·95	?	55·18	?
		Kotalpore ...	1·80	.....	.....	.....	.....	.....	.....	1	1·80	1·80	?	62·06	?
		Anda ...	....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	?	46·31	?
		Gangajalghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·84	?
		Kaipore ...	0·17	.....	.....	.....	.....	.....	0·12	2	0·29	0·78	?	47·94	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·23	?
	Beerbhoom	Bh. Soory ...	0·30	.....	.....	.....	.....	.....	.....	1	0·30	0·31	1·36	55·89	50·65
		Hetampore ...	0·10	.....	.....	.....	.....	.....	.....	1	0·10	0·61	1·41	51·13	52·09
		Rampore Haut	0·75	.....	.....	.....	.....	.....	.....	1	0·75	0·75	1·60	65·03	48 29
		Bolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·20	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·35	?
	Nuddea ..	Ranaghat ...	0·54	.....	.....	.....	.....	.....	.....	1	0·54	0·54	1·39	48·50	43·54
		Kishnaghur ...	0·27	.....	.....	.....	.....	.....	.....	1	0·27	0·27	1·60	54·06	42·40
		Chooadanga ...	0·41	.....	.....	.....	.....	.....	.....	1	0·41	0 41	1 46	39·22	47·14
		Meherpore ...	1·25	.....	.....	.....	.....	.....	.....	1	1·25	1·25	1·58	46·86	44·39
		Kooshtea ...	0·67	.....	.....	.....	.....	.....	.....	1	0·67	0·67	1·58	45·77	50·11
	Khoolna ..	Satkhira ...	0·46	0·16	.....	.....	0·01	.....	.....	3	0·63	0·63	1·63	50·72	51·61
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·45	56·16	56 11
		Khoolna ...	0·32	.....	.....	.....	.....	0·84	.....	2	1·16	1·16	1·02	46·05	50·30
		Nakipur ...	0·38	.....	.....	.....	.....	.....	.....	1	0·38	0·38	?	60·28	?
		Rampal ...	.....	.....	.....	0·16	.....	.....	.....	1	0·16	0·16	?	54·50	?
	Jessore ..	Narail ..	0·71	0·05	.....	.....	.....	.....	.....	2	0·76	0·76	1·17	40·20	42·31
		Jessore ...	0·58	0·03	.....	.....	0·08	.....	.....	3	0 69	0·69	1·25	5 1·42	5·1·01
		Jhenidah ...	0·15	.....	.....	.....	.....	.....	.....	1	0·15	0·15	1·65	4 1·36	49·14
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1 87	34·25	45·93
		Bongong ...	0·45	0·15	.....	.....	.....	.....	.....	2	0·60	0·60	1·90	38·76	47·82
	Moorshedabad	Kandi ...	0·72	.....	.....	.....	.....	.....	.....	1	0·72	1·25	1·06	60·56	46·83
		Berhampore...	0·29	.....	.....	.....	.....	.....	.....	1	0·29	0·83	1·74	52·44	47·61
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	1·69	56·19	46·31
		Azimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·85	51·46	47·42
		Jungipore ...	.....	.....	.....	.....	0·02	.....	.....	1	0·02	0·26	1·10	43·13	46·23
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·51	55·40	47·59
		Jagunge ...											?		?
		Akhriguni ...	1·05	.....	.....	.....	.....	.....	.....	1	1·05	1·05	?	54·41	?
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	?	?	?
East Bengal	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	0·10	.....	1	0·10	0·10	2·66	134·76	134·88
		Chittagong ...	.....	0·10	.....	.....	.....	.....	.....				2·72		86·08
		Kutubdia ...											?		?
		Satkania ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	77·93	?
	Chittagong Hill Tracts	Rangmati ...	.....	.....	.....	.....	0·51	.....	0·30	2	0·81	0·81	3·81	66·10	77·33
		Runia ...											3·16		79·82
	Backergunge	Patuakhally...	1·00	0·25	.....	.....	0·30	.....	.....	3	1·55	1·55	1·75	71·07	80·48
		Perozepore ...	0·22	.....	.....	.....	.....	.....	.....	1	0·22	0·22	2 19	57·96	64·31
		Burrisal ...	0·42	0·58	0·06	.....	.....	.....	0·10	4	1·16	1·16	1·67	59·85	63·09
		Bhola ...	.....	0·27	.....	.....	.....	.....	.....	1	0·27	0·27	2·51	58·45	76·47

atement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 10th of October 1890—contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 4th October.	Sunday, 5th October.	Monday, 6th October.	Tuesday, 7th October.	Wednesday, 8th October.	Thursday, 9th October.	Friday, 10th October.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
ST BENGAL —*concld.*		*Gourseddi* ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	37·17	?
		Bauphai ...	0·82	0·62	.....	.....	0·36	.....	.....	3	1·80	1·80	?	66·12	?
	Noakholly ...	Noakholly ...	.....	.....	.....	.....	0·31	.....	.....	1	0·31	0·31	2·87	82·37	100·71
		Feuny ...	.....	.....	.....	.....	.....	1·05	.....	1	1·05	1·05	2·56	96 92	98·31
		Harishpore ...											?	?	?
		Ramganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·48	?
	Furreedpore	Madaripore ...	0·13	.....	.....	.....	.....	.....	.....	1	0·13	0·29	1·61	33·40	52·03
		Furreedpore...	.....	.....	.....	.....	.....	.....	... .	Nil	Nil	1·35	1·43	4 1·42	53·97
		Goalundo ...	1·09	.....	.....	.....	.....	.....	.....	1	1·09	1·09	1·44	39·50	48·08
	Dacca ...	Munshigunge	0·20	.....	.....	.....	.....	.....	.....	1	0·20	0·20	1·91	53·81	64·81
		Dacca ...	1·12	.....	.....	.....	.....	.....	.....	1	1·12	1·12	1·54	49·64	55·08
		Narainguuge	0·39	.....	... ..	.....	.....	.....	... ..	1	0·39	0·39	1·24	57·84	56·75
		Manickgunge	0·38	.....	.....	.....	.....	.....	... ..	1	0·38	0 72	1·17	5 1·20	46·21
		Joydebpore ...	0·83	.....	.....	.....	.....	.....	... ..	1	0 83	0·83	?	60·74	?
	Hill Tipperah	Agartola ...	0·63	.....	.....	.....	.....	.....	... ..	1	0·63	0·63	1·90	56·86	56·37
	Tipperah ...	Comilla ...	0·07	.....	... ..	0·03	.....	.....	.....	2	0·10	2 03	59 13	71·76	
		Chandpore ...	0·18	.....	... ..	.....	.....	.....	.....	1	0·18	0·18	3·36	51·84	70·92
		Brahmunberia	0·14	.....	0·21	.....	.....	.....	.....	2	0·35	0·35	1·73	49·02	57·32
		Ramchandrapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·06	?
		Nasirnagar...	0·60	.....	.....	.....	.....	.....	.....	1	0·60	0·60	?	33·61	?
		Daudkandi ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	?	25 23	?
		Kasba ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	?	50·87	?
		Laksham ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·33	?
	Mymensingh...	Kishoregunge	0·65	.....	1·93	... ..	... ..	.....	... .	2	2·58	3·26	2·13	65·35	65·57
		Atia (*Tangail*)	0·68	.....	.....	... ..	.....	... ..	.....	1	0·68	0·68	1·76	48·22	57 46
		Mymensingh	0·56	0·03	.....	.....	.....	.....	.....	2	0·59	0·59	1·98	69·71	69·33
		Jamalpore ...	.....	0·52	.....	.....	.....	.....	... ..	1	0·52	0·52	1·78	60·39	61·01
		Netrokona ...	.....	2·70	.....	.....	.....	.....	.....	1	2 70	2·70	2·56	88·32	76·50
		Subornakhali	0·05	... ..	.....	.....	.....	.....	... ..	1	0·05	0·05	?	51·02	?
		Durgapore ...	2·52	2·90	... ..	.....	.....	.....	.....	2	5·42	5·42	?	111·66	?
		Shereporo Town	0·52	0·14	.....	.....	.....	.....	... ..	2	0 66	0 66	?	58·59	?
		Dewanganj ...	.....	.....	.....	.....	.....	.....	0·46	1	0·46	1·01	?	62 89	?
NORTH BENGAL.	Pubna ...	Pubna ...	0·39	.....	.....	.....	.....	.....	.....	1	0·39	0·39	1·78	42·33	50·16
		Serajgunge ...	0·17	.....	.....	... ..	.....	.....	... ..	1	0·17	0·17	1·12	55·73	48·53
	Bogra ...	Sherepore ...	0·03	.....	.... .	.....	.....	.....	. ....	1	0·03	0·03	1·62	67·12	54·66
		Nowkhilla ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	2·55	56·24	50·69
		Bogra ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·47	67 18	57·65
		Panchbibi ...	.....	0·07	.....	.....	.....	.....	.... .	1	0·07	0·22	2 23	78·03	53·18
	Rajshahye ...	Beauleah ...	2·08	.....	.....	.....	.....	.....	... ..	1	2·08	2·11	1·60	63·02	49·39
		Nattore ...	0·08	. ...	.....	.....	.....	.....	.....	1	0 08	1·79	77·37	51·22	
		Naogaon ...	.....	.....	.....	.....	.....	.....	... .	Nil	Nil	0·39	1·24	56·91	50·77
		Lalpore ...	.....	.....	.....	.....	... .	.....	1·70	1	1·70	2·02	?	45·74	?
		Manda ...	.....	.....	.....	....	.....	.....	. ....	Nil	Nil	0·40	?	35·47	?
	Maldah ...	Maldah ...	0·12	0·02	.....	.....	.....	.....	.....	2	0·14	0·14	1·97	57·89	49·40
		Chanchal ...	... ..	.....	... .	.....	.....	.....	... .	Nil	Nil	Nil	1·87	57·29	54 80
		Gajol ...	.....	0·10	.....	.....	.....	.....	.....	1	0·10	0·10	?	77·98	?
		Sibganj ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	?	49·44	?
	Dinagepore ...	Mohadebpore	0·16	.....	.....	... ..	.....	.....	... ..	1	0·16	0·16	1·68	59·59	54·59
		Churamon ...	.....	.....	.....	.....	.....	... .	...	Nil	Nil	Nil	1·59	70·50	51·08
		Raigunge ...	.....	.. ...	.....	.....	.. ...	.....	.....	Nil	Nil	Nil	2·49	78 98	56 23
		Dinagepore ..	.....	0·40	... ..	.....	.....	.....	... ..	1	0·40	0·40	2·99	72·42	60·74
		Balooreghat .	... ..	0·35	.....	.....	.....	.....	.....	1	0·35	0 35	1·40	70·97	49·91
		Thakurgaon	0·11	... ..	... ..	... ..	.....	.....	. ....	1	0·11	0·11	?	89·84	?
	Rungpore ...	Buxwanigunge (*Gyabanda*)	.....	0·50	.....	.....	.....	.....	... ..	1	0·50	1·45	2·21	104·25	59·08
		Rungpore ...	1·17	... .	.....	.....	.....	.....	.....	1	1·17	1·17	2 0·	77 7·	70·72
		Kurigram ...	0·23	0·07	.....	.....	.....	.....	.....	2	0·30	2 90	2 30	80·02	70·51
		Bagdogra (*Nilphamari*)	1·15	.....	.....	.....	.....	.....	.....	1	1·15	1·23	2·83	97·14	82·01
		Ulipore ...	0·98	.....	.....	.....	.....	.....	.....	1	0·98	1·43	?	81 17	?
	Julpigoree ...	Julpigoree ...	0·86	3·13	.....	.....	.....	... ..	... ..	2	3·99	5·25	2·25	143·22	113·25
		Alipore Dooar	.....	0·75	.....	.....	... ..	.....	.....	1	0·75	2·93	?	176·13	?
		Pallacotta ...	.....	3·22	.....	.....	.....	.....	.....	1	3·22	4·85	?	134·56	?
		Debiganj ...	1·06	.....	.....	.....	.....	.....	.....	1	1·06	1·02	?	104·40	?
		Bhagalpore (Nagrakatta)	2·20	.....	1·03	0·24	0·05	.....	.....	4	3·53	4·83	2·90	171·98	?
	Cooch Behar..	Dinhatta ...	0·12	0·35	.....	.....	.....	.....	... ..	2	0·47	0·76	3·01	112 73	92·18
		Cooch Behar...	.....	0·40	0·05	.....	.....	.....	.....	2	0·45	1·00	3·01	157 88	115·50
		Mickilgunge...	0·50	1·39	.....	.....	.....	.....	.....	2	1·89	2·05	2·06	135·39	102·90
		Mathabhanga...	0·02	1·13	0·02	... ..	.....	.....	.....	3	1·17	2·11	4 05	159·58	109·04
	Darjeeling Hill.	Buxa ...	3·37	3·00	0·44	0·19	0·05	.....	.....	5	7·05	9·27	5·19	199·23	135·67
		Silliguri ...	1·15	0·17	.....	0·14	... ..	.....	.....	3	1·46	3·36	2·45	168·31	109·10
		Darjeeling ...	.....	... ..	0·01	.....	0·06	.....	.....	2	0·07	0·33	2 29	140·93	102·42
		Kalimpong ...	0·08	.....	.....	0·05	.....	.....	... ..	2	0·13	0·57	1·02	111·13	76·23
		Kurseong ...	.....	0·10	.....	0·04	.....	.....	.....	2	0·14	0·28	?	130·05	?
NORTH BEHAR	Purneah ...	Kissengunge...	0·13	0·14	.....	.....	.....	... ..	.....	2	0·26	0·26	1·56	92·32	67·83
		Arrareah ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	0·41	1·90	77·76	61·47
		Purneah ...	0·11	0·36	.....	.....	.....	.....	.....	2	0·46	0·40	2·02	83 14	58·97
		Gondwara ...											?	?	?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·70	?	88·40	?
		Matiari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·21	?
		Kaliaganj ...	.....	0·29	.....	.....	.....	.....	.....	1	0 29	0·82	?	41·97	?
	North Bhagulpor	Maddapore ...	0·82	.....	.....	.....	.....	.....	.....	1	0·82	0·82	2·42	59 20	47·08
		Soopool ..	.....	0·06	.....	... ..	.....	.....	.....	1	0·06	0·15	1·44	61·86	46·10
		Protabganj...	0·75	.....	.....	.....	.....	.....	.....	1	0·75	0·75	?	47·40	?
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·07	56·97	41·23
		Durbhunga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·78	56·19	43·84
		Madhubani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·47	60·52	43·06
		Bahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·74	?
		Ecshera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·29	?
	Monufferpore	Sitamarhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	1·78	* 50·42	41·83
		Monufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·86	54·57	42·97
		Hajipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·84	47 41	40·00
		Pare ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64·81	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·03	?
		Sighat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·68	?
		Dumri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·35	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 10th of October 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 4th October.	Sunday, 5th October.	Monday, 6th October.	Tuesday, 7th October.	Wednesday, 8th October.	Thursday, 9th October.	Friday, 10th October.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —*concluded.*	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·47	65·60	42·97
		Bettiah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·24	2·65	60·24	46·84
		Bagaha ...											?		?
		Burhurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	?	56·32	?
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	4·38	51·00	41·67
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·30	59·03	41·37
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·15	46·83	38·26
South Behar	Shahabad ...	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·77	50·67	39·82
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	1·63	43·79	37·80
		Bhabooah ...	.....	.....	.....	.....	.....	...	.....	Nil	Nil	Nil	1·90	40·80	38·49
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·25	43·25	38·19
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·89	1·95	64·50	37·95
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·07	?
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·19	58·98	41·12
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·02	1·33	59·72	40·53
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·52	54·41	37·86
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·00	52·93	38 37
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·43	?
		Daudnagar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·65	?
		Sherrghati ...	.....	.....	.....	.....	.....	... ..	... ..	Nil	Nil	0·95	?	38·09	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·26	?	45 06	?
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·00	?	52·27	?
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·89	49·00	39·61
		Dinapore ...	.....	.....	.....	.....	0·20	.....	.....	1	0·20	0·27	1·91	50·43	39·31
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·69	45·84	39·41
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·70	42·00	37·49
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·07	?
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·17	?
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·55	42·03	37·59
		Monghyr ...	0·08	.....	.....	.....	.....	.....	.....	1	0·08	0·08	1·79	52·56	44·02
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·12	1·45	58·20	41·58
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·10	?
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·79	?
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·04	54·36	40·23
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·26	1·55	38·74	41·11
		Kolgong ...	.....	.....	.....	.....	0·25	.....	.....	1	0·25	0·25	?	56·54	?
		Bongaon ...											?		?
	Sonthal Pergunnahs.	Rajmehal ...	.....	0·11	.....	.....	.....	.....	.....	1	0·11	0·11	1·77	48·52	50·11
		Godda ...	.....	.....	.....	.....	0·95	.....	.....	1	0·95	1·15	1·56	46·24	42·07
		Pakour ...	.....	0·02	.....	0·01	0·03	.....	.....	3	0·06	0·22	2·01	62·19	52·33
		Nya Doomka	0·69	.....	.....	.....	0·70	.....	.....	2	0·79	0·79	2·01	62·55	52·05
		Deoghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·34	1·40	45·59	46·43
		Jamtara ...	0·12	.....	.....	.....	.....	.....	.....	1	0·12	0·44	1·82	56·47	45·98
		Mohagama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·53	?
		Nanahat ...	.....	.....	.....	.....	0·41	.....	.....	1	0·41	0·41	?	27·73	?
Chutta Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·13	1·48	52·40	44·90
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·47	1·66	49·09	45·26
		Somtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	1·57	38·29	43·57
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·87	1·67	41·52	46·81
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·61	54·00	57·83
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	?	47·34	?
		Chatra ...	.....	.....	.....	.....	.....	.....	0·15	1	0·15	1·33	?	46·36	?
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·93	?	54·38	?
		Ramghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	?	48·11	?
	Lohardugga ...	Lohardugga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·10	0·90	52·53	47·44
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·84	1·25	41·87	49·13
		Palamow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·50	1·72	44·18	40·79
		Silli ...	1·10	.....	.....	.....	.....	.....	.....	1	1·10	2 20	?	40·30	?
		Kalumat ...											?		?
		Hosseinabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75	?
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·80	?
	Singbhoom ...	Chyebassa ...	.....	.....	.....	.....	.....	.....	0·28	1	0·28	0·84	1·09	33·05	48·56
		Chakradhar-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	23·13	?
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·35	?	47·37	?
		Baharagura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·23	?	48·72	?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	1·53	41·26	46·52
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	1·98	35·14	43·52
		Raghunath-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·52	?
		Barradhoom	.....	.....	.....	.....	.....	.....	0·20	1	0·20	0·20	?	42·45	?
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·35	?	61·55	?
		Chas ...	0·08	.....	.....	.....	.....	.....	.....	1	0·08	0·20	?	45·06	?

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 14th October* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 10TH OCTOBER 1890.

EXCEPT on October 4th, the first day of the past week, weather was fine and settled, with neither pressure nor temperature differing to any great extent from the normal, and an almost entire absence of rainfall. On Saturday pressure was falling briskly in Behar, where readings were lowest, and up till then south-westerly or westerly winds had been blowing over Bengal as far east as Assam, but a shift to south-east of directions over the eastern half of the province seems to have caused the thunderstorms which prevailed so extensively on the evening of the 3rd in all districts except Behar, Chutia Nagpur, and Orissa, in the last two of which, however, a few scattered showers were received. Rain fell in varying quantity at nearly all stations in North Bengal, South-West Bengal and East Bengal, but after the 4th conditions again became settled with light variable winds in Bengal, and a slow indraught towards a commencing low-pressure area over the Bay. Up till the 6th there was very little change, and then a brisk rise commenced along the foot of the hills, giving relatively highest pressure there and north-east winds in East and North Bengal. At the same time a steady slow fall was going on in the Bay, making the depression daily more definite, at first in the extreme south, and probably covering a large area. By the end of the week it was not far from the coast, moving slowly towards Vizagapatam. The indraught to the low-pressure area stopped the flow of moist air from the Bay, so that during the latter part of the week very fine clear weather was general in Bengal. The influence of the depression, however, was beginning to be felt in Orissa, a few light showers falling there both on Thursday and Friday.

Pressure has been on an average below the normal by about two-hundredths of an inch at nearly all stations; changes have generally been below a twentieth of an inch. There was a brisk to moderate fall during the first two days, then a moderate rise for two days which gave a distribution very nearly normal, and on the last three a general slow fall.

Temperature has been below the normal in Assam and North Bengal, above the normal by less than half a degree in Lower Bengal, and above in Behar by about 1·5°. Changes have been very irregular, but generally small.

Rainfall.—Almost all the rain of the week fell on Saturday the 4th, being caused by the thunderstorms which were so general on that day. The weather almost immediately became more settled, and during the rest of the week only a few light scattered showers fell in East Bengal, chiefly in Chittagong, Backergunge, and Noakhally; in North Bengal in the Cooch Behar and Darjeeling Hill Districts, and in Orissa towards the end of the week. Average falls are very small in Orissa, Behar, and Chutia Nagpur, and very little over half an inch in the other districts. The average fall expressed as a percentage of the normal gives Chutia Nagpur 3, North Behar 7, South Behar 8, Orissa 14, North Bengal 44, East Bengal 49, and South-West Bengal 70.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 10th of October 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	93·9	73·6	90·0	77·1	83·6	+0·2	0·20	1·46	−1·26	0·9	2·2	−1·3	0·32	2·11	52·89	46·90
South-West Bengal ...	92·8	72·8	90·2	76·3	83·2	+0·4	0·67	0·96	−0·29	1·2	2·0	−0·8	0·76	1·45	49·35	48·06
East Bengal	91·1	72·3	88·9	76·4	82·6	+0·5	0·70	1·44	−0·74	1·3	2·4	−1·1	0·80	2·13	65·47	69·27
North Bengal	90·6	71·1	88·1	74·9	81·5	−0·2	0·60	1·38	−0·78	1·2	1·9	−0·7	0·90	2·10	83·79	66·15
North Behar	91·3	68·9	89·7	75·5	82·6	+1·6	0·10	1·54	−1·44	0·4	1·2	−0·8	0·14	2·20	61·00	46·63
South Behar	91·9	71·5	90·0	75·4	83·7	+1·2	0·11	1·41	−1·30	0·5	1·2	−0·7	0·21	1·78	51·03	41·47
Chutia Nagpur	86·5*	65·4*	84·9*	69·2*	76·6*	0*	0·03	1·13	−1·10	0·1	1·5	−1·4	0·39	1·50	44·01	46·65
Assam	94·5	70·3	87·1	72·9	80·0	−1·0										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 14th October 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 5th to 11th October 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Oct.	5th	147·5	10·1	29·728	82·9	89·4	12·2	77·2	78·6	0·924	86·8	83	WSW and calm ..	33	Nil	Chiefly clear, ≏.
,,	6th	143·5	8·3	·776	81·9	88·5	12·8	75·7	78·1	·915	76·5	85	Calm and variable...	19	,,	Chiefly clear, ≏, 〓.
,,	7th	145·5	8·9	·799	81·8	88·5	13·3	75 2	77·1	·871	75·0	81	ENE and calm ...	30	,,	Chiefly clear, ≏, 〓.
,,	8th	147·3	8·7	·788	81·6	88·4	13·3	75·1	77·7	·898	76·0	84	ENE, calm and variable.	42	1·17	Partially cloudy, ≏, p.
,,	9th	149·2	8·1	·772	82·1	88·0	13 3	74·7	78·2	·916	76·6	84	ENE and calm ...	28	Nil	Partially cloudy, ≏, 〓, t, ≺.
,,	10th	153·0	10·6	·776	82·8	88·8	12·5	76·3	77·4	·875	75·2	79	ESE and calm ...	40	,,	Chiefly clear, ≏.
,,	11th	147·4	8·0	·784	79·8	88·5	12·1	76·4	75·8	·839	73 9	82	ESE and calm ...	50	,,	Partially cloudy, ≏, o, g.

		Inches.
The mean pressure of the seven days		29·775
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·788
		Hours.
The total number of hours of bright sunshine		62·7
The maximum possible number of hours of sunshine		82·2
		°
The mean temperature of the seven days		81·8
The average temperature of the corresponding period for 24 years, S.-G.'s Office		82·8
The extreme variation of temperature		14·7
The maximum temperature		89 4
		Miles.
The highest velocity of the wind in one hour		11
		lbs.
The highest pressure of wind on one square foot	Not measurable.	
		%
The mean relative humidity		83
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		81
		Inches.
The total fall of rain from 5th to 11th October 1890		1·17
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		1·73
The total fall from 1st January to 11th October 1890		54·25
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		61·49

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

t, thunder; ≺, lightning; p, passing temporary showers; ≏, dew; 〓, fog; g, gloomy; o, overcast.

J. H. Gilliland,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 13th October 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 5th to 11th October 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
October ...	5th ...	29·799	84·9	91·4	13·1	78·3	87·1	80·5	·953	77·8	74	...
,, ...	6th ...	·838	83·9	91·0	14·2	76·8	87·6	78·5	·854	74·5	66	...
,, ...	7th ...	·874	83·2	90·5	14·7	75·8	87·6	78·5	·854	74·5	66	...
,, ...	8th ...	·854	83·5	91·0	15·0	76·0	86·6	79·5	·914	76·5	72	...
,, ...	9th ...	·842	83·7	90·4	13·4	77·0	86·1	79·5	·920	76·7	74	0·80
,, ...	10th ...	·824	84·2	91·0	13·6	77·4	87·6	79·1	·880	75·3	67	...
,, ...	11th ...	·816	84·0	90·2	12·4	77·8	87·6	79·5	·900	76·0	69	...

	Inches.
The mean 10 A.M. pressure of the seven days	29·835
The mean temperature of the seven days	83·9
The extreme variation of temperature	15·6
The maximum temperature	91·4
	%
The mean 10 A.M. relative humidity of the seven days	70
	Inches.
The total fall of rain from 5th to 11th October 1890	0·80

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 13th October 1890.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of July 1890.

THE deaths registered in forty-five districts in Bengal during the month of July 1890 were 115,581, and correspond to an annual rate of 21· per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is ·24 lower than the average rate of the corresponding months of the past five years 1885—89, and is higher than the rate of the corresponding period of any of the past five years except 1887 and 1889, *vide* the figures below—

	July 1885.	July 1886.	July 1887.	July 1888.	July 1889.	Monthly average of five years, 1885—89.	July 1890.
Ratio of deaths per 1,000 of the population per annum	18·72	16·80	24·84	20·52	25·08	21·24	21·00

The following table shows the highest proportions of deaths registered during the month of July 1890, compared with the corresponding month of 1889 :—

Districts.	Ratio per *mille* during— July 1890.	July 1889.	*Districts.*	Ratio per *mille* during— July 1890.	July 1889.
Darjiling	48·36	54·72	Julpaiguri	32·88	31·44
Patna	33·72	39·12	Balasore	28·68	44·04
Noakhali	33·00	34·32	Khulna	26·40	21·96
Chumparun	33·00	16·92	Gya	25·92	31·08

The total mortality during the month under review from the several registered death causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89 :—

	Ratio per *mille* during— July 1890.	July 1889.	Monthly average of five years 1885—89.
Cholera	1·68	3·48	2·64
Small-pox	·12	·12	·09
Fever	14·76	16·08	13·80
Bowel-complaints	·60	·96	·84
Injury	·72	·84	·72
Other causes	2·88	3·48	2·88

Compared with the figures of July 1889, there is a noticeable reduction in the mortality of July 1890 under the heads cholera and fever.

The highest annual death-rates from the registered death-causes occurred in the following districts :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Chumparun ...	15·48	Darjiling ...	32·28	Darjiling ...	10·32	Poori ...	11·64
Patna ...	8·28	Julpaiguri ...	30·36				
Balasore ...	5·76	Noakhali ...	30·00				
Mozufferpore ...	4·68	Khulna ...	22·20				
Poori ...	4·32	Rajshahye ...	21·48				
Cuttack ...	3·96	Rungpore ...	20·52				
Shahabad ...	3·84						
Gya ...	3·60						
Sarun ...	2·40						
Midnapore ...	2·16						
Durbhanga ...	2·04						

The mortality of the month under review, according to *Sex*, *Class* and *Age*, was distributed as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Rat oper *mille.*	*According to Age.*	Ratio per *mille.*
Males	22·80	Christians ...	15·84	Under 1 year	149·04
Females... ...	19·20	Hindus ...	21·36	1 and under 5 years ...	24·72
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ...	118	Mahomedans ...	20·52	5 „ 10 „ ...	12·48
		Buddhists ...	17·88	10 „ 15 „ ...	10·80
		Other classes ...	17·04	15 „ 20 „ ...	13·80
				20 „ 30 „ ...	12·84
				30 „ 40 „ ...	14·52
				40 „ 50 „ ...	19·56
				50 „ 60 „ ...	27·60
				60 years and upwards ...	46·92

Detailed information regarding the mortuary statistics of the forty-five districts in Bengal during the month under review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 8th October 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of July 1890.

1	2	3			4							5							6		7		8		9
		POPULATION.			MORTALITY ACCORDING TO—																				
					Disease.																		Sex.		
					DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.							COMPARISON WITH PREVIOUS PERIODS.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM.		
DIVISIONS.	DISTRICTS.	Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
BURDWAN ...	Burdwan	666,295	723,528	1,391,823	3	10	1,427	31	69	484	*2,024*	·02	·08	12·24	·24	·48	4·09	*17·40*	15·24	33·28	1,082	942	19·82	15·60	123
	Bankura	507,136	534,616	1,041,752	1	16	1,119	49	50	456	*1,681*	·01	·12	12·72	·48	·48	5·16	*19·32*	15·72	26·40	918	763	21·72	17·04	127
	Birbhum	381,563	412,865	794,428	15	...	871	5	43	528	*1,462*	·12	...	13·08	·07	·60	7·92	*22·08*	19·32	37·08	737	725	23·16	21·00	110
	Midnapore	1,243,195	1,272,370	2,515,565	454	126	5,352	237	134	734	*5,039*	2·16	·60	15·96	1·08	·60	3·48	*24·06*	17·16	22·20	2,719	2,320	26·16	21·84	119
	Hughli	316,685	347,395	663,050	3	14	697	98	34	167	*1,013*	·04	·24	12·60	1·68	·60	3·00	*18·24*	18·24	20·76	541	472	20·52	16·20	126
	Serampore	174,366	177,589	351,955	29	1	383	67	22	105	*607*	·96	·02	12·96	2·28	·72	3·48	*20·64*	15·48	22·44	344	263	23·64	17·76	133
	Total (Hughli including Serampore).	490,051	524,974	1,015,005	32	15	1,080	165	56	272	*1,620*	·36	·12	12·72	1·92	·60	3·12	*19·08*	17·28	21·12	885	735	21·80	16·80	126
PRESIDENCY ...	Howrah	316,479	318,902	635,341	23	27	478	190	31	286	*1,040*	·48	·48	9·00	3·48	·48	5·40	*19·56*	17·40	20·40	567	473	21·48	17·76	120
	24-Pergunnahs ...	960,841	812,521	1,673,362	100	8	1,794	106	113	250	*2,371*	·60	·48	12·84	·72	·72	1·68	*16·92*	15·12	16·44	1,294	1,077	19·00	15·84	113
	Nuddea	905,779	849,942	1,655,721	28	11	1,533	8	131	332	*2,043*	·12	·07	11·04	·04	·84	2·40	*14·76*	13·44	20·28	1,054	989	15·60	13·92	112
	Jessore	969,274	980,104	1,939,375	1	7	3,119	6	171	181	*3,485*	·006	·03	19·20	·03	·96	1·08	*21·48*	17·88	21·24	1,931	1,554	24·12	18·96	127
	Murshidabad ...	586,483	640,307	1,226,790	17	2	1,201	17	89	276	*1,602*	·12	·01	11·64	·12	·84	2·64	*15·60*	15·36	28·29	837	765	17·04	14·28	119
	Khulna	568,402	511,546	1,079,948	68	...	2,003	9	72	224	*2,376*	·72	...	22·20	·09	·72	2·40	*26·40*	19·20	21·91	1,212	1,164	25·56	27·24	93
	Dinajpur	732,292	732,054	1,514,346	3	3	2,493	5	109	116	*2,729*	·01	·01	19·68	·03	·84	·84	*21·60*	24·96	20·64	1,551	1,178	23·76	19·20	123
	Rajshahye	660,716	678,893	1,339,609	6	...	2,411	12	128	92	*2,649*	·04	...	21·48	·09	1·08	·72	*23·64*	22·08	20·76	1,373	1,276	24·84	22·44	110
	Bungpore	1,067,701	1,030,263	2,097,964	6	...	3,580	3	78	148	*3,825*	·02	...	20·52	·01	·36	·84	*21·84*	21·72	19·08	2,215	1,610	24·84	19·72	134
	Bogra	372,193	361,200	733,393	8	6	1,136	7	69	183	*1,414*	·12	·09	19·48	·10	1·08	3·00	*23·04*	20·28	19·80	751	663	24·12	21·96	110
	Pubna	648,311	663,417	1,311,728	2	2	2,065	5	85	118	*2,277*	·01	·01	18·84	·03	·72	·96	*20·76*	20·16	17·40	1,258	1,019	23·28	18·36	126
	Darjiling	89,351	66,294	155,645	1	...	419	135	10	63	*628*	·07	...	32·28	10·32	·72	4·80	*48·36*	46·32	54·72	343	285	45·96	51·48	89
	Julpaiguri	305,972	276,418	582,390	34	...	1,479	4	33	48	*1,598*	·60	...	30·36	·07	·60	·96	*32·88*	33·00	31·44	863	735	33·84	31·80	106
DACCA	Dacca	1,083,863	1,082,467	2,116,350	19	11	1,921	97	149	410	*2,607*	·09	·06	10·80	·48	·84	2·28	*14·76*	14·64	14·52	1,459	1,141	16·92	12·72	133
	Faridpore	865,989	825,745	1,631,734	23	...	1,699	32	115	228	*2,097*	·12	...	12·48	·12	·84	1·56	*15·36*	12 00	13·44	1,178	919	17·52	13·32	131
	Backerganj	973,479	927,410	1,900,889	23	1	2,794	20	101	911	*3,850*	·12	·006	17·52	·12	·60	5 64	*24·24*	20·52	19·56	2,093	1,757	23·52	23·04	109
	Mymensing	1,555,840	1,501,103	3,056,943	45	42	3,851	52	111	475	*4,546*	·12	·12	15·00	·12	·36	1·80	*17·76*	18·24	19·56	2,694	1,942	20·04	15·48	139
CHITTAGONG ...	Chittagong	531,649	600,692	1,132,341	38	1	1,783	43	81	149	*2,095*	·36	·009	18·84	·36	·84	1·56	*22·20*	20·16	20 64	1,035	1,060	24·60	19·92	123
	Noakhali	416,248	405,524	820,772	1	...	2,057	9	63	135	*2,265*	·01	...	30·00	·12	·84	1·92	*33·00*	29·52	34·32	1,188	1,127	32 88	33·24	99
	Tipperah	768,450	745,911	1,514,361	4	...	2,312	10	90	238	*2,654*	·02	...	15·24	·07	·60	1·80	*21·00*	17·76	21·48	1,410	1,244	21·96	19 92	110
PATNA	Patna	856,501	895,058	1,751,559	1,218	76	2,627	183	109	718	*4,931*	8·28	·48	17·88	1·20	·72	4·80	*32·72*	36·48	29·12	2,575	2,356	36·00	31·56	114
	Gya	1,043,441	1,091,241	2,124,682	644	90	3,175	40	156	540	*4,605*	3·60	·48	17 89	·12	·84	2·76	*25·92*	22 32	31 08	2,444	2,161	25·08	23·88	117
	Shahabad	950,259	1,014,659	1,964,909	647	44	2,275	59	107	418	*3,550*	3·84	·24	13·80	·36	·60	2·52	*21·60*	20 88	31·92	1,886	1,664	23·76	19·68	120
PATNA	Monullerpore ...	1,265,731	1,316,329	2,582,060	1,015	16	2,672	152	248	457	*4,540*	4·68	·07	12·36	·60	1 08	2·04	*21·00*	22 32	16·92	2,530	2,010	23·88	18·24	131
	Durbhanga	1,295,788	1,337,659	2,633,447	472	6	2,574	87	253	266	*3,658*	2·04	·02	11 64	·36	1·08	1·20	*16·56*	26·52	19·56	1,983	1,675	18·36	15·00	122
	Sarun	1,085,347	1,199,532	2,285,879	473	37	1,796	267	134	1,199	*3,910*	2·40	·12	9·36	1·32	·72	6 24	*20·52*	42·48	16·92	2,591	2,145	24·36	17·04	143
	Chumparun	870,627	850,981	1,721,608	2,230	127	1,761	34	133	417	*4,736*	15·48	·84	12·24	·24	·84	3·00	*33·00*	42·48	16·92	2,591	2,145	33·64	30·24	117
BHAGULPORE ...	Monghyr	969,124	1,000,650	1,969,774	312	3	2,515	42	185	454	*3,514*	1·80	·01	15·24	·24	1·08	2·76	*21·36*	21·28	35·64	1,857	1,657	22·92	19·80	112
	Bhagulpore	979,119	987,039	1,966,158	221	3	2,337	32	142	461	*3,218*	1·32	·01	14·28	·12	·84	2·76	*19·56*	22·68	28·44	1,617	1,601	19 80	19·44	101
	Purneah	937,060	911,607	1,848,667	18	2	2,140	8	100	36	*2,304*	·10	·01	14·16	·02	·48	1·20	*15·96*	19·80	21·00	510	440	17·64	14·52	121
	Maldah	346,998	363,450	710,448	3	...	840	2	33	73	*950*	·02	...	9·72	·12	·36	1·92	*12·56*	14·04	26·88	1,019	754	15·48	11·52	134
	Santhal Pergunnahs...	785,330	782,763	1,568,093	132	7	1,263	31	58	262	*1,773*	·96	·04	9 72	2·52	·84	4 54	*21·84*	17·58	43·80	1,691	1,592	23 04	20·76	110
CUTTACK	Cuttack	877,702	917,363	1,795,065	593	19	1,457	383	132	649	*3,283*	3·96	·12	8·48	1·68	·84	11·64	*22·92*	22·08	75·48	898	805	24·12	21·72	111
	Poori	446,609	441,878	888,487	324	51	265	125	64	868	*1,700*	4·32	·60	10·56	4·32	·84	6 96	*23·64*	23·58	44·04	1,199	1,069	31·08	26 40	117
	Balasore	461,461	483,819	945,280	458	6	841	342	68	553	*2,264*	5·76	·07	14·76	·48	·48	3·00	*19·32*	19 44	29·40	978	803	21·48	19·96	165
CHOTA NAGPORE.	Hazaribagh	544,903	559,839	1,104,742	47	1	1,362	47	50	279	*1,786*	·48	·01	10 56	1·08	·09	5·04	*17·16*	20·04	23·64	1,201	1,104	18·00	16·20	111
	Lohardugga	796,657	812,587	1,609,244	15	22	1,431	145	13	679	*2,305*	·10	·12	10·92	1·56	1·08	3·96	*18·12*	18·72	24·60	387	301	20·40	15·84	128
	Singbhum	226,681	227,094	453,775	7	11	413	60	42	153	*686*	·12	·24	14·88	·60	·48	4·80	*21·36*	20·64	31·80	971	914	22·08	20·52	107
	Manbhum	525,328	532,900	1,058,228	7	26	1,320	56	50	426	*1,885*	·07	·24												
	TOTAL. FOR THE PROVINCE.	32,663,700	33,195,834	65,859,534	9,797	535	31,068	3,339	4,264	16,290	*115,581*	1·68	·12	14·76	·60	·72	2·88	*21 .00*	20·88	25·08	62,373	53,208	22·80	19·20	118

		10					11					12										13									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		Deaths among—					Ratio per 1,000 of population per annum.					Deaths.										Ratio per 1,000 of population per annum.									
Divisions.	Districts.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	1,663	361	...	...	...	17·76	16·32	...	.....	475	148	84	78	156	254	233	224	134	238	180·96	13·44	6·00	6·26	15·24	11·88	13·46	17·52	16·56	35·88
	Bankura	...	1,464	60	...	157	...	19·20	15·48	...	22·20	445	198	116	73	120	174	146	122	113	184	194·28	18·48	9·24	8·04	15·24	11·64	11·88	21·12	21·72	39·60
	Birbhum	...	1,170	259	...	33	...	22·68	19·08	...	27·36	520	123	77	55	65	140	123	128	91	140	373·80	18·36	9·12	8 16	11·64	12·36	13·00	17·76	18·72	36·36
	Midnapore	...	4,659	274	...	103	49·60	24·96	20·04	...	10·44	829	545	372	212	292	594	588	515	432	664	159·12	23·76	12·84	10·20	15·24	15·00	19·06	26·28	36·24	58·20
	Hughli	...	816	197	...	...	...	18·36	18·12	...	...	182	117	32	29	41	110	130	152	97	140	128·76	23 76	5·52	5·52	8·76	10·08	14·52	20·88	24·24	45·36
	Serampore	...	531	75	...	...	32·76	21·84	15·00	...	...	88	69	54	34	34	57	84	49	48	90	105·36	25·92	19·20	13·32	12·96	9·60	17·28	14·28	28·68	55·44
	Total (Hughli including Serampore).	1	1,347	272	...	...	18 24	19·56	17·16	...	...	270	186	86	63	78	167	214	181	145	230	120·06	24·48	10·08	8·16	10·20	9·96	15·48	18·60	23·76	46·84
	Howrah	3	821	216	...	...	17·52	19·56	19 56	...	...	259	131	73	39	44	100	75	82	67	170	166·80	23·16	11·16	7·56	9·12	9·84	9·48	16·08	21·36	53·56
	24-Pergunnahs	10	1,523	838	...	...	11·76	17·52	16 08	...	...	376	355	271	113	130	237	224	190	172	303	102·36	22·20	14·52	8·40	11·40	9·12	10·80	14·28	21·36	39·00
Presidency	Nuddea	12	947	1,048	...	...	22·32	15·60	14·04	...	...	422	243	169	110	113	190	195	178	139	281	132·84	14·28	7·92	7·56	11·16	8·64	10·20	12·84	15·48	33·52
	Jessore	...	1,406	2,079	...	...	...	21·84	21·24	...	...	466	486	398	218	181	332	356	333	231	484	106·60	25·44	16·44	13·32	14·64	12·24	16·20	20·76	22·08	49·08
	Murshidabad	...	880	722	...	...	...	16·56	14·64	...	...	390	187	112	97	94	131	145	127	124	195	168·00	15·84	7·44	9·48	11·40	7·68	9·84	12·24	19·32	38·12
	Khulna	...	1,030	1,346	...	...	...	23·52	29·04	...	...	330	411	317	144	125	201	189	178	157	324	131·76	37·52	24·96	15·84	15·60	12·60	15·24	21·12	30·36	62·16
	Dinajpur	1	1,266	1,462	...	...	26 16	21·12	21·96	...	...	323	425	245	154	167	359	360	305	178	213	110·64	29 28	11·52	12·36	17·04	16·68	19·08	24·84	28·76	54·24
Rajshahye	Rajshahye	...	509	2,141	...	...	...	21·00	24·36	...	...	409	477	361	166	197	275	265	213	130	192	156·48	35·16	20·16	14·28	19·20	14·28	16·44	19·92	21·84	32·64
	Rungpore	...	1,457	2,368	...	...	...	21 36	22·20	...	...	397	309	200	252	564	589	449	334	385	92·88	17·28	11·76	12·00	19·80	19·20	21·00	25·32	30·48	43·00
	Bogra	...	271	1,143	...	...	...	23·04	23·04	...	...	287	346	181	77	69	143	118	125	64	122	224·64	26·52	17·64	12·72	13·92	13·68	13·44	22·80	21·00	39·72
	Pubna	...	617	1,660	...	...	...	20·40	21·00	...	...	307	228	310	136	124	208	178	184	126	304	101·76	26·52	17·64	14·08	15·72	12·24	11·76	18·12	20·64	41·88
	Darjiling	14	560	26	28	...	199·44	53·16	37·92	17·88	...	69	100	65	37	40	95	95	54	26	48	264·60	73·90	41·76	27·48	36·24	32·52	44·28	47·28	43·96	83·68
	Julpaiguri	...	1,063	533	...	...	...	34·56	30·60	...	...	325	174	92	61	79	182	202	171	143	169	241·44	30·12	12·48	13·00	22·68	22·56	28·56	34·92	50·52	68·76
Dacca	Dacca	14	1,116	1,487	...	...	19·08	15·48	14·16	...	...	387	373	187	107	137	261	283	268	225	489	78·84	15·36	6·60	5·64	10·05	9·36	9·96	13·32	24·00	44·16
	Faridpore	2	952	1,143	...	...	8·64	17·40	14·04	...	...	280	314	156	114	129	192	211	178	174	349	81·92	17·52	7·80	7·80	12·84	8·52	11·28	13·68	21·24	42·72
	Backergunj	9	1,011	2,830	...	...	29·04	19·32	24·76	...	...	893	658	357	169	119	283	263	280	277	551	229·20	31·68	15·96	10·32	8·64	9·84	12·12	19·68	30·72	66·72
	Mymensing	...	1,565	2,897	84	...	...	18 96	16·20	...	38·76	551	601	404	261	244	532	518	413	367	655	84·56	17·52	9·60	10·20	10·68	12·48	14·88	18·72	28·20	48·96
Chittagong	Chittagong	1	502	1,502	90	...	11·28	21·84	22·44	19·92	...	296	376	230	123	104	165	181	148	189	287	107·52	30·60	18·60	10·56	12·96	11·76	15·72	18·24	33·60	55·08
	Noakhali	...	448	1,817	...	...	...	25·92	35·76	...	...	377	457	269	132	84	136	147	146	143	374	194·28	48·84	24·36	17·76	14·52	12·48	16·68	25·08	37·08	104·52
	Tipperah	...	932	1,721	1	...	...	21·96	20·52	32·04	...	464	378	215	158	175	240	208	196	182	438	157·20	21·72	10·92	11·52	16·44	11·52	12·36	17·64	26·40	69·72
Patna	Patna	...	4,418	513	...	...	...	34·44	28·81	...	...	852	950	480	264	180	459	386	371	401	548	237·56	53·76	24·96	18·96	19·08	18 84	18·12	23·64	35·40	54·84
	Gya	...	4,045	560	...	...	...	25·56	28·80	...	...	871	745	372	222	202	389	371	428	379	620	244·32	32·16	15·24	12·96	17·28	13·20	13·84	22·62	31·80	58·68
	Shahabad	...	3,294	356	...	...	...	21·72	20·88	...	...	606	517	346	185	155	401	353	293	287	407	163·00	25·32	15·24	10·80	14·52	14·64	14·16	17·76	23·68	39·40
Patna	Monufferpore	1	4,040	499	...	...	32·16	21·36	18·84	...	...	494	515	412	266	203	536	519	430	445	480	109·08	30·00	13·32	12·36	14·52	15·60	16·20	18·96	31·44	37·28
	Durbhanga	2	3,187	449	...	...	73·80	18·44	16·12	...	...	280	684	408	223	135	400	407	392	315	414	66·72	25·44	12·12	10·56	9·00	11·04	12·12	16·68	22·08	34·32
	Sarun	...	3,493	417	...	...	...	20·76	18·48	...	...	626	648	269	176	135	398	408	342	304	601	140·16	27·72	9·60	8·76	10·92	13·20	13·92	17·04	25·92	53·56
	Chumparun	6	4,617	715	...	...	37·08	32·52	35·16	...	...	379	746	537	304	225	609	544	488	328	576	102·84	44·04	26·40	20·76	23·52	25·20	24·00	32·52	37·80	72·24
Bhagulpore	Monghyr	1	3,173	340	...	...	10·92	21·36	21·72	...	...	715	635	278	198	133	304	260	312	270	420	282·68	30·12	11·04	11·04	11·64	11·64	10·68	18·24	26·64	44·52
	Bhagulpore	1	2,870	347	...	...	29·76	19·44	22·44	...	...	615	511	269	240	136	349	332	240	238	288	200·16	26·64	10·32	11·28	11·52	12·48	13·08	17·64	26·28	36·00
	Purneah	3	1,290	1,012	...	...	73·32	14·28	15·72	...	...	230	225	190	141	1 00	293	347	314	197	267	47·64	12·60	7·92	8·88	8·76	11·28	14·16	20·04	23·52	34·44
	Malidah	...	564	386	...	...	...	17·76	14·04	...	...	143	149	84	72	60	96	101	84	69	92	36·64	21·36	9·24	11·76	12·00	7·84	12·00	15·00	21·84	25·56
	Sonthal Pergunnahs	1	1,033	173	...	566	3·84	14·52	18·96	...	11·76	344	244	158	112	102	196	167	115	134	201	132·12	12·84	6·48	7·44	10·68	10·08	9·48	10·56	20·40	31·20
Orissa	Cuttack	8	3,196	82	...	...	15·36	21·96	20·64	...	...	607	354	192	134	212	350	335	293	335	471	193·92	18·72	8·52	8·28	18·60	13·80	16·68	21·96	34·80	50·16
	Puri	1	1,686	13	...	...	14·64	23·04	11·04	...	...	323	142	88	63	70	192	185	161	177	299	254·88	15·00	8·28	8·40	12·48	14·52	17·64	22·92	35·88	72·60
	Balasore	7	2,210	51	...	...	102·96	26·92	25·68	...	...	514	228	92	83	103	215	246	230	222	330	309·24	24·00	7·80	9·60	34·92	15·72	22·32	29·76	48·48	79·92
Chota Nagpore.	Hazaribagh	1	1,548	206	...	31	21·72	20·04	23·28	...	5·04	441	259	155	74	43	141	141	150	157	225	152·28	19·68	9·96	7·56	6·72	9·36	10·68	18·84	34·08	62·04
	Lohardugga	27	956	134	...	1,188	8·88	13·20	20·76	...	22·68	515	400	246	147	93	175	205	182	160	182	146·08	20·04	10·92	9·72	9·60	7·92	10·92	16·44	25·20	53·60
	Singbhum	3	677	8	...	...	12·00	18·12	41·16	...	...	138	84	65	30	44	8	72	70	56	71	189·48	16·32	10·44	6 96	13·80	9·24	13·44	21·48	29·88	43·68
	Manbhum	3	1,594	67	...	221	65·16	20·16	17·64	...	40·20	477	226	156	101	137	156	164	139	152	187	199·92	19·44	10·20	11·28	18·12	11·04	12·48	19·06	32·28	48·06
	TOTAL FOR THE PROVINCE.	189	76,463	36,467	119	2,383	15·84	21·36	20·52	17·88	17·04	19,227	16,870	10,283	6,083	5,760	11,872	11,585	10,402	8,989	14,510	149·04	24·72	12·48	10·80	13·80	12·84	14·52	19·56	27·60	46·92

Office of Sanitary Commissioner for Bengal,

W. H. Gregg, *Dip. Publ. Health, Camb.*,

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 27th September 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 27th September 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 22·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·3 below the average rate of the corresponding week of the past five years, and is also below the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	28·9	26·9	18·7	27·3	25·7	25·5	22·2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	Towns.	Weeks ending— 6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.
Burdwan	53·4	33·6	21·4	16·8	Naraingunj	29·0	2·7	3·3	47·4
Midnapore	17·0	9·3	13·9	9·3	Chittagong	9·4	9·4	7	11·7
Hughli and Chinsurah	39·4	39·4	39·4	18·1	Comillah	27·0	11·5	19·5	27·0
Serampore	30·3	31·4	45·1	41·2	Patna City	17·2	15·3	14·6	11·4
Utterpara	37·7	37·7	37·7	28·3	Gya	30·1	26·0	42·4	26·0
Howrah	13·2	21·8	21·8	22·9	Arrah	79·0	16·7	57·4	19·1
Bali	10·5	17·5	10·5	17·5	Mozufferpore	25·5	7·3	25·5	24·3
Krishnagar	34·1	26·5	17·0	17·0	Durbhanga	22·0	22·8	57·0	38·5
Ranaghat	6·0	[illegible]	12·0	24·0	Chupra	25·2	28·2	38·2	13·1
Santipore	22·8	26·3	14·0	5·2	Bhagulpore	30·8	30·8	19·9	29·0
Jessore	.....	12·2	.....	12·2	Monghyr	45·2	38·9	46·1	39·8
Rampore Beauleah	34·2	39·4	57·8	57·8	Purneah	20·8	10·4	10·4	10·4
Darjiling	29·6	37·0	37·0	44·5	Poori	10·5	14·7	12·6	12·6
Dacca	11·7	14·9	15·6	21·4	Total ...	26·3	22·0	26·6	22·2

It will be seen that last week the highest birth-rate was returned from Rampore Beauleah (57·8), and the lowest from Santipore (5·2).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22·4 per 1,000 of the population. The rate of the week is 10·5 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	[illegible]	37·4	20·2	32·8	30·8	32·9	22·4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	Towns.	Weeks ending— 6th Sept. 1890.	13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.
Burdwan	16·8	29·0	19·8	[illegible]·4	Naraingunj	16·6	16·6	16·6	4·1
Midnapore	17·0	20·1	17·0	18·6	Chittagong	18·8	9·4	14·1	16·4
Hughli and Chinsurah	18·1	37·7	24·6	21·3	Comillah	19·3	27·0	19·3	15·4
Serampore	43·2	53·0	29·4	49·1	Patna City	26·9	20·4	14·9	19·8
Utterpara	28·3	28·3	28·3	18·9	Gya	58·1	40·3	38·9	39·6
Howrah	10·9	13·7	13·2	14·9	Arrah	29·9	15·6	35·9	33·5
Bali	14·0	10·5	38·6	35·1	Mozufferpore	20·7	24·3	26·8	15·3
Krishnagar	11·4	22·7	11·4	18·9	Durbhanga	39·3	22·8	36·2	33·0
Ranaghat	12·0	6·0	29·9	6·0	Chupra	82·5	39·2	28·2	11·1
Santipore	15·8	19·3	14·0	.....	Bhagulpore	23·5	18·1	17·2	20·8
Jessore	36·7	42·8	18·4	6·1	Monghyr	27·1	21·7	35·3	28·9
Rampore Beauleah	18·4	39·4	31·5	36·8	Purneah	10·4	13·9	17·3	6·9
Darjiling	59·3	14·8	14·8	37·0	Poori	48·3	31·5	21·0	14·7
Dacca	13·0	28·5	21·4	22·1	Total ...	28·4	24·7	23·4	22·4

It will be seen that last week the highest mortality occurred in the town of Serampore (49·1) and the lowest in Narainganj (4·1) No deaths were registered during the week in Santipore town.

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Arrah	4·8	Rampore Beauleah	... 28·9	Serampore ...	... 15·7
Gya	4·1	A[illegible] ...	... 25·1	Dacca ...	... 11·0
Patna City	3·9	G[illegible] ...	... 24·6	Gya ...	... 10·2
Durbhanga	3·9	J[illegible] ...	... 22·2		
		[illegible] ...	... 21·1		

From bowel-complaints high mor[illegible] occurred in the town of Serampore—mortality 15·7 per 1,000 of population.

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1·6 from cholera, against 2·3 per 1,000 in the preceding week; ·04 from small-pox, against *nil*; 10·4 from fever, against 11· ; 3·3 from bowel-complaints, against 2·6; ·3 from injury, against the same ratio; and 6·7 from other causes, against 7·2 in the preceding week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	22·5	Christians ...	22·4	Under 1 year	... 221·2
Females	22·4	Hindus ...	22·2	1 and under 5 years	... 30·8
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	100	Mahomedans ...	23·3	5 „ 10 „	... 12·2
				10 „ 15 „	... 12·4
				15 „ 20 „	... 12·2
				20 „ 30 „	... 11·8
				30 „ 40 „	... 13·9
				40 „ 50 „	... 14·1
				50 „ 60 „	... 26·8
				60 years and upwards	... 45·9

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 13th October 1890.

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,463	16,017	34,080	8	3	11	12·2	4·6	16·8	266	...	...	9	2	...	5	16	...	...	13·7	3·1	...	7·6	24·4	19·8	11	5	31·7	16·2	195
Midnapore ...	Midnapore ...	16,927	16,633	33,560	4	2	6	6·2	3·1	9·3	200	...	...	6	1	...	5	12	...	...	9·3	1·5	...	7·7	18·6	17·0	8	4	24·6	12·5	197
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	3	8	11	4·9	13·1	18·1	37	...	...	6	1	1	5	13	...	...	9·8	1·6	1·6	8·2	21·3	24·6	3	10	9·8	32·9	29
Serampore ...	Serampore ...	13,559	12,937	26,496	16	5	21	31·4	9·8	41·2	320	..	...	8	8	1	8	25	...	...	15·7	15·7	2·0	15·7	49·1	29·4	15	10	57·5	40·2	143
	Utterpara	3,046	2,464	5,510	2	1	3	13·9	9·4	28·3	200	...	...	1	...	...	1	2	...	...	9·4	...	...	9·4	18·9	28·3	1	1	17·1	21·1	81
Howrah ...	Howrah	53,153	37,660	90,813	23	17	40	13·2	9·7	22·9	135	1	...	10	7	...	8	26	·6	...	5·7	4·0	...	4·6	14·9	13·2	13	8	17·6	11·0	160
	Bali	7,836	6,979	14,815	3	2	5	10·5	7·0	17·5	150	...	...	6	2	...	2	10	..	...	21·1	7·0	...	7·0	35·1	38·6	9	1	59·7	7·5	796
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	6	3	9	11·3	5·7	17·0	200	...	...	8	...	...	2	10	...	...	15·1	...	...	3·8	18·9	11·4	5	5	19·6	18·3	107
	Ranaghat	4,028	4,055	8,083	2	2	4	12·0	12·0	24·0	100	...	...	...	...	...	1	1	...	...	...	...	...	6·0	6·0	29·9	1	...	12·9	...	No female death.
	Santipore	13,708	15,979	29,687	2	1	3	3·5	1·7	5·2	200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14·0	...	...	...	...	...
Jessore ...	Jessore	4,830	3,665	8,495	1	1	2	6·1	6·1	12·2	100	...	...	...	...	...	1	1	...	..	..	...	...	6·1	6·1	18·4	..	1	...	11·2	No male death.
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	12	10	22	31·5	26·3	57·8	120	...	...	11	...	...	3	14	...	...	28·9	...	...	7·9	36·8	31·5	4	10	19·3	57·6	33
Darjiling ...	Darjiling	4,579	2,439	7,018	2	4	6	14·8	29·6	44·5	50	...	...	3	..	..	2	5	...	...	22·2	..	...	14·8	37·0	14·8	1	4	11·4	85·3	13
Dacca ...	Dacca	42,782	37,379	80,161	18	15	33	11·7	9·7	21·4	120	1	...	10	6	...	17	34	·6	...	6·5	3·9	...	11·0	22·1	21·4	21	13	25·5	18·1	161
	Narsinganj ...	7,605	4,956	12,561	4	6	10	16·6	24·8	41·4	66	...	...	1	...	..	...	1	...	...	4·1	..	..	..	4·1	16·6	...	1	...	10·5	No male death.
Chittagong ...	Chittagong ...	13,340	8,790	22,130	3	2	5	7·0	4·7	11·7	150	...	...	4	2	..	1	7	...	...	9·4	4·7	...	2·3	16·4	14·1	5	2	19·5	11·8	165
Tipperah ...	Comillah	8,153	5,353	13,506	5	2	7	19·3	7·7	27·0	250	...	...	...	...	...	4	4	...	...	...	...	...	15·4	15·4	19·3	3	1	19·1	9·7	197
Patna	Patna City ...	78,762	81,475	160,237	21	14	35	6·8	4·5	11·4	150	12	...	12	15	2	20	61	3·9	...	3·9	4·9	·6	6·5	19·8	14·9	38	23	25·1	14·7	170
Gya	Gya	38,290	37,831	76,121	22	16	38	15·0	10·9	26·0	137	6	...	36	1	..	15	58	4·1	...	24·6	·7	...	10·2	39·6	35·9	26	32	35·3	44·0	80
Shahabad ...	Arrah	20,960	22,505	43,465	6	10	16	7·2	11·9	19·1	60	4	1	21	2	...	...	28	4·8	1·2	25·1	2·4	...	...	33·5	35·9	13	15	32·3	34·7	94
Mozufferpore .	Mozufferpore ...	23,084	19,658	42,742	12	8	20	14·6	9·7	24·3	150	...	...	4	3	1	5	13	...	...	4·9	3·0	1·2	6·1	15·8	26·8	4	9	9·0	23·8	37
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	25	24	49	19·6	15·9	35·5	104	5	...	21	7	...	9	42	3·9	...	16·5	5·5	...	7·1	33·0	36·2	21	21	32·3	35·8	95
Sarun	Chupra	25,116	26,554	51,670	7	6	13	7·0	6·0	13·1	116	3	...	4	1	...	3	11	3·0	...	4·0	1·0	...	3·0	11·1	28·2	4	7	8·3	13·7	60
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	17	15	32	15·4	13·6	29·0	113	1	...	13	...	..	9	23	·9	...	11·8	...	...	8·1	20·8	17·2	7	16	12·3	29·9	41
Monghyr ...	Monghyr	28,154	29,366	57,520	19	25	44	17·2	22·6	39·8	76	...	...	16	8	1	7	32	...	...	14·5	7·2	·9	6·3	28·9	35·3	16	16	29·6	28·3	104
Purneah ...	Purneah	8,463	6,553	15,016	2	1	3	6·9	3·4	10·4	200	...	...	1	1	...	...	2	...	...	3·4	3·4	...	...	6·9	17·3	1	1	6·1	7·9	77
Poori	Poori	13,247	11,537	24,784	3	3	6	6·3	6·3	12·6	100	...	...	2	...	1	4	7	...	...	4·2	.	2·1	8·4	14·7	21·0	3	4	11·8	18·0	65
	Total ...	550,966	510,588	1,061,574	248	206	454	12·1	10·1	22·2	120	33	1	213	67	7	137	458	1·6	·04	10·4	3·3	·3	6·7	22·4	23·4	238	220	22·5	22·4	100

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	30 and under 40 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	..	13	3	.	...	...	28·5	15 2	...	...	3	...	...	3	1	...	4	...	2	3	236·4	...	...	62·0	16·6	...	30 2	...	42·4	105·3
Midnapore ...	Midnapore ...	...	8	4	...	...	...	16·0	29 8	.	...	2	...	...	1	...	2	2	1	4	..	140·0	...	...	17·1	...	14·2	18·8	14·0	100·8	...
Hushli ...	Hughli and Chinsurah	..	11	2	...	..	...	22·6	16·9	...	...	4	1	2	...	1	...	2	1	2	..	259·0	23·4	36·0	...	20·7	...	18 2	12·5	40·0	...
Serampore ...	Serampore ...	...	23	2	...	..	...	47·4	110·9	...	...	2	2	1	4	...	6	1	3	1	5	146·5	57·6	20·7	93·7	...	57·9	10·5	46·3	27·2	186·9
	Utterpara	...	2	...	..	...	...	19·5	...	...	...	1	...	...	...	...	...	...	...	..	1	323·0	...	...	...	...	...	...	...	...	200·0
Howrah ...	Howrah	1	14	11	...	...	27·5	10·7	25·3	...	...	6	5	...	...	...	5	7	1	1	1	151·2	46·9	...	...	...	11·5	18·9	4·4	9·5	13·9
	Bali	...	8	2	...	...	...	31·0	79·2	...	...	3	...	1	2	...	...	...	1	1	2	430·9	...	48·8	87·6	...	...	...	26·9	49·6	142·1
Nuddea ...	Krishnagar ...	...	9	1	...	...	...	25·1	6·3	...	...	5	1	1	...	...	...	.	1	1	1	524·2	21·1	15·1	...	...	...	...	15·9	24·7	30·1
	Ranaghat	...	1		...	...	...	7·1	...	...	...	1	...	.		...	...	...	...	...	...	251·2	...	...	...	...	...	...	...	...	...
	Santipore	...	...	..	...	...	...	...	.	...	...	...	...	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...
Jessore ...	Jessore	...		1	...	...	...	...	13·6	...	...	1	...	...	...	...	...	...	...	...	...	269·0	...	...	...	...	...	...	...	...	...
Rajshahye ...	Rampore Beauleah	...	7	7	...	...	...	36·7	37·1	...	...	2	3	2	1	1	1	...	2	...	2	256·2	110·0	50·0	28·9	31·3	12·5	..	42·4	...	108·0
Darjiling ...	Darjiling	2	2	1	...	...	650·0	22·6	35·9	...	...	..	1	...	...	...	2	1	..	1	...	...	80·9	...	...	...	52·0	36·3	...	213·1	...
Dacca	Dacca	...	16	18	..	...	...	20·6	23·8	...	...	6	2	1	...	3	5	4	2	5	6	164·4	14·1	5·2	...	21·4	17·0	17·8	12·4	54·9	56·0
	Naraingunj ...	...	...	1	...	...	...	...	8·4	...	...	...	1	...	...	...	...	...	...	...	...	...	91·2	...	...	...	...	...	...	...	...
Chittagong ...	Chittagong ...	...	1	6	...	...	...	9·0	20·4	...	...	1	1	...	1	...	1	...	1	2	...	92·4	26·4	..	20·2	...	11·2	...	23·0	95·9	...
Tipperah ...	Comillah	...	...	4	...	...	...	...	28·1	...	...	3	..	..	..	...	...	...	1	...	...	525·3	...	...	...	...	...	...	39·6	...	...
Patna	Patna City ...	...	44	17	...	...	...	19·2	21·6	...	...	15	6	4	4	3	3	5	6	4	11	191·0	21·4	12·4	14·4	14·0	5·4	11·2	16·6	14·7	41·4
Gya ...	Gya	...	53	5	...	...	...	45·9	16·2	..	..	15	8	3	2	1	3	6	4	8	8	435·8	65·5	22·3	15·5	9·9	10·6	24·5	21·3	63·3	80·8
Shahabad ...	Arrah	..	16	12	...	...	...	26·8	50·3	...	...	2	3	3	3	3	5	2	1	2	4	80·7	35·2	30·4	35·3	48·6	33·1	16·2	11·1	33·6	72·1
Mozufferpore ...	Mozufferpore ...	...	10	3	...	...	...	17·3	12·5	...	...	7	1	...	..	...	1	2	.	.	2	351·2	12·9	...	...	...	6·1	14·9	...	...	42·7
Durbhanga ...	Durbhanga ...	..	30	12	...	...	.	32 2	35·5	...	...	9	6	5	2	1	5	2	3	4	5	300·6	41·0	31·2	18·7	12·9	19·5	9·3	21·0	47·4	81·4
Saran	Chupra	...	.	2	...	...	...	11·8	8·7	...	...	4	1	1	...	1	2	1	...	1	...	147·4	10·1	8·7	...	15·0	11·3	6·7	...	12·6	...
Bhagulpore ...	Bhagulpore ...	...	10	13	...	...	...	13·1	39·2	...	...	8	5	...	...	1	3	3	1	...	2	348·4	43·0	...	...	12·4	14·3	16·8	8·3	..	28·9
Monghyr ...	Monghyr	...	28	4	...	...	...	32·6	16·5	...	...	6	8	2	...	2	4	4	1	1	4	210·1	66·8	14·7	...	27·5	20·1	23·3	8·2	13·1	58·0
Purneah ...	Purneah	...	1	1	...	...	...	5·7	9·2	...	...	1	...	...	.	1	...	...	...	...	...	183·7	...	...	...	52·3	...	...	...	...	...
Poori ...	Poori	...	7	.	...	...	..	14 8	...	...	...	1	...	...	...	...	...	1	4	...	1	171·6	...	...	...	...	...	12·8	63·6	...	28·8
	TOTAL ...	3	323	132	...	...	22·4	22·2	23·3	...	...	108	55	26	23	19	48	47	34	40	58	221·2	30·8	12·2	12·4	12·2	11·8	13·9	14·1	26·8	45·9

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.*,

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of July 1890.

Date.	River Ganges.																River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beauleah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
	Miles. 86		134	46	90		177	87	287	110	381	94	471	90	591	120						
	Distance. From Allahabad ...		From Allahabad ...	From Mirzapur ...	From Benares		From Benares	From Buxar ...	From Benares	From Dinapur	From Benares	From Monghyr	From Benares	From Sahebgunge ...	From Benares	From Rampore Beaulenh ...						
	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
1st	31·50	237·72	29·75	226·55	25·00	194·05	25·60	159·83	19·67	121·52	15·50	83·50	15·00	57·00	17·83	26·77	18·75	52·49	18·25	22·55	25·00	173·76
2nd	28·00	234·22	26·00	222·80	24·50	193·55	25·50	159·73	19·50	121·35	18·00	86·00	16·25	58 25	18·75	27·69	20·17	53·91	18·13	22·43	24·10	172·86
3rd	27·00	233·22	25·00	221·80	23·00	192·05	24·75	158·98	19·25	121·10	18·83	86·83	17·00	59·00	19·50	28·44	21·00	54·74	18·88	23·18	23·60	172·36
4th	26·50	232·72	24·00	220·80	21·75	190·80	23·70	157·93	18·83	120·68	19·17	87 17	17·13	59·13	19·50	29·44	21·50	55·24	20·00	24·30	23 10	171·86
5th	26·00	232·22	25·00	221·80	21·58	190·63	23·20	157·43	18·50	119·52	18·50	86·50	17·21	59·21	19·33	29·27	21·92	55·66	20·58	24·88	22·80	171·56
6th	25·50	231·72	24·50	221·30	21·67	190·72	23·15	157 38	16·75	118·60	17·67	85 67	16·83	58·83	19·33	29·27	21·42	55·16	20·50	24·80	22·50	171·26
7th	25·25	231·47	24·50	221·30	21·67	190·72	23·70	157·93	16·50	118·35	16·67	84·67	16·58	58·58	19·17	29 11	20·33	54·57	20·58	24·88	22·50	171·26
8th	27·83	234·05	26·00	222·80	22·00	191·05	23·70	157·93	17·09	118·93	16·50	84·50	16·17	58·17	19 17	29·11	20·50	54·24	20·33	24·63	22·70	171·46
9th	27·83	234·05	26·00	222·80	22·83	191·88	24·00	158·23	17·33	119·18	16·83	84·83	15·92	57·92	19·08	28·02	20 67	54·41	20·08	24·38	22·90	171·66
10th	26·00	232·22	24·00	220·80	22·67	191·72	24·50	158·73	17·75	119·60	17·00	85·00	16·25	58·25	19 25	28·19	20·75	54·49	19·92	24·22	23 00	171·76
11th	24·17	230·39	23·00	219·80	22·00	191·05	24·50	158·73	17·92	119·77	17·00	85 00	16·46	58 46	19·33	28·27	20·83	54·57	19·83	24·13	23·60	172·36
12th	23·83	230·05	22·00	218·80	21·17	190·22	25·00	159·23	18·08	119·93	17·42	85·42	16·79	58·79	19·30	28·24	20·38	54·91	20·38	24·68	24·00	172·76
13th	22·67	228·89	21·00	217·80	20·83	189·88	25·40	159·63	18·58	120·43	17·92	85·92	17·00	59 00	19·33	28·27	20·71	55·16	20·71	25·01	24·40	173·16
14th	23·83	230·05	23·00	219·80	20·17	189·22	24·70	158·93	19·08	120·93	18·50	86·50	17·38	59·38	19·50	28·44	21 83	55·57	21·17	25·47	24·70	173·46
15th	27·75	233·97	25·50	225·30	22·83	191·88	25·30	159·53	18·67	120·52	18·50	86·50	17·58	59·58	19·61	28·61	22·25	55·99	21·58	25·88	25·20	173·96
16th	27·50	233·72	26·00	222·80	24·67	193·72	26·30	160·63	18·75	120·60	18·08	86·08	17·79	59·79	19·83	28·77	22·42	56·16	21·83	26·13	25·40	174·16
17th	29·50	238·72	28·00	224·80	24·25	193·30	26·00	160·23	20 25	122·10	18·25	86 25	17·88	59·88	20·00	28·94	22·50	56·24	22·00	26 30	25·80	174·56
18th	30·00	236·22	29·00	225·80	24·83	193·88	26·70	160·93	20·58	122·43	19·00	87·00	18·17	60·17	20·00	28·94	22 75	56·49	21·92	26·22	25·80	174·56
19th	30·50	236·72	29·00	225·80	25·58	194·63	26·70	160·93	20·83	122·68	19·50	87 50	18·67	60·67	20·00	28·94	23·33	57·07	22·67	26·97	25·60	174·34
20th	31·50	237·72	30·33	227·13	25·92	194·97	27·40	161·63	21·50	123·35	19·92	88 92	19·08	61·08	20·33	29 27	23·83	57·57	23·04	27·34	25·90	174·66
21st	31·25	237·47	30·06	227·46	26·25	195·30	27·60	161·83	22·08	123·93	20 33	88·33	19 46	61·46	20·67	29·61	24·25	57·99	23·63	27·93	26·20	174·96
22nd	30·50	236·72	29·50	226·30	25·83	194·88	27·70	161·93	22·50	12 ·35	20·75	88·75	19·83	61·83	20·75	29·69	24·58	58·32	23·91	28·26	26·10	174·86
23rd	30·50	236·72	29·50	226·30	25·92	194·97	28·60	162·83	22·50	124·35	21·08	89·08	20·25	62·25	20·83	29·77	24·92	58 66	24·17	28·47	26·20	174·96
24th	30·75	234·97	29·50	226·30	26·25	195·30	28·90	163·13	23·42	125 27	21·75	89·75	20·63	62·63	20·92	29·86	25 50	59·24	24·50	28·88	26·10	174·86
25th	31·00	237·22	30·00	226·80	26·58	195·63	29·30	163·53	24·00	125·85	22·50	90·50	21·00	63·00	20·92	29·86	25·83	59·57	24·75	29 05	26·10	174·86
26th	30·75	236·97	29·50	226·30	26·58	195·63	29·70	163·93	24·67	126·52	22·83	90·83	21·50	63·50	20·92	29·86	26·08	59·82	24·92	29 22	26·40	175·16
27th	31·50	237·72	30·00	226·80	26·67	195 72	29·60	163·83	25·25	127·10	23·83	91·83	22·04	64·04	21·08	30·02	26·58	60·32	25·17	29·47	26·40	175·16
28th	30·25	236·47	29·75	226·55	26·75	195·80	29·35	163·58	25·17	127·02	23·33	91·33	22·58	64·58	21·25	30·19	26·92	60·66	25·50	29·80	26·50	175·26
29th	29·50	235·72	29·25	225·05	26·33	195·38	29·30	163·53	25·17	127·02	24·17	92 17	22·96	64·96	21·50	30·44	27·42	61·16	25·83	30·13	26·70	175·46
30th	27·00	233·22	27·50	224·30	25·33	194·88	29·20	163·43	25·42	127·27	24·17	92·17	23·33	65·33	21·50	30·44	27·75	61·49	26·04	30·34	27·00	175·76
31st	27·00	233·22	27·00	223·80	25·58	194·63	29·20	163·43	25·42	127·27	24 50	92·50	23 58	65·58	21·58	30·52	28·08	61·82	26·25	30 55	26·70	175·46

CALCUTTA,
The 11*th October* 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of July 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								GRAND TOTAL.	Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual leases.							During month.	Up to end of month.	During month.	Up to end of month.	
										Kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot-weather.	Total.						
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.	
ORISSA	Cuttack	Taldunda, 1st reach	1,342	356	140	10,217	9,270	.....	10,082	.....	.....	.....	.....	.....	.....	10,082	16·90	28·88	18·07	28·07	
		Ditto, 2nd ,,	566	125																	
		Machgong	776	183	183	37,409	27,171	.....	22,626	.....	.....	.....	.....	.....	.....	22,626	17·02	33·20	15·75	30·50	
																	15·60	27·70	23·85	37·31	
		Kendrapara	1,067	609·49	522·47	37,865	38,018	.....	48,450	.....	270	.....	.....	.....	270	48,720	8·63	18·34	14·86	30·76	
	Balasore	Gobri	372·82	41·44	40·26	1,921	950	.....	2,287	.....	.....	.....	.....	.....	.....	2,287	11·35	16·77	15·43	31·12	
		Do. extension	648	54	54	2,500	1,450	.....	2,147	.....	.....	.....	.....	.....	.....	2,147	No gauge fixed.				
		Patamoondi	885	256	201	3,626	3,814	.....	10,209	.....	.....	.....	.....	.....	.....	10,209	.....	.....	.....	.....	
		High Level, Range I	668	322·89	279·19	16,044	13,035	.....	25,033	.....	86	5	.....	.....	91	25,129	7·35	24·15	7·40	20·95	
		Ditto, ditto II	727·16	*	*	2,161	2,057	.....	2,456	.....	29	.....	.....	.....	29	2,485	.....	.....	.....	.....	
		Ditto, ditto III	727·16	*	*	31,726	19,690	.....	34,400	.....	.....	141	.....	.....	141	34,541	7·28	20·11	6·97	21·07	* Figures for these will be reported later on.
		Total	.....	.....	.....	133,469	120,445	.....	157,695	.....	385	146	.....	.....	531	158,226	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	139,756	.....	5,888	155	.....	.....	6,043	145,799	.....	.....	.....	.....	
SOUTH-WESTERN.	Midnapore	Midnapore	1,411	756	593	62,644	54,773	.....	65,404	.....	.....	.....	.....	.....	.....	65,404	6·08	30·03	7·82	21·13	Whole month discharging.
	Howrah	Panchkoorah	522	79	69	3,678	2,407	.....	3,668	.....	.....	.....	.....	.....	.....	3,668	5·87	26·79	7·24	22·76	21 Days discharging.
		Tidal reaches, Ranges I-II	.....	.....	.....	93	357	.....	356	.....	.....	.....	.....	.....	.....	356	.....	.....	.....	.....	
		Total	.....	.....	.....	66,415	57,537	.....	69,458	.....	.....	.....	.....	.....	.....	69,458	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	56,105	.....	.....	.....	.....	.....	.....	56,105	.....	.....	.....	.....	
SONE	Shahabad	Western Main	4,342	1,758	53	9,330	9,412	11,560	.....	1,235	.....	215	.....	309	1,759	13,319	14·04	23·07	13·98	24·13	
		Buxar	1,226	435	241	41,760	33,567	51,474	.....	1,646	.....	1,093	48	2,564	5,351	56,825					
		Arrah	2,000	1,090	776	92,456	99,170	90,209	.....	7,018	.....	2,212	69	5,668	14,967	105,176	26·25	38·41	11·06	21·07	
	Patna and Gya.	Eastern Main	1,466	676	480	1,040	524	1,132	.....	.....	.....	8	.....	.....	8	1,140	19·50	34·44	11·47	23·03	
		Patna				35,675	33,137	37,906	.....	5,791	.....	401	84	.....	6,276	44,182					
		Total	.....	.....	.....	180,261	175,800	192,281	.....	15,690	.....	3,929	201	8,541	28,361	220,642	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	160,242	.....	46,735	.....	4,401	437	11,370	63,143	223,385	.....	.....	.....	.....	
		Grand Total	.....	.....	.....	380,145	353,782	192,281	227,153	15,690	385	4,075	201	8,541	28,892	448,326	.....	.....	.....	.....	
		Grand Total of the corresponding period of last year	.....	.....	.....	.....	.....	160,242	195,861	46,735	5,888	4,556	437	11,370	69,186	4,25,289	.....	.....	.....	.....	

CALCUTTA,
The 11th October 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing Quantities of Goods carried during the month of August 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
783	1. Grain ...	684	15,805	16,489	11,89,467	16,489	11,89,467	
2	2. Cotton ...	.....	35·7	35·7	2,440	35·7	2,440	
286	3. Oilseeds ...	162·11	7,480·66	7,642·77	7,82,800	7,642·77	7,82,800	
490	4. Salt ...	5,988	575·48	6,563·48	6,62,278	6,563·48	6,62,278	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
52	6. Metal ..	379	50	429	72,912	429	72,912	
34	7. Building materials	150·5	180·62	331·12	3,797	331·12	3,797	
1,840	8. Miscellaneous ...	14,190·59	26,955	41,145·59	52,39,372	41,145·59	52,39,372	
77	9. Fuel ...	2,922·4	145	3,067·4	29,073	3,067·4	29,073	
Raft 1	10. Timber ...	247 c. ft.	.....	247 c. ft.	370	247 c. ft.	370	
Rafts 5	11. Bamboos ...	16 „	4,220 c. ft.	4,236 „	383	4,236 „	383	
3,564 & 6 rafts.	12. Total ...	24,476·60 & 263 c. ft.	51,227·46 & 4,220 c. ft.	75,704·06 & 4,483 c. ft.	79,82,892	75,704·06 & 4,483 c. ft	79,82,892	
3,812 & 8 rafts.	13. Total of same month last year	23,177 & 302 c. ft.	49,773 & 4,677 c. ft.	72,950 & 4,979 c. ft.	70,44,947	72,950 & 4,979 c. ft.	70,44,947	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,304	2,260	3,564
14*a*. Empty boats, steamers, &c. No.	970	125	1,095
15. Total number of boats plying passenger No.	1,708	1,245	2,953
15*a*. Empty boats „	182	19	201
16. Total registered tonnage, cargo Tons	59,831·63	1,03,608	163,439·63
17. Total registered tonnage, passenger Tons	2,174	1,533	3,707
18. Ton-mileage	.....	.....	.....
19. Estimated value of cargo Rs.	39,20,218	40,61,921	79,82,139
20. Number of passengers No.	4,123	1,368	5,491
21. Rafts, bamboos C. ft.	16	4,220	4,236
22. Do., bullahs „	247	... ..	247
23. Estimated value of rafts Rs.	372	381	753
24. Tollage on boats „	14,982-9-6	21,979-5-6	36,961-15-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	1-14-0	5-4-0	7-2-0
27. Total tollage on boats per ton-mile* ...	.....	.....	.....
28. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-2-6

	Rs. A. P.
Total tollage of month—24+25+26 ...	36,969 1 0
Total tollage of same month last year ...	37,007 15 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	1,557 9 6
2. Tollage per month ...	36,969 1 0
3. Total ...	38,526 10 6
4. Amount paid into treasury during the month ...	36,616 0 6
5. Balance due at the end of the month ...	1,910 10 0

* Boats in these rivers do not pay per mile.

Abstract for the month of August 1890 *as compared with the corresponding month of the previous year.*

	1890-91. During the month.	1890-91. To end of the month.	1889-90. During the month.	1889-90. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
llage	36,969 1 0	91,152 0 6	37,007 15 6	89,099 3 9

CALCUTTA,
The 11th October 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of August 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
204	1. Grain ...	1,876	257	2,133	1,29,277	2,133	1,29,277	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
2	3. Oilseeds ...	15	.....	15	1,265	15	1,265	
34	4. Salt ...	.....	303	303	34,800	303	34,800	
8	5. Piece-goods ...	.....	20	20	37,700	20	37,700	
4	6. Metal ...	64	.....	64	14,020	64	14,000	
9	7. Building materials	6	15	21	132	21	132	
562	8. Miscellaneous ...	356	472	828	2,56,476	826	2,56,351	
10	9. Fuel ...	1	158	159	1,963	119	1,488	
6 rafts	10. Timber ...	452 c. ft.	.....	452 c. ft.	409	452 c. ft.	409	
1 raft	11. Bamboos ...	25 „	.....	25 „	2	25 „	2	
833 & 7 rafts	12. Total ...	2,318 & 477 c. ft.	1,225	3,543 & 477 c. ft.	4,76,044	3,501 & 477 c. ft.	4,75,424	
594 & 5 rafts	13. Total of same month last year.	973 & 822 c. ft.	1,211	2,184 & 822 c. ft.	1,80,942	2,130 & 822 c. ft.	1,78,693	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	326	507	833
15. Total number of boats plying passenger No.	86	66	152
16. Total registered tonnage, cargo Tons	4,662	4,013	8,675
17. Total registered tonnage, passenger Tons	881	823	1,704
18. Ton-mileage ...	183,733	163,138	346,871
19. Estimated value of cargo Rs.	1,17,940	3,57,693	4,75,633
20. Number of passengers No.	1,465	1,630	3,095
21. Rafts, bamboos C. ft.	25	.....	25
22. Do., bullahs „	452	.....	452
23. Estimated value of rafts Rs.	411	.....	411
24. Tollage on boats „	3,236-5-3	2,873-7-0	6,109-12-3
25. Compounded tollage on boats Rs.	.....	3-8-0	3-8-0
26. Tollage on rafts „	3-15-0	.....	3-15-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-13-2

	Rs. A. P.
Total tollage of month—24+25+26 ...	6,117 3 3
Total tollage of same month last year ...	4,509 12 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	4,592 9 9*
2. Tollage per month ...	6,117 3 3
3. Total ...	10,709 13 0
4. Amount paid into treasury during the month ...	5,283 14 0
5. Balance due at the end of the month ...	5,425 15 0

* The difference of Rs. 728-1-0, being the tollage paid by Messrs Hoare, Miller & Co., for February 1890, adjusted in April 1890, is now written back as per Examiner of Public Works Accounts, Bengal's No. 3217 of 8th September 1890.

Abstract for the month of August 1890 as compared with the corresponding month of the previous year.

	1890-91.		1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	6,117 3 3	29,766 12 6	4,509 12 9	25,056 5 9

CALCUTTA,
The 11th October 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of August 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
410	1. Grain ...	5,802	.....	5,802	5,65,484	5,802	5,65,484	
2	2. Cotton ...	9	.....	9	4,750	9	4,750	
41	3. Oilseeds ...	596	33	629	74,862	629	74,862	
280	4. Salt ...	562	4,751	5,313	4,83,518	5,313	4,83,518	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.....	6. Metal ...	.....	.....	...	...	.....	.....	
77	7. Building materials	1,779	67	1,846	28,404	1,846	28,404	
1,355	8. Miscellaneous* ...	6,572	1,107	7,679	8,37,932	7,679	8,37,932	
538	9. Fuel ..	9,184	3,007	12,191	89,749	12,191	89,749	
.....	10. Timber ...	...	.....	.....	.....	.....	.....	
.....	11. Bamboos ...	...	.....	...	.....	.....	.....	
2,703	12. Total ...	24,504	8,965	33,469	20,84,699	33,469	20,84,699	
2,647 1 raft	13. Total of same month last year.	24,813 & 500 c. ft.	6,934	31,747 & 500 c. ft.	21,26,970	31,747 & 500 c. ft.	21,26,970	

* For details, see next page.

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	2,279	424	2,703
14*a*. Empty ...	1,354	518	1,872
15. Total number of boats plying passenger No.	458	7	465
16. Total registered tonnage, cargo Tons	78,580	21,804	1,00,384
17. Total registered tonnage, passenger Tons	816	17	833
18. Ton-mileage ...	648,260	218,040	866,300
19. Estimated value of cargo Rs.	14,11,779	6,72,920	20,84,699
20. Number of passengers No.	1,689	60	1,749
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs ,,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats ,,	15,723-9-9	5,346-6-0	21,069-15-9
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4·66
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24+25+26 ...	21,069 15 9
Total tollage of same month last year ...	20,621 2 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	651 3 6
2. Tollage per month ...	21,069 15 9
3. Total	21,721 3 3
4. Amount paid into treasury during the month ...	20,459 5 9
5. Balance due at the end of the month ...	1,261 13 6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
204	(*a*) Jute ...	2,378	.....	2,378	1,99,725	2,378	1,99,725	
59	(*b*) Jaggery ...	530	26	556	62,300	556	62,300	
6	(*c*) Sugar ...	37	.....	37	9,450	37	9,450	
3	(*d*) Tobacco ...	14	1	15	2,975	15	2,975	
290	(*e*) Fish ...	70	3	73	20,365	73	20,365	
16	(*f*) Hides ...	27	.....	27	6,152	27	6,152	
97	(*g*) Poultry ...	21	.....	21	17,246	21	17,246	
36	(*h*) Hay and straw ...	324	.....	324	6,803	324	6,803	
55	(*j*) Oil ...	.....	883	883	1,23,625	883	1,23,625	
56	(*k*) Earthenware ...	131	.....	131	1,834	131	1,834	
533	(*m*) Other miscellaneous ...	3,040	194	3,234	3,87,457	3,234	3,87,457	
1,355	Total Miscellaneous...	6,572	1,107	7,679	8,37,932	7,679	8,37,932	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of August 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,205	1. Grain ...	5,680	.....	5,680	4,99,573	5,680	4,99,573	* For details, see next page.
8	2. Cotton ...	38	.....	38	20,235	38	20,235	
34	3. Oilseeds ...	759	.....	759	75,625	759	75,625	
104	4. Salt ...	548	693	1,241	1,12,937	1,241	1,12,937	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....	
503	7. Building materials	5,289	.....	5,289	20,963	5,289	20,963	
836	8. Miscellaneous* ...	3,203	45	3,248	3,40,439	3,248	3,40,439	
168	9. Fuel ...	2,557	.....	2,557	19,458	2,557	19,458	
rafts.	10. Timber ...	120 c. ft.	625 c. ft.	745 c. ft.	1,862	745 c. ft.	1,862	
„	11. Bamboos ...	125 c. ft.	.....	125 „	15	125 „	15	
38 & rafts.	12. Total ...	18,074 & 245 c. ft.	738 & 625 c. ft.	18,812 & 870 c. ft.	10,91,107	18,812 & 870 c. ft.	10,91,107	
17 & rafts.	13. Total of same month last year ...	15,218 & 294 c. ft.	443	15,661 & 294 c. ft.	8,96,863	15,661 & 294 c. ft.	8,96,863	

	Up.	Down.	Total.
Total number of boats plying cargo ... No.	2,758	100	2,858
Empty „	1,061	97	1,158
Total number of boats plying passenger ... No.	326	7	333
Total registered tonnage, cargo ... Tons	51,714	2,230	53,944
Total registered tonnage, passenger ... Tons	647	15	662
-mileage	415,793	35,680	451,473
mated value of cargo Rs.	10,18,696	70,534	10,89,230
ıber of passengers No.	2,347	41	2,388
s, bamboos C. ft.	125	.....	125
, bullahs „	120	625	745
mated value of rafts Rs.	315	1,562	1,877
ıge on boats „	7,619-0-6	550-5-0	8,169-5-6
pounded tollage on oats ... Rs.	.....	.....	.....
ıge on rafts „	0-14-0	7-8-0	8-6-0
l tollage on boats per n-mile Rs.	.....	.....	0-0-3·47
Tollage on rafts per 100 ubic feet ... Rs.	.....	.....	0-15-4

	Rs. A. P.
Total tollage of month—24+25+26 ...	8,177 11 6
Total tollage of same month last year ..	7,239 3 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	304 3 9
2. Tollage per month ...	8,177 11 6
3. Total	8,481 15 3
4. Amount paid into treasury during the month ...	7,978 11 3
5. Balance due at the end of the month ...	503 4 0

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
43	(*a*) Jute ...	265	... ..	265	22,230	265	22,230
61	(*b*) Jaggery ...	429	13	442	55,687	442	55,687
... .	(*c*) Sugar ...	.....	.....	.. ...	.....	.....	.....
14	(*d*) Tobacco ...	116	22	138	26,950	138	26,950
168	(*e*) Fish ...	9	2	11	3,136	11	3,130
... ..	(*f*) Hides ...	.....	.....	... ..	.....	.....	.....
12	(*g*) Poultry ...	7	.....	7	1,590	7	1,590
183	(*h*) Hay and straw...	428	.....	428	9,000	428	9,000
36	(*j*) Oil ...	308	.....	308	43,125	308	43,12[illegible]
100	(*k*) Earthenware ...	41	.....	41	601	41	6[illegible]
219	(*m*) Other miscellaneous.	1,600	8	1,608	1,78,120	1,608	1,78,[illegible]
836	Total Miscellaneous..,	3,203	45	3,248	3,40,439	3,248	3,[illegible]

ABSTRACT FOR THE MONTH OF AUGUST 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1890-91.		Traffic, 1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta and Eastern Canals ...	21,069 15 9	91,064 7 6	20,621 2 6	99,736 15 0
Tolly's Nullah	8,177 11 6	40,496 3 0	7,239 3 0	33,626 0 6
Total ...	29,247 11 3	1,31,560 10 6	27,860 5 6	1,33,362 15 6

CALCUTTA,
The 11th October 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 11th October 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 11th October 1890.			Week ending Saturday, the 12th October 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	544	82,200	1,270	388	1,01,935	1,640
Jute	413	2,02,825	3,599	159	84,450	1,442
Firewood	147	80,925	1,041	207	1,06,950	1,370
Other articles	1,202	3,52,275	3,716	924	1,72,415	2,363
Total ...	2,306	7,18,225	9,626	1,678	4,65,750	6,815

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of August 1890, as compared with the same month of the previous year.

Staples.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	1,185	.....	294	.....	1,185	294	.....	891
Cotton, raw	7	.....	.....	.....	7	.....	.....	7
Cotton piece-goods—								
1.—European	13	.....	.....	.....	13	.....	.....	13
Grains—								
2.—Rice	59	27	196	25	86	191	105	.....
3.—Gram	.....	.....	.....	2	.....	2	2	.....
4.—Others	48	1	69	1	19	70	21	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	.....	.....	4	.....	4	4	.....
2.—Skins of sheep, goats and small animals—								
a.—Dressed	.....	1	.....	.....	1	.....	.....	1
Jute—								
2.—Gunny-bags and cloths	4	.....	1	.....	4	1	.....	3
Lac—								
1.—Stick	.....	.....	.....	1	.....	1	1	.....
Metals—								
2.—Iron	1	.....	.....	.....	1	.....	.....	1
4.—Others	3	3	.....	2	6	2	.....	4
Oils—								
1.—Castor	1	.....	3	.....	1	3	2	.....
2.—Kerosine	3	.....	5	2	3	7	4	.....
3.—Others	3	.....	.....	.....	3	.....	.....	3
Oilseeds—								
2.—Mustard and rape	41	.....	107	.....	41	107	66	.....
Provisions—								
1.—Ghee	3	.....	1	.....	3	1	.....	2
3.—Others	2	4	3	3	6	6	.....	.....
Railway plant and rolling-stock ...	24	16	18	5	40	23	.....	17
Salt	69	.....	81	.....	69	81	12	.....
Silk, raw—								
2.—Indian	1	33	1	9	34	10	.....	24
Silk piece-goods—								
2.—Indian	.....	2	.....	.....	2	.....	.....	2
Sugar—								
1.—Drained	10	.....	.....	.....	10	.....	.....	10
2.—Undrained	12	.....	23	.....	12	23	11	.....
Tobacco	4	.....	.....	.....	4	.....	.....	4
Timber	.....	.....	17	2	.....	19	19	.....
All other articles of merchandise	118	14	57	16	132	73	.....	59
Total ...	1,611	101	846	72	1,712	918	247	1,041

Increase.	Tons.
Grains—	
(2) Rice	105
Due to greater export from intermediate stations.	
(4) Others	21
Due to greater export of paddy from intermediate stations.	

	Tons.
Oil-seeds—	
(2) Mustard and rape	66
Due to high demand.	
Salt	12
Due to greater import.	
Sugar—	
(2) Undrained	11
Due to high demand.	
Timber	19
Due to there being no traffic under this head last year.	
DECREASE.	
Coal	891
Due to less import owing to the stoppage of goods traffic on account of flood.	
Cotton piece-goods—	
(1) European	13
Due to less import owing to the stoppage of goods traffic on account of flood.	
Railway plant and material	17
Due to less import owing to the stoppage of goods traffic on account of flood.	
Silk, raw—	
(2) Indian	24
Due to less import owing to the stoppage of goods traffic on account of flood.	
Sugar—	
(1) Drained	10
Due to less import owing to the stoppage of goods traffic on account of flood.	

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, on 1,525⅓ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	215,179	2,35,474 8 0	19,45,540 30	4,55,316 1 0	17,383 3 10	7,08,173 12 10	64,319	78,811⅓	143,130⅓
Or per mile of railway	.....	154 5 9	.....	298 7 6	11 6 4	464 3 7	.....	.....	.....
For previous 12 weeks of half-year	2,861,416	28,33,150 7 0	2,39,42,826 20	53,13,316 6 6	2,07,445 15 10	83,53,912 13 4	805,240⅔	984,811⅓	1,790,052⅓
Total for 13 weeks ...	3,076,595	30,68,624 15 0	2,58,88,367 10	57,68,632 7 6	2,24,829 3 8	90,62,086 10 2	869,559⅔	1,063,623⅓	1,933,183
COMPARISON.									
Total for corresponding week of previous year	243,482⅓	2,48,949 11 0	14,54,238 20	3,50,716 13 0	16,296 1 10	6,15,962 9 10	66,044	64,652	130,696
Or mile of railway corresponding week of previous year ...	.....	163 3 1	.....	229 14 5	10 10 11	403 12 5	.....	.....	.....
Total to corresponding date of previous year	3,348,780⅓	33,42,210 8 1	2,01,29,313 10	61,13,951 9 5	2,31,576 11 4	96,87,738 12 10	914,572	1,118,236	2,032,808

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 5th October 1889.			Receipts for week ending 4th October 1890.			Total receipts from 1st April 1889 to 5th October 1889.			Total receipts from 1st April 1890 to 4th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	6,15,963	404	1,525½	7,08,174	464	1,525½	2,17,14,490	527	1,525½	2,01,81,017	490	.....	15,33,473

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,700	8,850 11 0	21,265 30	1,854 6 0	28 4 0	10,733 5 0	2,447	459	2,90
Or per mile of railway	236	154 11 9	372 0	32 6 8	0 7 11	187 10 4	.....	.....	.....
For previous 13 weeks of half-year	*122,017	*62,087 14 0	†4,06,741 10	†26,023 5 0	‡472 1 0	88,582 4 0	13,393	7,267	20,660
Total for 14 weeks ...	136,417	70,938 9 0	4,28,007 0	27,876 11 0	500 5 0	99,315 9 0	15,840	7,726	23,566
Comparison.									
Total for corresponding week of previous year	10,593½	5,655 3 8	72,364 10	1,706 8 0	32 4 9	7,394 0 5	1,819	1,161	2,980
Per mile of railway corresponding week of previous year ...	185½	98 13 11	1,265 10	29 13 4	0 9 0	129 4 3	.....	.....	.....
Total to corresponding date of previous year	197,019	1,10,401 15 6	6,89,882 0	31,289 3 0	590 7 0	1,42,281 9 6	19,496	10,093	29,589

* Deducted No. of passengers 3,099 and Rs. 1,946
† Ditto Mds. 1,813 & added ,, 48
‡ Ditto ,, 66
} on account of differences between the approximate and audited returns to week ended 30th August 1890.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23*rd July* 1883.

Receipts for week ending 5th October 1889.			Receipts for week ending 4th October 1890.			Total receipts from 1st April 1889 to 5th October 1889.			Total receipts from 1st April 1890 to 4th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
57½	7,394	129	57½	10,733	188	57½	2,56,277	166	57½	*2,26,060	146	.....	30.217

* Deducted Rs. 1,964 on account of difference between the approximate and audited figures to week ended 30th August 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, *on* 22½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,631	3,495 1 0	5,831 0	217 4 0	4 6 0	3,716 11 0	924	44	968
Or per mile of railway	.....	157 1 3	.....	9 12 3	0 3 2	167 0 8	.....	.....	.....
For previous 13 weeks of half-year	*211,254	*51,108 8 0	†60,059 10	†2,554 5 0	‡65 10 0	53,728 7 0	11,694	608	12,298
Total for 14 weeks ...	226,885	54,603 9 0	65,920 10	2,771 9 0	70 0 0	57,445 2 0	12,618	648	13,266
Comparison.									
Total for corresponding week of previous year	21,577½	5,624 12 9	5,614 20	194 9 0	5 15 3	5,825 5 0	925	43	968
Per mile of railway corresponding week of previous year ...	.....	252 12 10	.....	8 11 11	0 4 3	261 13 0	.....	.....	.....
Total to corresponding date of previous year	248,302½	59,687 12 7	80,103 0	2,674 3 0	67 4 6	62,429 4 1	12,940	668	13,668

* Deducted No. of passengers 6,088 and Rs. 2,214
† Ditto Mds. 12 and ,, 2
‡ Ditto ,, 10
} on account of differences between the approximate and audited returns to week ended 30th August 1890.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23*rd July* 1883.

Receipts for week ending 5th October 1889.			Receipts for week ending 4th October 1890.			Total receipts from 1st April 1889 to 5th October 1889.			Total receipts from 1st April 1890 to 4th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,825	262	22½	3,717	167	22½	1,45,066	241	22½	*1,42,293	237	.....	2,773

* Deducted Rs. 2,226 on account of difference between the approximate and audited figures to week ended 30th August 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 27th September 1890, *on* 763 *miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	127,390	65,480 0 0	7,50,500 0	2,04,350 0 0	25,480 0 0	2,95,310 0 0	18,036	36,468	55,104
Or per mile of railway	167	86 0 0	984 0	268 0 0	†9 0 0	363 0 0	.....	.....	.....
For previous 12 weeks of half-year*	1,628,658	6,50,548 0 0	65,01,981 0	15,88,703 0 0	1,62,220 0 0	24,07,471 0 0	264,769	380,768	645,537
Total for 13 weeks ...	1,756,048	7,22,028 0 0	72,52,481 0	17,93,053 0 0	1,87,700 0 0	27,02,781 0 0	283,405	417,236	700,641
COMPARISON.									
Total for corresponding week of previous year	147,500	88,754 0 0	8,26,465 0	2,03,420 0 0	32,704 0 0	3,24,878 0 0	22,652	37,311	59,963
Per mile of railway corresponding period of previous year ...	197	119 0 0	1,106 0	272 0 0	†11 0 0	402 0 0	.....	.....	.....
Total to corresponding date of previous year	1,780,779	7,64,978 0 0	81,03,514 0	19,12,128 0 0	2,03,071 0 0	28,80,177 0 0	291,228	398,754	689,982

* Audited up to week ending 9th and train mileage up to 30th August 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 28TH SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 28TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	3,24,878	435	763	2,95,310	387	710	50,15,619	272	759	*50,85,439	268	69,820	.....

* Audited up to week ending 9th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, *on* 125 *miles open.*

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	21,410	6,870 0 0	55,340 0	5,470 0 0	50 0 0	13,390 0 0	3,675	1,991	5,666
Or per mile of railway	171	55 0 0	443 0	44 0 0	.....	99 0 0	.....	.....	.....
For previous 12 weeks of half-year*	296,574	91,400 0 0	4,03,444 0	29,052 0 0	2,393 0 0	1,22,944 0 0	42,300	24,901	67,201
Total for 13 weeks ...	317,984	98,269 0 0	4,58,824 0	34,522 0 0	2,443 0 0	1,36,334 0 0	45,975	26,892	72,867
COMPARISON.									
Total for corresponding week of previous year	28,020	12,510 0 0	90,984 0	9,897 0 0	130 0 0	22,537 0 0	3,537	3,591	7,128
Per mile of railway corresponding period of previous year ...	224	100 0 0	800 0	79 0 0	1 0 0	180 0 0	.....	.....	.....
Total to corresponding date of previous year	353,546	1,17,427 0 0	8,38,105 0	78,268 0 0	2,562 0 0	1,98,257 0 0	45,386	33,014	78,400

* Audited up to 9th August 1890. Train mileage audited up to 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 28TH SEPTEMBER 1889.			RECEIPTS FOR WEEK ENDING 27TH SEPTEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 28TH SEPTEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 27TH SEPTEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	22,537	180	125	12,390	99	125	3,78,104	116	125	*3,00,842	93	.....	77,262

* Audited up to week ending 9th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, *on* 86 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,320	5,620 0 0	22,080 0	2,210 0 0	70 0 0	7,900 0 0	2,414	706	3,120
Or per mile of railway	178	65 0 0	257 0	26 0 0	1 0 0	92 0 0	.....	.....	.....
For previous 12 weeks of half-year*	175,812	54,399 0 0	1,46,785 0	13,217 0 0	3,726 0 0	71,342 0 0	28,312	8,560	36,872
Total for 13 weeks ...	191,132	60,019 0 0	1,68,865 0	15,427 0 0	3,796 0 0	79,242 0 0	30,726	9,266	39,992
Comparison.									
Total for corresponding week of previous year	16,467	6,368 0 0	56,795 0	3,412 0 0	460 0 0	10,240 0 0	2,547	1,004	3,551
Per mile of railway corresponding period of previous year	191	74 0 0	660 0	40 0 0	5 0 0	119 0 0	.....	.....	.....
Total to corresponding date of previous year	192,869	60,263 0 0	2,56,144 0	18,107 0 0	3,089 0 0	81,459 0 0	32,351	11,765	44,116

* Audited up to week ending 9th August 1890.
Train mileage ditto ditto 30th August 1890

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 28th September 1889.			Receipts for week ending 27th September 1890.			Total receipts from 1st April 1889 to 28th September 1889.			Total receipts from 1st April 1890 to 27th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	10,240	119	86	7,900	92	86	1,55,738	70	86	*1,61,103	72	5,365	.....

* Audited up to week ending 9th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 27th September 1890, *on* 27¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,700	930 0 0	23,410 0	1,370 0 0	10 0 0	2,310 0 0	580	170	750
Or per mile of railway	99	34 0 0	859 0	50 0 0	1 0 0	85 0 0	.....	.....	.....
For previous 12 weeks of half-year*	34,616	12,388 0 0	90,195 0	4,819 0 0	186 0 0	17,393 0 0	6,432	4,874	11,306
Total for 13 weeks ...	37,316	13,318 0 0	1,13,605 0	6,189 0 0	196 0 0	19,703 0 0	7,012	5,044	12,056
Comparison.									
Total for corresponding week of previous year	3,790	1,414 0 0	7,463 0	550 0 0	17 0 0	1,961 0 0	586	449	1,035
Per mile of railway corresponding period of previous year ...	139	52 0 0	274 0	19 0 0	1 0 0	72 0 0	.....	.....	.....
Total to corresponding date of previous year	39,332	14,342 0 0	1,24,338 0	8,235 0 0	612 0 0	23,179 0 0	7,468	4,901	12,369

* Audited up to week ending 9th August 1890.
Train mileage ditto ditto 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 28th September 1889.			Receipts for week ending 27th September 1890.			Total receipts from 1st April 1889 to 28th September 1889.			Total receipts from 1st April 1890 to 27th September 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,961	72	27¼	2,310	85	27¼	48,758	69	27¼	*45,71	65	.....	3,043

* Audited up to week ending 9th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 27th September 1890, *on* 691 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat. earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	80,620	32,570	2,07,880	30,600	6,400	69,570	11,810	11,330	23,140
Or per mile of railway	116·67	47·14	300·77	44·28	9·26	100·68	.....	.....	.....
For previous 11 weeks of half-year	850,629	3,26,359	29,09,174	3,47,160	75,467	7,48,986	139,883	132,187	272,070
Total for 12 weeks ...	(a)931,249	3,58,929	(b) 32,07,004	3,77,760	*81,867	8,18,556	151,693	143,517	295,210
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year	73,748	27,002	2,11,003	17,987	7,146	52,135	10,200	11,193	21,393
Per mile of corresponding week of previous year on 649 miles open	113·63	41·61	325·12	27·71	11·01	80·33	.....	.....	.....
Total to corresponding date of previous year	988,052	3,43,794	37,06,025	4,12,857	105,995	862,646	135,728	171,373	307,101

* Steam-boat earnings for the week, Rs. 4,820.
Ditto to date, „ 61,160.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 27th September 1890.			Receipts for week ending 28th September 1889.			Total receipts from 1st April 1890 to 27th September 1890.			Total receipts from 1st April 1889 to 28th September 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
376	69,570	100·68	376	52,135	80·33	670	21,42,236	124·34	649	21,78,299	129·81	.....	36,063

(a) Excludes 34,904 passengers, being traffic common to B. and N.-W. and T. Railways.
(b) Do. 1,44,594 maunds, ditto ditto ditto.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 13th September 1890	11,275
Corresponding period of 1889	11,702
Decrease	427
	Rs. A. P.
Receipts per mile for week ending 13th September 1890	221 1 3
Corresponding period of 1889	229 7 4
Decrease	8 6 1
Receipts from 1st July to 13th September 1890	86,787
Corresponding period of 1889	1,17,133
Decrease	30,346

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 20th September 1890	14,404
Corresponding period of 1889	8,756
Increase	5,647
	Rs. A. P.
Receipts per mile for week ending 20th September 1890	282 6 11
Corresponding period of 1889	171 11 5
Increase	110 11 6
Receipts from 1st July to 20th September 1890	1,01,191
Corresponding period of 1889	1,25,890
Decrease	24,699

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 27th September 1890	14,171
Corresponding period of 1889	14,109
Increase	62

	Rs.	A.	P.
Receipts per mile for week ending 27th September 1890	277	13	10
Corresponding period of 1889	276	10	6
Increase	1	3	4

Receipts from 1st July to 27th September 1890	1,15,362
Corresponding period of 1889	1,40,000
Decrease	24,638

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The Calcutta Gazette.

WEDNESDAY, OCTOBER 22, 1890.

OFFICIAL PAPERS.

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REPORT ON THE ECONOMIC AND ART SECTION OF THE INDIAN MUSEUM FOR THE YEAR 1889-90.

REVENUE DEPARTMENT—MISCELLANEOUS.

Darjeeling, the 13th October 1890.

RESOLUTION.

READ—

The Report of the Trustees of the Indian Museum on the Economic and Art Section of the Indian Museum for the year 1889-90.

The Report of the Assistant Curator of the Economic and Art Section of the Indian Museum was submitted to Government with remarks by the Trustees of the Indian Museum on the 6th September 1890.

2. As in previous years, the work was mainly confined to preserving specimens from the influences of climate and the ravages of insects, the insecure condition of the present building and the insufficient number of show cases making this a difficult task. In spite of every care, some samples of woollen goods and raw materials were so damaged as to be unfit for display. It is considered that air-tight glass-cases, with the air inside fully impregnated with napthaline, afford the only means of securing efficient protection, and provision for such cases has accordingly been made in the estimate of fittings for the new building now under construction. The attention of the Public Works Department will be drawn to the recommendation of the Trustees that the completion of this building be expedited.

3. The Lieutenant-Governor is glad to notice that the arrangements referred to in last year's Resolution, as to the exchange of specimens between the Economic Museum and the Jaipur Museum, have been effected. An interesting series of specimens was received from Jaipur, and the return collection is reported to be almost ready for despatch. A number of valuable specimens, not represented

before, was added to the Artware Court during the year, partly by donation and partly by purchase. Additions were also made to the exhibits in the Ethnological and Economical Courts. The total number of specimens in the register of each Court stood as follows on the 31st March, 1890:—

	Last number on 31st March, 1889.	Last number on 31st March, 1890.	Number of articles damaged during 1889-90.	Net increase during the year.
Art-ware Court ...	10,090	10,526	*Nil*	436
Economic „ ...	16,816	16,954	13	123
Ethnology ...	6,972	7,145	*Nil*	173

4. The most important works in which the Assistant Curator and his staff were engaged during the year were (1) the formation of a large and exhaustive collection of the fibres and mat and paper grasses of India for distribution to several institutions in the United Kingdom; and (2) the formation of comprehensive collections of the whole of the economic products of India for the Imperial Institute, London, the Indian Museum, and any other museums in India which Provincial Governments may recommend, and for which they may be prepared to purchase a set of specimens. No actual collecting was done during the year, but tabular statements of all the products required from the various provinces during 1890-91 were prepared, and the preliminary correspondence issued. It is proposed to make the collections *pari pasu* with Dr. Watt's Dictionary of the Economic Products of India, which will thus form an analytical and descriptive catalogue of the specimens. The proposal has the approval of the Lieutenant-Governor.

5. On the recommendation of the Bengal Committee of the Colonial and Indian Museum, who brought their work to a close during the year, a sum of Rs. 7,025, being the balance of the sale proceeds of exhibits, was placed at the disposal of the Trustees for the purchase of good specimens of Bengal art-ware to form a collection under the name of the "Asanullah and Swarnamayi" collection in commemoration of the liberal donations of the Nawab Asanullah of Dacca and the Maharani Swarnamayi of Cossimbazar towards the cost of the Bengal Screen.

6. The Lieutenant-Governor notices with pleasure that the arrangement under which the accounts of the Economic and Art Museum were transferred to the Trustees' Office on the 1st May 1890 is working well.

7. The lamented death of Mr. E. F. T. Atkinson, C.S., C.I.E., Chairman of the Trustees, which occurred in September, 1890, has deprived the Government and the Board of Trustees of the services and advice of an enthusiastic worker in the causes to which the Indian Museum is devoted. Sir Steuart Bayley desires to record his appreciation of the late Mr. Atkinson's zeal and labours in the pursuit of scientific knowledge.

By order of the Lieutenant-Governor of Bengal,

C. E. BUCKLAND,

Offg. Secretary to the Government of Bengal.

RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE CHOTA NAGPORE DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Calcutta, the 16th October, 1890.

RESOLUTION.

READ—

The General Administration Report of the Chota Nagpore Division for the year 1889-90.

Material condition of the people.

The report, submitted by Mr. Grimley, who was in charge of the Division throughout the year, deals fully with all the prescribed topics, and it is necessary to touch in this Resolution only on some points to which the attention of the Lieutenant-Governor has been specially attracted. The price of food was high during the year, a condition favourable to the ryot in his character of a producer, but injurious to such labourers as are paid in money. The yield of the different crops was good, with the result that there was a large increase in the export trade. In the Lohardugga district there has been a distinct rise in the rate of wages, unskilled workmen now getting from 2 annas to 2 annas 3 pies a day against 1 anna 9 pies to 2 annas in 1887-88, and a similar tendency is observed in Manbhoom. Public health was better than in the preceding year, and there were also some minor causes at work to improve temporarily or permanently the condition of the masses, which in this Division is generally the reverse of satisfactory. The Commissioner writes:—

"In Manbhoom the opening of the Bengal-Nagpur Railway enabled the cultivators to take advantage of the high prices ruling in the neighbouring districts and to export their surplus stocks of rice, oilseeds, &c., at a substantial profit, while the excellent outturn of the lac crop materially benefited the people of Jhalda, Bagmoondi, and the rest of the western parts of the district. In Singbhoom the construction of the railway brought a great deal of money into the district, a good portion of which was earned by people of all classes from all parts of the district. In Hazaribagh, apart from the general prosperity consequent on the good harvests, the people of Gawan, Koderma, Baraganda and Giridih and their neighbourhood found ample work in the numerous mica, copper and coal mines at comparatively high wages. In Lohardugga the 'opening of the Bengal-Nagpur lines in the Division, the operations of the public works and road cess departments on a large scale within the district, extensive development of trade at the various centres and the local tea-gardens, have increased the demand for labour, and the consequent rise in the price of wages has greatly ameliorated the condition of the poorer classes.' The working of the Anglican and German Missionaries has also brought on a great change among the aboriginal races who at present constitute an important section of the population of the district. Much improvement is to be observed in their mode of building houses, and they take greater care to keep themselves neat and clean, and have a general tendency to give up some of their primitive habits and ways of living. A great advance is also noticeable in their style of clothing. The condition of the non-Christians too, as regards dress and dwelling-houses, has made a visible improvement within the past few years."

Mining.

2. In this Division considerable importance attaches to mining operations, and it should be the object of all Government officers having the charge of estates, or being otherwise in a position of authority in regard to such matters, to afford every facility for prospecting, while refraining from making any settlement of permanent mining rights otherwise than in accordance with the prescribed rules. An economic survey is now being made of the Jharia coal-fields, and leases were granted for mica prospecting, under rules lately framed by this Government for the purpose, over 190 acres out of 370 acres applied for. The applications in regard to the balance should be promptly disposed of, if this has not been done already. In the principal coal mines the output was 564,971 tons against 630,527 tons in the preceding year; in the mica mines 1,333 maunds; in refined copper 320 tons against 218. In regard to gold the Commissioner writes:—

"In Lohardugga the aborigines of Sonapet have for a long time obtained small quantities of gold by washing the sand of the Sona river, but the quantities gathered have never been sufficient to pay them anything more than their daily wages. The Sonapet valley is almost entirely encircled by a belt of hills, and some of the reefs in these hills have been examined by mining geologists, and the favourable reports submitted have encouraged several persons to take up tracts of land with the view of forming mining companies. The Bengal-Nagpur Railway has brought the district of Singbhoom within reach of Calcutta and into prominent notice in commercial circles. Syndicates have been formed there with

the view of exploiting its mineral resources, and there are at the present time several important applications pending before me for licenses to prospect for minerals. In fact, signs are not wanting that this district with its mineral and forest products has a great future before it."

State of public feeling.

3. Of chief importance in connexion with the subject of public feeling is an agrarian agitation which has arisen among the Kols and which has connected itself with a singular religious development. The Kols have for many years shown signs of discontent with their existing condition, especially in relation to the claims made upon them by landlords for excessive rents and for unpaid labour. At one time the feeling induced a few of them to put forward political claims which had to be unhesitatingly rejected. During the past year the dissatisfaction with the landlords' demands showed itself in some lawlessness, not of a very aggravated character, and in frequent refusals to pay rent or to give unpaid labour—symptoms which have caused the landlord class considerable uneasiness. A body of Jesuit missionaries have recently been extending their operations in the Division and have warmly taken up the cause of their Kol converts. Under this influence the number of conversions has been remarkable, though, as Mr. Grimley points out, in many cases "the enquiry established the fact that the conversions to Christianity were effected by the rough and simple process of depriving the new convert of his topknot, and also that those who allowed themselves to be thus easily converted to the new faith did so in the full hope and belief that they would be thereby enabled to escape from the exactions of their landlords, whether in the shape of rent, cesses or predial services." With the consent of the Government the Commissioner issued a proclamation specifying the amount of services which had been customary in past times and warning the zemindars to demand nothing in excess, at the same time urging the ryots to yield what was due. Other remedial measures of a more permanent character were discussed at a conference at Ranchi, and the Lieutenant-Governor is now awaiting a report from the Commissioner on them.

4. The thanks of the Lieutenant-Governor are given to Mr. Grimley for his careful administration of the Division during the year. Colonel Garbett, Colonel Lillingston, and Colonel Samuells all worked well as Deputy Commissioners, and Mr. Baker, of Manbhoom, showed administrative ability of an exceptional degree. The remarks of Deputy Commissioners as to their subordinate officers are not included in the Commissioner's report. This omission should now be supplied.

By order of the Lieutenant-Governor of Bengal,

C. E. BUCKLAND,

Offg. Secretary to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 18th October 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
Burdwan Dtvn. 1	**Burdwan** Oct. 18, '90	3·37	Weather—seasonable. Prospects of *amun* and sugarcane good. Prices of common rice—
	Culna ...	2·37	
	Cutwa ...	5·52	
			Srs.
			Burdwan ... ... 16 }
			Culna ... ... 15 } per rupee.
			Cutwa ... ... 14 13/16 }
2	**Bankoora** „ 18, '90	4·76	Weather—cloudy and rainy with occasional heavy showers. Copious rainfall during the week. Prospects of crops good. Common rice selling at 19 seers per rupee at the Sudder station and at Bishenpore.
3	**Birbhum** „ 18, '90	5·56	Heavy rain for three days of the week. It is beneficial to crops, which are already excellent. Price of common rice 17 to 18½ seers per rupee.
	Rampore Haut ...	7·27	
4	**Midnapur** „ 18, '90	4·50	Heavy rain. Prospects of rice crop fairly good. Over 12 inches of rain at Contai, and this has caused low-lying lands to be flooded, and will in parts do some loss. Prices of common rice—
			Srs.
			Sudder ... ... 15 }
			Tumlook ... ... 16 }
			Ghatal ... ... 16 } per rupee.
			Contai ... ... 17 }
5	**Hooghly** „ 18, '90	4·90	Continual rain throughout the week. Prospects of *amun* excellent. Outturn of jute expected to be 12 annas. Prices of common rice—
	Serampore ...	3·61	
	Jehanabad ...	2·55	
			Srs.
			Sudder ... ... 13 }
			Serampore ... ... 13 } per rupee.
			Jehanabad ... ... 16 }
	Howrah „ 18, '90	6·15	Weather—rainy. *Amun* crop promises well. Other crops satisfactory. Price of common rice 14 seers per rupee.
	Uluberiah ...	5·08	
	Central Districts.		
Presidency Dtvn. 6	**24-Perghs.** Oct. 21, '90	Figures not given.	Cyclonic weather with very heavy rainfall up to Thursday (16th) night. Weather bright since 17th. Prospects of all standing crops good except in the flooded area of thana Baduria in the Bussirhat subdivision. Common rice selling at from 12 seers 14 chittacks to 16 seers per rupee.
7	**Nuddea** „ 18, '90	7·28	Weather—cloudy and rainy. *Amun* rice doing well. Sowing of winter crops delayed owing to heavy rain. No change in the price of rice.
	Kushtea ...	4·37	
	Meherpore ...	11·94	
	Chuadanga ...	6·51	
	Ranaghat ...	5·07	
8	**Khoolna** „ 18, '90	5·72	Weather—rainy. Condition and prospects of *amun* crop excellent except in the flooded thanas of Kalaroa and Satkhira.
	Bagirhat ...	3·83	
	Satkhira ...	3·69	
9	**Jessore** „ 18, '90	6·70	Weather—rainy. Heavy rain during the week has retarded the sowing of *rubbi* crops and may probably do some injury to crops already sown.
	Jhenidah ...	3·97	
	Magura ...	3·52	
	Narail ...	3·50	
	Bongong ...	7·20	
10	**Moorshedabad** „ 18, '90	5·89	Weather—most part of the week overcast and rainy; bright sunshine prevailing from this morning (18th). Prospects of *amun* favourable. In some parts it is in ear. *Kalai* has been much injured by the recent rain, but it is still being sown. The sudden rise of the Brahmini river has submerged a considerable portion of *amun* lands in Panchgram outpost in the Lalbagh subdivision. *Rubbi* being sown.. Agricultural loans and gratuitous relief are still being given.
Rajshahye Dtvn. 11	**Dinagepur** „ 18, '90	14·38	Rain and storm on 14th and 15th. Prospects of crops continue good. Floods have caused injury in the south, but to what extent not known until they subside.
	Thakurgaon ...	16·93	
12	**Rajshahye** „ 18, '90	8·20	Strong gale accompanied with heavy rain. Weather clear since yesterday (17th). Winter rice and other standing crops thriving well. Jute steeping and gathering in progress. *Bhadoi* almost gathered in. (In last week's return for "22,000" bighas of paddy land destroyed by tornado read "2,200" bighas.)
	Nattore ...	5·88	
	Nowgong ...	9·18	
13	**Rungpur** „ 18, '90	18·78	Heavy rain with storms on the 14th and 15th. Weather hot and gloomy at intervals. Standing crops in low lands have suffered much from rain. Prospects, however, are good. Prices high.
	Nilphamari ...	12·32	
	Kurigram ...	14·64	
	Gaibanda ...	15·35	
14	**Bogra** „ 18, '90	11·54	Weather—gloomy, rainy and excessively damp till 17th; now gradually clearing. Excessive rainfall from 12th to 16th has done some more harm to the transplanted rice in the west and north-west. In the middle and the east of the district this crop is still in very good condition, and the outturn and the prospects of all other crops are good throughout the district. *Kalai* is being sown, and land is being ploughed for the spring crops. A considerable extent of grazing ground has been under water, and there has been temporary scarcity of fodder. Common rice is selling at 18 seers a rupee.
	Sherpur ...	9·56	
15	**Pubna** „ 18, '90	3·30	Weather—cool and bright. Prospects of *amun* and *aus* continue as before. Winter sowings damaged by the late heavy rain.
16	**Darjeeling** ...	...	Report not received.
17	**Julpigoree** „ 18, '90	13·04	Weather—rainy and cool. Harvesting of jute going on rapidly. Standing crops doing well. No change in the price of rice.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca Oct. 18, '90	2·00	Weather—hot and mostly cloudy. Harvesting of jute nearly completed, and that of *aswini* paddy going on. Recent rain has done much good to the standing crops. Sowing of *rubbi* crops commenced. Fodder is available. Common rice sold at from 12 to 15 seers per rupee.
Dacca Divn. 19	Furreedpur ,, 18, '90	2·32	Weather—rainy. State of crops good. Common rice selling at 13 seers per rupee at head-quarters of all the subdivisions.
Dacca Divn. 20	Backergunge ,, 18, '90	3·72	Weather—seasonable. State and prospects of crops good. Common rice selling at about 13 seers per rupee.
Dacca Divn. 21	Mymensingh ,, 18, '90	4·10	Rain every day. Prospect of *amun* crop continues favourable. Coarse rice selling at 12½ seers per rupee.
Chittagong Divn. 22	Chittagong ,, 21, '90	0·88	Weather—seasonable. *Aus* harvested with average outturn. Prospects of *amun* good. Prices steady.
Chittagong Divn. 23	Noakholly ,, 18, '90	5·51	Weather—variable: cloudy at times. Mornings occasionally foggy. State of *amun* crop good. Lands being prepared for winter crops. Price of rice stationary.
Chittagong Divn. 24	Tipperah ,, 18, '90	4·40	Weather—seasonable. *Amun* expected to yield good outturn. Jute crop cut; market dull. Price of rice stationary.
Chittagong Divn. 25	Chittagong Hill Tracts. ,, 16, '90	2·10	Weather—rainy on the 10th, 11th, 12th, 15th and 16th. Harvesting of *jum* paddy still continues. Cotton in flower. Late rice crop in low lands progressing. Lands being ploughed for mustard. Common rice being sold at 12½ seers per rupee.
	Hill Tipperah ...	...	Report not received.
BEHAR.			
Patna Divn. 26	Patna ,, 18, '90	1·02	Weather—hot; cool at night. Paddy looks flourishing. *Rubbi* crops are being sown in the Barh subdivision; in other places fields are being prepared for sowing. Prospects of other crops on the ground are favourable. Prices of food-grains stationary.
	Barh ...	1·10	
	Behar ...	1·11	
	Dinapore ...	1·60	
Patna Divn. 27	Gya ,, 17, '90	0·32	Weather—clear and sometimes cloudy. Prospects of paddy and other crops favourable. Sowing of *rubbi* commenced. Sugarcane prospering. Prices of food-grains falling daily.
Patna Divn. 28	Shahabad ,, 18, '90	2·99	Weather—cool. The late rain has checked *rubbi* ploughing, and has harmed *bajra*, which, however, is cultivated only in small quantities. On the whole, the rain will not have harmed *rubbi*, and will, if anything, improve the paddy, which is now excellent.
	Buxar ...	2·06	
	Bhabuah ...	0·31	
	Sasseram ...	0 94	
Patna Divn. 29	Durbhunga ,, 18, '90	Figures not given.	Weather—cloudy and rainy during greater portion of the week. There has been sufficient rain this week. It has greatly improved the prospects of the rice crop. A break is, however, necessary to facilitate *rubbi* sowings. Prices almost stationary.
Patna Divn. 30	Mozufferpur ,, 18, '90	1·56	Weather—somewhat cloudy and cold. Prospects of rice crop excellent. Recent rainfall has done some harm to *rubbi* crops which are being sown. Prices stationary.
Patna Divn. 31	Sarun ,, 18, '90	1·93	Weather—seasonable. Much cooler since the rainfall early in the week. Prospects of crops very good, and still further improved by the rain which fell almost universally during the week.
Patna Divn. 32	Chumparun ,, 18, '90	6·83	Weather—cool and cloudy. Ploughing of fields for *rubbi* sowings stopped by incessant rain. Prospects of paddy very good.
Bhagulpore Divn. 33	Monghyr ,, 18, '90	2·29	Weather—cloudy and rainy. Prospects of standing crops continue favourable. Rain has been beneficial to the winter rice.
Bhagulpore Divn. 33	Begusserai ...	2·22	
Bhagulpore Divn. 33	Jamui ...	2·02	
Bhagulpore Divn. 34	Bhagulpore ,, 18, '90	5·41	Weather—cloudy and rainy for most part of the week. Prospects of winter rice much improved by the rain. *Kurthi* sowings complete.
Bhagulpore Divn. 34	Banka ...	3·35	
Bhagulpore Divn. 34	Mudhepura ...	2·32	
Bhagulpore Divn. 34	Soopool ...	1·35	
Bhagulpore Divn. 35	Purneah ,, 18, '90	6·22	Weather—much rain and stormy in the first portion of the week; now fair. State and prospects of crops favourable. *Rubbi* crops are being sown.
Bhagulpore Divn. 35	Kishengunge ...	13·00	
Bhagulpore Divn. 35	Arrareah ...	6·02	
Bhagulpore Divn. 36	Maldah ,, 18, '90	6·72	Weather—cloudy and damp; first five days very cool, since then sunny and bright. Prospects of winter rice crop continue favourable. *Kalai* sowings and preparation of lands for *rubbi* crops were retarded for the incessant rainfall during the first five days of the week. Price of rice unchanged.
Bhagulpore Divn. 37	Sonthal Pergns. ,, 18, '90	11·45	Weather—heavy rain and cloudy. Prospects of rice crop very good; an outturn above the average is expected. *Rubbi* sowings commenced.
	Deoghur ...	3·84	
	Jamtara ...	17·81	
	Pakour ...	11·60	
	Rajmehal ...	8·37	

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	ORISSA.			
Orissa Divn.	38	Cuttack Oct. 18, '90	8·98	Weather—seasonable. The late rain has somewhat interfered with the sowing of *rubbi*. Prospects of *sarad* rice in the Jajpur subdivision have further improved.
Orissa Divn.	39	Pooree „ 16, '90	9·02	Weather—seasonable. Weeding of *sarad* crop almost over. *Mandia* and *kaliansa* are being harvested. Miscellaneous crops doing well. Price of common rice from 18 seers 6 chittacks to 27 seers 9 chittacks per rupee.
		Khoorda ...	4·59	
		Banpur ...	6·05	
Orissa Divn.	40	Balasore „ 18, '90	8·61	Weather—stormy. Outturn of *beali* crop estimated at 12 annas. Prospects of *sarad* crop estimated at nearly the same figure.
	CHOTA NAGPORE.			
	South-West Frontier Agency.			
Chota Nagpore Divn.	41	Hazaribagh Oct. 18, '90	0·25	Weather—seasonable. Nights getting cold. Prospect of winter rice excellent; 16 to 20 annas outturn expected. Sugarcane doing well. *Rubbi* crops being sown. Prices stationary.
Chota Nagpore Divn.	42	Lohardugga „ 18, '90	1·44	Weather—seasonable. Harvesting of *gora* rice continues. Prospect of winter rice continues favourable. *Rubbi* crops being sown here and there.
		Palamow (up to 13th)	Nil	
Chota Nagpore Divn.	43	Singbhoom Oct. 18, '90	0·89	Weather—seasonable and getting cold. Prospects of crops very satisfactory.
Chota Nagpore Divn.	44	Manbhoom „ 18, '90	2·96	A good deal of rain during early part of week. It has done immense good. Prospects of crops very favourable.
		Govindpore ...	3·08	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 21st October 1890.

C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																		
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ...	13 0	14 0	13 0	...	...	...	12 6	12 0	11 4	16 9	15 15	14 10	...	...	...
2	Bankoora ...	15 0	15 0	13 0	20 0	20 0	14 8	15 0	15 0	15 0	18 0	18 0	17 8		...	...
3	Beerbhoom ...	17 4	17 4	15 0	...	...	...	13 8	13 8	12 0	16 8	16 8	15 0	...	...	...
4	Midnapore ...	10 8	11 0	13 8	...	...	...	11 0	11 0	12 0	15 0	15 0	14 0	...	...	...
5	Hooghly ...	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	..	...	...
	Howrah ...	...	...	...	...	...	...	10 0	10 0	9 0	13 8	13 8	13 0	...	...	...
	Central Districts.															
	Calcutta* ..		13 4	13 2		17 12	17 4		8 14	8 0		12 12	12 15	...	...	16 13
6	24-Pergunnahs	14 8	14 8	14 0	19 0	18 12	17 0	8 0	8 0	7 0	14 0	14 0	13 4	...	...	...
7	Nuddea ...	15 4	15 4	14 0	No Sale.	20 0	16 0	11 10	12 ...	10 5½	13 10	14 8	12 ...	...	...	...
8	Khoolna ...	...	...	...	...	...	...	12 0	12 12	11 2	14 4	13 8	11 10	...	...	...
9	Jessore ...	13 0	13 4	12 0	...	...	...	11 0	11 0	9 0	13 0	14 8	14 0	...	...	...
10	Moorshedabad	16 0	16 0	16 0	...	...	...	10 0	10 0	10 0	16 0	16 0	15 0	...	...	...
11	Dinagepore ..	15 10	15 9	14 4	14 8	18 0	16 0	14 6	12 13	12 0	16 13	15 9	16 12	...	...	...
12	Rajshahye ...	16 8	16 8	15 0	19 8	24 0	16 8	12 0	12 0	9 12	13 14	13 14	12 0	...	...	...
13	Rungpore ...	13 5	13 5	13 5	...	...	...	9 6	9 6	8 8	13 5	13 5	10 5	...	...	...
14	Bogra ...	13 5	15 0	13 8	...	...	...	9 12	12 0	9 12	14 4	15 0	12 0	...	...	...
15	Pubna ...	18 0	18 0	16 8	...	...	...	7 2	7 2	7 8	14 4	15 0	13 2	...	...	...
16	Darjeeling ...	9 0	9 0	10 0	10 0	10 0	10 0	5 0	5 0	5 0	12 0	12 0	10 0	...	...	...
17	Julpigoree* ..		13 0	11 0		16 0	16 0		8 0	8 0		16 0	13 0	...	...	...
	Eastern Districts.															
18	Dacca ...	12 0	12 0	13 0	14 0	13 0	26 0	13 0	13 0	9 0	14 0	14 0	11 0	...	...	...
19	Furreedpore ...	16 0	16 0	14 0	20 0	20 0	16 0	10 0	10 0	8 0	13 0	13 0	12 0	...	...	...
20	Backergunge*		...	...	...	...	...		11 0	10 0		12 0	10 12	...	...	...
21	Mymensingh ...	10 8	10 0	10 0	...	...	...	10 0	10 0	8 0	11 8	12 12	9 0	...	...	...

* Present return not received.

A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Nanegrunge 10 seers.
B At Rampore Haut retail price of salt 9 seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 9 seers and Ghatal 11 seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 10½ seers and Jehanabad 11 seers.
D1 In subdivisions retail prices of salt per rupee are :—Barasat 10 seers, Baduhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
E In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpore 10 seers, Chooadanga 10 seers, and Banaghat 9 seers 2 chittacks.
F In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers and Bagherhat 8 seers.

of the Districts of Bengal on the 15th October, 1890.

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi. (*Eleusine Coracana.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...
...	..	...	..	..	...
...	..	...	...	...	...
.	.	...	..	...	...
...	.	...	...	..	...
...	...	...	...	..	...
...	...	13 0	...	...	...
...	...	...	...	...	...
...	..	...	.	.	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	..	...
...	...	...	...	...	...
..	...	...	...	...	...
...	...	...	15 0	15 0	14 0
...	...	...	...	...	...
..	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
									BENGAL.
									Western Districts.
100 0	100 0	100 0	A k 11 2-2	k 11 2-2	10 5	3 8 0	3 8 0	3 11 0	Burdwan.
240 0	24 .	28 . 0	10 0	10 4	10 0	3 13 0	3 15 0	3 15 0	Bankoora.
160 0	160 0	160 0	B 10 8	10 8	10 8	3 10 0	3 10 0	3 10 0	Beerbhoom.
120 0	120 0	160 0	C 10 8	10 8	10 5	3 13 0	3 13 0	3 14 0	Midnapore.
120 0	120 0	120 0	D 9 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.
100 0	100 0	100 0	10 8	10 8	10 8	3 8 0	3 8 0	3 12 0	Howrah.
									Central Districts.
	92 8	100 0		10 8	10 4		3 8 8	3 10 1	Calcutta.
100 0	10 . 0	100 0	D1 10 12	10 12	10 0	3 7 0	3 6 0	3 10 0	24-Pergunnahs.
...	...	...	E 9 13	9 13	9 2	3 12 0	3 12 0	3 14 0	Nuddea.
16 . 0	160 0	140 0	F 8 0	8 0	9 0	4 0 0	4 0 0	4 0 0	Khoolna.
160 0	16 . 0	160 0	G 9 2	9 0	9 2	4 0 0	4 0 0	4 0 0	Jessore.
200 0	200 0	200 0	H 11 4	11 4	11 0	3 3 0	3 8 0	3 8 0	Moorshedabad.
160 0	160 0	160 0	I 10 0	10 0	9 12	4 0 0	4 0 0	4 0 0	Dinagepore.
240 0	24 . 0	240 0	J 9 9	9 9	9 9	4 0 0	4 0 0	4 0 0	Rajshahye.
100 0	100 0	100 0	K 9 6	9 6	9 6	4 4 0	4 4 0	4 4 0	Rungpore.
90 0	90 0	90 0	9 0	9 12	9 0	4 0 0	3 13 4	4 0 0	Bogra.
2 . 0	2 . 0	200 0	L k 8-11-2	k 8-11-2	k 9-2-2	3 14 0	3 14 0	4 0 0	Pubna.
..	...	...		...	...	...	...	...	
120 0	120 0	120 0	M 7 8	7 8	8 0	5 4 0	5 4 0	5 0 0	Darjeeling.
	20 . 0	128 0		9 0	9 0		4 4 0	4 2 0	Julpigoree.
									Eastern Districts.
12 . 0	120 0	160 0	N 9 12	9 8	10 0	4 0 0	4 2 0	3 15 0	Dacca.
120 0	120 0	120 0	10 0	10 0	10 0	3 14 0	3 14 0	4 0 0	Furreedpore.
	100 0	120 .		11 0	10 0		3 10 0	...	Backergunge.
...	...		O 10 0	9 12	9 8	3 15 0	4 0 0	4 2 0	Mymensingh.

per rupee are :—Jhenida 9 seers, Magura 10 seers, Narail 9¼ seers, and Bongong 10 seers.
per rupee are :—Lalbagh 10 seers, Jungipore 10½ seers, and Kandi 11 seers.
8 seers per rupee.
s of salt 9 seers per rupee.
per rupee are :—Gaibanda 8 seers, Kurigram 8 seers, and Nilphamari 9 seers.
10½ seers per rupee.

M At Siliguri retail price of salt 8 seers per rupee.
N In subdivisions retail prices of salt per rupee are :—Moonshegunge 8½ seers and Manikgunge 10 seers.
O In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	10 0	..	..	...	12 0	11 8	8 0	15 12	15 0	15 7		...	...
23	Noakholly ...	...	...	...	.	...	...	14 0	13 0	11 8	15 0	14 0	13 0	...	...	...
24	Tipperah ...	13 5½	11 7	12 0				11 7	8 14	10 0	14 8½	12 10½	12 0		.	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	11 6½	11 6¾	9 11	12 15	12 15	10 0	...	.	...
	Hill Tipperah		6 0	6 0	.	...	.		9 0	8 0		14 0	10 0	...	...	...
	BEHAR.		Red.													
26	Patna ...	16 12	17 4	17 0	17 0	18 0	22 0	11 0	10 0	10 0	16 8	16 12	14 0	...	19 8	21 0
		15 12	White. 15 6	14 13												
27	Gya ...	15 4	14 12	14 12	20 0	19 0	20 0	10 0	9 0	10 0	17 0	14 4	15 0	...	...	...
28	Shahabad ...	16 8	16 0	14 0	19 0	19 0	17 0	9 0	8 0	9 0	16 0	15 8	12 0	20 0	20 0	20 0
29	Durbhunga ...	15 3	15 6	16 0	16 8	15 8	16 6½	13 0	12 0	11 6	16 8	16 8	17 0	...	...	...
30	Mozufferpore ...	16 0	16 0	14 0	19 0	20 0	19 0	9 0	9 0	9 0	14 0	14 0	13 0	...	..	...
31	Sarun ...	15 8	15 8	15 0	17 8	18 0	18 8	8 4	8 4	8 8	13 12	14 0	11 8	...	...	...
32	Chumparun ...	17 0	17 0	14 0	19 8	21 0	17 0	10 0	9 0	8 0	15 8	14 8	16 0		...	...
33	Monghyr ...	16 12	17 13	16 13	16 12	22 0	16 13	10 8	11 0	11 9	14 11	14 11	13 2	...	...	...
34	Bhagulpore ...	16 11	17 0	18 4	22 11	21 11	16 6	11 6	Old. 10 1	12 0	13 14	Old. 13 14	13 14	...	..	...
								12 10	New. 12 10	...	15 2	New. 15 2	..			
35	Purneah ...	18 0	18 0	16 0	...	...		15 0	15 0	9 0	18 0	18 0	12 0	...	...	...
36	Maldah ...	18 0	19 0	17 0	...	...	...	9 0	13 0	10 0	16 0	16 0	13 0	...	...	...
37	Sonthal Perghs.	13 0	13 0	13 8	...	...	..	13 0	13 0	12 8	16 0	16 0	15 0	...	...	...
	ORISSA.															
38	Cuttack ...	14 7	14 7	13 2	.	..	...	10 8	10 8	10 8	18 6†	18 6	15 12	...	..	...
39	Pooree ...	13 2	11 13	11 2	...	...	...	13 6	13 6	14 7	21 0	21 0	19 5	.	...	...
40	Balasore ...	15 0	15 0	15 0	18 0	18 0	13 0	12 0	12 0	13 0	18 0	16 0	21 0	..	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	14 0	14 0	12 0	17 0	14 0	16 0	8 0	8 0	10 0	16 0	16 8	17 0	...	...	...
			Red.									Ordinary.				
42	Lohardugga ...	14 0	14 0	11 8	17 8	20 0		13 0	14 8	13 0	14 0	16 0	18 0	..	...	...
		8 8	White. ...	...							22 0	Coarse. 16 8	27 0			
43	Singbhoom ...	12 0	12 0	10 0	14 0	16 0	12 0	15 0	12 0	16 0	16 0	14 0	20 0	..	..	...
44	Manbhoom ...	13 5	13 5	12 0	28 0	28 0	...	13 0	13 0	14 0	20 8	20 0	20 0	...	...	...

* Present return not received.

† Price of common rice at Jajpore 17 seers 1 chittack and at Kendrapara 20 seers 7 chittacks per rupee.

O1 At Cox's Bazar retail price of salt 8 seers per rupee.

O2 At Feni Hat retail price of salt 8½ seers per rupee.

P In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Sasseram 10½ seers, and Bhabuah 9½ seers.

Q At Somastipore retail price of salt 10 seers per rupee.

R In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

SEERS OF 80 TOLAHS.

s of Bengal on the 15th October, 1890—(concluded).

Bajra or Cumbu. (Penicillum typhoideum.)			Marua or Ragi. (Eleusine Coracana.)			Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			Districts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch.										
...	...	...	..	...	...										
...	...	...	...	...	...										
...	...	...	...	...	...										
...	...	...	...	...	...										
...	...	...	...	..	23 8										
...	...	...	...	...	..										
...	...	...	...	...	24 0										
...	...	...	26 7	28 8	29 11										
...	...	...	23 0	23 0	...										
...	...	...	22 0	21 0	22 4										
...	...	...	28 0	28 0	.										
...	...	...	...	...	...										
...	...	...	.	...	...										
...	...	...	...	...	...										
...	...	...	...	...	...										
...	...	...	...	...	...										
...	...	...	...	...	...										
...	...	...	...	...	...										
...	...	...	30 0	30 0	36 0										
...	...	...	45 0	44	45 0										
...	...	...	...	...	..										
...	...	...	...	...	...										

Eastern Districts—concluded.

l. Ch.	S. Ch.	S. Ch.	S Ch.	S. Ch.	S. Ch	Rs A. P	Rs A P.	Rs A P.						
			O1											
10 0	110 0	100 0	10 0	10 0	10 0	3 14 0	3 14 0	3 11 0	Chittagong.					
			O2											
	...	..	9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.					
...	...	...	10 0	9 6½	9 0	4 0 0	4 3 0	4 4 0	Tipperah.					
20 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.					
...	...	...		8 0	8 0		4 6 0	4 6 0	Hill Tipperah.					
									BEHAR.					
10 0	110 0	130 0	10 0	10 0	9 8	3 10 0	3 10 0	3 11 0	Patna.					
60 0	180 0	200 0	9 4	9 2	9 2	4 2 0	4 2 0	4 2 0	Gya.					
			P											
20 0	120 0	140 0	10 0	10 0	10 0	3 15 0	3 15 0	3 11 0	Shahabad.					
			Q											
30 0	160 0	182 0	11 0	11 0	12 9	3 8 0	3 8 0	3 2 0	Durbhunga.					
			R											
30 0	160 0	160 0	10 0	10 8	10 0	3 11 0	3 11 0	3 12 0	Mozufferpore.					
30 0	160 0	160 0	10 4	10 4	10 0	3 12 0	3 12 0	3 15 0	Sarun.					
			S											
30 0	160 0	160 0	10 8	10 8	9 0	3 10 0	3 12 0	4 0 0	Champarun.					
			T											
17 0	147 0	147 0	10 8	10 8	9 7	3 11 0	3 10 0	4 3 0	Monghyr.					
31 8	138 14	164 0	10 0	10 1	10 1	3 14 6	3 14 6	4 0 0	Bhagulpore.					
			U											
10 0	140 0	200 0	9 0	9 0	9 0	4 7 0	4 7 0	4 7 0	Purneah.					
0 0	160 0	160 0	9 0	9 8	9 0	4 0 0	4 2 0	4 2 0	Maldah.					
0 0	200 0	200 0	9 0	9 0	9 4	3 14 0	3 14 0	4 0 0	Sonthal Perghs.					
									ORISSA.					
0 0	80 0	80 0	11 0	10 0	11 0	3 12 0	4 0 0	3 12 0	Cuttack.					
			V											
0 0	80 0	80 0	9 13	9 13	11 2	3 12 0	3 12 0	3 10 0	Pooree.					
			W											
0 0	160 0	160 0	10 0	10 0	9 0	3 14 0	3 14 0	4 2 0	Balasore.					
									CHOTA NAGPORE.					
									South-West Frontier Agency.					
0 24 0	32 0 0		8 0	8 8	8 0	4 3 0	4 3 0	4 8 0	Hazaribagh.					
			X											
0 20	140 0		9 [illegible]	[illegible]	8 0	4 2	4 2 0	4 10 0	Lohardugga.					
0 240	200 0		9 0	9 0	7 0	4 6 0	4 6 0	5 8	Singbhoom.					
			Y											
0 200	200 0		9 14	9 14	9 0	3 14 0	3 12 0	4 2 6	Manbhoom.					

r rupee.
pee are :—Begusarai 9½ seers and Jamui 9 seers.
etail price of salt 10 seers per rupee.

V In Khoorda subdivision retail price of salt 9 seers per rupee.
W At Bhudruck retail price of salt 9 seers per rupee
X At Daltongunge retail price of salt 8 seers 7 chittacks per rupee.
Y At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

PRICES-CURRENT (*wholesale*)

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BI
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta* ...		2 12 1	2 12 6		2 0 1	2 0 11	
2	Serajgunge ...	2 5 0	2 6 0	2 2 0	...	...	...	4 4 0
3	Dacca ...	3 4 0	3 4 0	3 0 0	2 12 0	3 0 0	1 8 0	3 0 0
4	Naraingunge	...	...	...	...	...	...	3 0 0
5	Chittagong		3 8 0	3 12 0	...	...	...	3 4 0
6	Patna ...	3 8 0 Red. 2 5 0 2 8 0 White.	2 5 0 2 8 0	2 5 0 2 8 6	2 5 3	2 3 0	1 12 0	3 8 0
7	Balasore ...	2 8 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 4 0
8	Pooree ...	...	..	...	...	..	..	...
	Cuttack ...	2 10 0	2 10 0	3 0 0	...	...	...	3 10 0

* Present return not received.

OF 40 SEERS.

MARUA OR RAGI. (*Eleusine Coracana.*)			KANGNI OR KAKUN, ITALIAN MILLET. (*Setaria Italica.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	...	...		4 0 0	2
...	...	...	...	...	...
...	...	...	...	...	...
..	...	..	...	...	...
...	...	...	...	...	...
...	...	1 10 0	2 5 3	2 0 0	2 7
...	...	...	...	...	...
..	.	...	.	...	...
...	...	..	...	...	...

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CALCUTTA,
The 21st October, 1890.

in the undermentioned Marts of Bengal on the 15th October, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (*Cicer Arietinum.*)			INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR. CAJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
	2 1 1	2 6 8		1 13 4	2 3 10		2 5 4	1 14 10		0 5 9	0 5 6		3 8 8	3 10 1	Calcutta.
2 8 0	2 8 0	2 12 0	...	...	...	...	...	...	...	...	...	3 12 0	3 11 0	3 14 0	Serajgunge.
2 8 0	3 0 0	3 0 0	...	...	...	2 8 0	3 4 0	2 12 0	0 5 0	0 5 0	0 4 0	4 0 0	4 2 0	3 15 0	Dacca.
3 8 0	3 8 0	3 0 0	...	...	...	3 8 0	3 8 0	3 12 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Naraingunge.
2 14 0	2 14 0	3 6 0	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 11 0	Chittagong.
2 0 0	2 0 0	2 0 0	1 14 0	1 15 0	1 14 6	2 0 0	2 1 0	1 12 0	0 6 0	0 6 0	0 5 0	3 10 0	3 10 0	3 14 0	Patna.
2 12 0	2 12 0	2 12 0	...	..	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 2 0	Balasore.
...	.	..	.	...	...	...	...	...	...	...	...	3 12 0	3 12 0	3 10 0	Pooree.
2 5 0	(Kalai) 2 10 0	1 12 0	...	...	...	2 0 0	2 0 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	4 0 0	3 12 0	Cuttack.

Published for general information.

C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

for the week ending Friday, the 17th of October 1890.

Meteorological Division	District	Representative station	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	29·763	29·825	—	?	353	88·2	11th Oct.	71·6	13th Oct.	84·9	76·0	80·5	—	76·7
		Gopalpore	29·779	29·801	—·080	NNW	305	88·7	17th ,,	73·3	17th ,,	84·1	75·3	79·7	—2·4	79·5
		False Point	29·796	29·818	—·061	Variable	333	87·9	11th ,,	73·6	17th ,,	84·0	75·3	79·6	—1·3	78·7
	Cuttack	Cuttack	29·742	29·824	—·069	NE	71	91·4	11th ,,	72·8	17th ,,	86·0	75·3	80·7	—1·9	78·9
	Balasore	Balasore	29·774	29·834	—·066	Northerly	87	88·4	11th ,,	73·8	12, 17 ,,	84·0	75·1	79·5	—1·4	78·3
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	29·814	29·841	—·058	NE	264	89·2	12th ,,	70·0	14th ,,	83·1	75 0	79·0	—3 0	78·8
	Midnapore	Midnapore	29·685	29·836	—·071	NE	281	92·3	11th ,,	73·1	17th ,,	85·4	75·0	80·2	—0·6	78·6
	24-Pergunnahs / Howrah / Hooghly	Calcutta	29·830	29·852	—·061	ESE	82	89·0	11th ,,	71·7	17th ,,	82·1	74·6	78·4	—3·0	78·1
	Burdwan	Burdwan	29·756	29·859	—·053	E	98	91·6	11 & 12 ,,	74·4	14, 16 & 17 Oct.	84·8	75·6	80·2	—2·2	77·6
	Bankoora	Bankoora	29·518	29·823	—·080	Calm	83	90·1	11th ,,	72·6	17th ,,	84·1	73·7	78·9	—3·0	76·8
	Beerbhoom / West Burdwan	Ranegunge	29·520	29·850	—·048	North-Easterly	77	91·5	12th ,,	72·4	14th ,,	84·6	73·7	79·1	—2·5	75·4
	Moorshedabad	Berhampore	29·789	29·857	—·057	Easterly	92	90·1	11th ,,	73·8	14th ,,	82·6	74·4	78·5	—3·4	76·5
	Nuddea	Krishnaghur	29·803	29·852	—·047	South-Easterly	139	91·8	11th ,,	72·3	14, 16 ,,	83·9	73·3	78·6	—2·6	77·6
	Jessore / Khoolna	Jessore	29·824	29·858	—·053	SE	105	91·8	11th ,,	73·4	14th ,,	84·6	75·9	80·3	—2·4	79·0
East Bengal.	Chittagong	Chittagong	29·817	29·908	—·014	Easterly	67	89·7	11th ,,	71·7	11, 13 ,,	86·6	73·6	80 1	—0·9	78·1
	Chittagong Hill Trac	Demagiri	Observations not received.													
	Backergunge	Barrisal	29·864	29·876	—·020	Calm, SE	80	90·8	11th Oct.	74·9	12—14 ,,	84·7	75 6	80·2	—0·6	79·6
	Noakholly	Noakholly	29·872	29·910	+·024	SE	116	89·0	11th ,,	73·3	13th ,,	85·4	75·3	80·4	—0·3	80·2
	Furreedpore	Furreedpore	29·814	29·884	—·031	SE	109	88·0	11, 12 ,,	75·0	13th ,,	84·1	76 3	80·2	—0·4	79·2
	Dacca	Dacca	29·850	29·873	—·032	ESE	136	92·1	11th ,,	75·2	16th ,,	86·5	76·4	81·5	—0·8	79·9
	Commillah	Commillah	29·867	29·903	—·001	SE	82	91·3	11th ,,	73·3	17th ,,	86·1	74·4	80·3	—1·4	79·6
	Mymensingh	Mymensingh	29·831	29·891	—·011	ESE, ENE	106	88·7	12th ,,	73·6	11, 14 ,,	83·0	74·7	78 9	—2·2	76·9
North Bengal.	Bogra	Bogra	29·795	29·859	—·034	Calm	80	89·3	11th ,,	70·1	16th ,,	81·0	73·5	77·3	—3·5	76·5
	Pubna	Serajgunge	29·827	29·874	—·038	Variable	70	89·1	11, 12 ,,	72·2	16th ,,	83·7	74·0	78·9	—3·0	76·6
	Rajshahye	Rampore Beauleah	29·790	29·861	—·036	South-Easterly	108	89·8	11th ,,	71·2	17th ,,	82·3	74·5	78·4	—1·8	76·4
	Maldah	Maldah	29·789	29·875	+·036	NE	93	90·0	11th ,,	67·4	16th ,,	81 4	72·0	76 8	—3·3	74·7
	Dinagepore	Dinagepore	29·771	29·894	—·048	NE & NNE.	195	90·6	12th ,,	66·2	16th ,,	80·5	71·5	76·0	—5·4	74·1
	Rungpore	Rungpore	29·781	29·908	—·017	ENE	144	89 8	11, 12 ,,	66·7	15, 16 ,,	80·8	71·5	76·2	—4·3	74·8
	Julpigoree / Cooch Behar	Julpigoree	29·614	29·909	—·020	?	?	88·4	11 & 12 ,,	62·1	17th ,,	79·9	68·1	74 0	—4·6	73·5
North Bengal.	Darjeeling Hill Tracts	Darjeeling	23·018	—	—·048	ENE	109	63·6	11th ,,	46·2	15th ,,	7·9*	49·0	53·5*	—2·3	53·5
North Behar.	Purneah / North Bhagulpore	Purneah	29·757	29·837	—·028	NE & Calm	109	89·2	12th ,,	67·5	15 & 16 ,,	80·4	71·1	75·7	—4·6	74·5
	Mozufferpore	Mozufferpore	29·691	29·875	—	Variable	163	89·8	12th ,,	66·3	15, 16 ,,	82·5	71·8	77·2	—	76·0
	Durbhunga	Durbhunga	29·731	29·903	—·023	ESE	147	90·4	11th ,,	68·0	16th ,,	82·4	71·5	77·0	—3·6	75·7
	Chumparun	Motihari	29·673	29·905	+·003	Variable	128	90·2	11th ,,	65·8	16th ,,	83·3	70·6	76·9	—1·0	75·7
	Sarun	Chupra	29·680	29·878	—·027	E	86	90·3	12th ,,	69·7	15th ,,	83·0	74·0	78·5	—1·1	75·9
South Behar.	Shahabad	Dehree	29·517	29·879	—·045	Calm	103	90·3	12th ,,	69·0	15, 16 ,,	84·8	71·9	78·3	—1·3	75·8
		Buxar	29·634	29·881	—·034	N.-Ely	110	89·4	12th ,,	66·8	15th ,,	83·9	71·7	77·8	—2·5	76·6
		Arrah	29·676	29·874	—·032	N.-Ely	26	90·9	11, 12 ,,	67·7	16th ,,	84·4	72·2	78·3	—1·8	77·1
	Gya	Gya	29·491	29·879	—·036	N	121	89·9	12th ,,	69·8	17th ,,	84·2	72·6	78·4	—2·4	75·2
	Patna	Bankipore	29·696	29·884	—·038	E	144	89·4	11th ,,	69·2	15 & 16 ,,	82 7	72·8	77·7	—3·5	76·4
	South Shagulpore / Monghyr	Bhagulpore	29·696	29·862	—·038	E	115	89·2	11th ,,	67·5	16th ,,	80·7	71·4	76·0	—4·0	74·7
Chutia Nagpur.	Sonthal Pergunnahs	Doomka	29·353	29·861	—·047	Variable	130	88·6	11th ,,	70·3	16th ,,	81·2	72 3	76·8	—3·5	75·2
	Hazaribagh	Hazaribagh	27·829	29·872	—·067	Northerly	[illegible]	84·9	12th ,,	61·3	17th ,,	79·3	66·8	73·0	—4·7	69·7
	Lohardugga / Manbhoom	Ranchee	27·709	29·866	—·062	NW	146	83·5	12th ,,	62·4	16th ,,	78·9	65·6	72·4	—3·8	70·3
	Singbhoom	Chyebassa	29·084	29·839	—·060	Calm	46	89·4	11th ,,	70·7	15 & 17 ,,	85·3	72·3	79·0	—1·8	76·2
Assam.	Assam	Sibsagar	29·651	29·982	+·021	NE		89·6	11th ,,	69·9	15th ,,	82·0	71·3	76·6	—2·5	76·7
		Dhubri	29·804	29·925	—·008	ENE	312	87·2	11th ,,	61·9	15th ,,	78·8	70·5	74·7	—5·2	73·4
		Silchar	29·809	29·917	—·003	Calm		92·5	11 & 12 ,,	71·8	13th ,,	89·3	73·2	81·3	—0·1	77·3

* Mean of six days.

DISTRICT OBSERVATIONS. Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.
88	7·6	2·02		2·4		4·80			48·91			2·2	Pooree	Pooree
90	4·9	0·72											Gopalpore	
91	8·9	9 33											False Point	
85	7·3	4·30	0·35	1·31	6·57	3·22	+3·35	60 62	47·27	+13·35	4·8	1·9	Cuttack	Cuttack
91	5·9	8·41	7·68	1·58	8·05	3·66	+4·39	59·17	50·17	+9·00	4·8	1·8	Balasore	Balasore
93	8·6	13·13	12·88	2·62	15·02	4·47	+0·55	62·30	57·65	+4·65	6 0	1·9	Saugor Island	South-West Midnapore / South 24-Pergunnahs
85	4·6	4·47	4·36	1·56	4·60	2·93	+1·67	49·87	49·17	+0·70	5·3	1·8	Midnapore	Midnapore
91	7·0	5·72	6·63	1·61	6·89	3·01	+3·88	54·68	49·40	+5·19	5·5	1·5	Calcutta	24-Pergunnahs / Howrah / Hooghly
89	8·7	3·37	3·75	1·60	4·72	2·87	+1·85	60·89	44·68	+16·21	5·3	1·3	Burdwan	Burdwan
91	7·6	4·74	4·87	1·22	5·34	2·56	+2·78	52·01	50·40	+1·61	5·5	1·2	Bankoora	Bankoora
92	6·9	7·53	6·97	1·26	7·32	2·70	+4·62	62 89	50·65	+12·24	5·3	1·1	Ranegunge	Beerbhoom / West Burdwan
90	8·6	5·89	6·74	2·05	7·15	3·64	+3·51	50·93	49·05	+10·88	5·5	1·4	Berhampore	Moorshedabad
90	8·3	7·14	7·88	1·53	8·51	3·03	+5·48	54·76	47·11	+7·65	5·4	1·3	Krishnaghur	Nuddea
93	8·3	6·34	5·02	1·59	5·52	3·00	+2·52	51·14	50·76	+0·38	5·4	1·5	Jessore	Jessore / Khoolna
87	6·4	2·74	1·88	1 79	2·44	4·48	—2·04	110·24	103·32	+7·92	3·0	2·0	Chittagong	Chittagong
			2·65	1·81	3·05	5·30	—2·25	71·65	75·97	11.2	3·2	2·3	Demagiri	Chittagong Hill Tracts
88	7·1	3·28	4·53	1·94	5·87	3·97	+1·90	66·36	72 79	—6·43	5·3	1·8	Barrisal	Backergunge
88	2·1	6·01	4·12	2·23	5·82	4·95	+0·87	93·87	101·74	—7·87	4·0	1·9	Noakholly	Noakholly
91	6 0	2·32	3·33	1·84	4·22	3·33	+0·89	42·11	53·42	—11·31	4·7	1·4	Furreedpore	Furreedpore
88	7·0	0·96	1·62	1·70	2·23	3·17	—0·94	55·24	57·47	—2·23	6·8	1·2	Dacca	Dacca
85	4·0	4·51		1·58		3·84			65 66			1·3	Commillah	Tipperah
91	7·6	4·00	5·47	1·96	7·02	4·00	+3·02	73 67	66·71	+6·96	4·6	1 5	Mymensingh	Mymensingh
91	7·9	12·28	11·07	1·01	11·14	3·58	+7·56	78·30	55·07	+22·6	5·3	1 3	Bogra	Bogra
93	8·7	6·67	4·90	1·84	5·27	3·29	+1·98	54·02	51·21	+2·81	2 2	1 4	Serajgunge	Pubna
90	5 7	8·13	8·82	1·50	9·68	3·02	+6·66	74·59	51·96	+22·63	5·7	1·4	Rampore Beauleah	Rajshahye
79	6·9	6·71	7·53	0·89	7·60	2·81	+4·79	63·12	53·51	+9·61	5·5	1·2	Maldah	Maldah
91	8·1	14·44	11·25	1 15	11·43	3·06	+8·37	81·73	55,62	+26·11	4·4	1·1	Dinagepore	Dinagepore
90	4·7	20·38	16·45	1·61	18·14	3·99	+14·15	106·47	72·18	+34·29	4·3	1·1	Rungpore	Rungpore
92	4·9	13·25	12·73	1·35	14·90	4·20	+10·76	154·40	109·05	+46·44	4·2	1·5	Julpigoree	Julpigoree / Cooch Behar
94	8·0	10·17	10·44	1·29	13·82	4·25	+9·57	165·12	117·40	+47·72	5·0	1·4	Darjeeling	Darjeeling Hill Tracts
94	7·6	6·22	5·81	0·83	6·23	2·70	+3·53	80·67	57·07	+23·60	3·2	1·0	Purneah	Purneah / North Bhagulpore
96	7·0	1·32	1·60	0·50	1·71	2 66	—0·95	52·49	42·13	+10·36	5 7	0·7	Mozufferpore	Mozufferpore
88	6·6	2·35	1·73	0·50	1·73	2·27	—0·54	57·62	43·21	+14·41	3·7	0·7	Durbhunga	Durbhunga
87	5·1	6·28	5·39	0·71	5·51	3·27	+2·24	68·31	46·16	+22·15	3·0	0·8	Motihari	Chumparun
92	4·4	1·03	1·48	0·64	1·48	3·61	—2·13	53·60	41·07	+12·53	2·3	0 9	Chupra	Sarun
86	6·4	0·35											Dehree	Shahabad
86	5·9	1·92	1·09	0·53	1·87	3·63	—1·16	49·52	38·17	+11·35	2·0	0·8	Buxar	
84	5·7	2·18											Arrah	
88	7·6	0·32	0·41	0·83	0·42	2·29	—1·87	56·92	40·02	+16·90	2·3	0·7	Gya	Gya
84	7·6	1·03	1·27	0·54	1·34	2·34	—1·00	48·10	39·51	+8·59	3·8	0·9	Bankipore	Patna
92	8·4	5·39	5·07	0·57	5·17	2·25	+0·92	52·2[illegible]	41·48	+70·77	4·4	0 8	Bhagulpore	South Shagulpore / Monghyr
91	7·3	11·45	9·04	1·98	10·15	2·84	+7·31	63·21	[illegible]	+13·96	5·8	1·3	Doomka	Sonthal Pergunnahs
92	7·6	0·86		0·86		2·46			48·53			1·3	Hazaribagh	Hazaribagh
87	8·3	1·55	0·62	0·61	1·63	1·22	—0·29	47·01	46·40	+0·61	2·3	1·3	Ranchi	Lohardugga / Manbhoom
			3·33	0·76	3·51	2·49	+0·82	41·43	45·32	—3·89	5·5	1·2		
86	7·6	0·91	3·23	0·68	3·31	1·77	+1·54	41·43	49 24	—7·81	5·9	1·5	Chyebassa	Singbhoom
95	9·3	1·81											Sibsagar	Assam
91	8·0	5·71											Dhubri	
89	9·1	2·36											Silchar	

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.

The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers denoting cloud amount represent the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal mean are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past ten years. The means of the district are the numerical average of the rainfall return received in the districts, *i.e.*, from total rainfall of the subdivisions in the district reading in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fall.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 17th of October 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 11th October.	Sunday, 12th October.	Monday, 13th October.	Tuesday, 14th October.	Wednesday, 15th October.	Thursday, 16th October.	Friday, 17th October.	Number of rainy days.	Rainfall of week.				
Orissa ...	Pooree ...	Pooree ...	0·50	2·25	4·39	1·29	1·06	.....	.....	5	8·49	8·63	6·49	64·43	48·56
		Khurdah ...	.....	1·62	2·63	0·24	.....	.....	0·81	4	5·29	6·94	4·22	63·10	51·40
		Banpur ...	0·16	3·94	1·67	0·17							5·06		43·91
		False Point ...	0·73	2·14	4·70	1·63	0·92	.....	0·11	6	9·33	9·93	6·45	61·63	56·74
		Gop ...	1·50	3·20									?		?
		Satpara ...	0·25	4·05	2·46	0·25							?		?
		Pipli ...	1·90	2·64	0·35								?		?
	Cuttack ...	Jagatsingpore	1·78	1·59	1·90	0·30	0·69	0·89	.....	6	6·88	6·88	4·16	59·50	43·49
		Banki ...	0·02	1·67	1·50	0·18	0·01	.....	0·12	6	3·50	4·17	2·50	60·54	43·98
		Cuttack ...	.....	2·46	5·15	0·63	.....	.....	0·96	4	3·44	3·44	2·96	56 10	51·66
		Kendrapara ...	0·19	3·77	2·61	0·10	.....	.....	.....	4	6·09	7·13	5·42	52·34	46·45
		Jajpore ...	.....	3·30	1·25	0·37	.....	.....	1·40	4	6·23	6·23	3·10	53·60	49·45
		Dharmsala ...	2·50		2·40								?		?
		Salipore ...	.....	3·26	0·64	2·30							?		?
	Balasore ...	Chandbali ...	.....	.....	4·38	11·04	.....	1·91	.....	3	7·33	7·86	4·44	50·97	48·39
		Bhuddruck ...	.....	5·00	1·45	0·28	.....	0·70	.....	4	7·41	8·56	2·80	54·59	48·23
		Sorah ...	1·30	2·90	1·00	0·35	.....	.....	0·20	5	5·75	5·85	3·65	59·59	46·12
		Balasore ...	0·09	3·15	1·57	1·48	.....	0·94	0·73	6	8·61	8·69	4·08	65·39	53·89
		Jellasore ...	.....	1·29	2·30	3·54	.....	1·80					3·84		49·95
		Baripodah ...	0·36	2·02	1·77	0·28	1·20	0·46	0·35	7	7·04	7·29	3·07	70·16	51·61
South-West Bengal.	Midnapore ...	Contai ...	0·40	2·40	1·72	2·40	0·22	1·78	0·60	7	16·52	16·76	4·48	62·43	56·03
		Saugor Island	.....	1·17	1·49	4·80	4·75	0·92	.....	5	13 13	18·09	2·71	63·94	61·74
		Tumlook ...	.....	0·59	1·10	4·00	0·50	0·70	0·10	6	6·90	7·10	2·03	57·90	46·50
		Midnapore ...	.....	.....	0·92	1·33	...	1·65	0·60	4	4·50	4·72	3·04	47·09	45·96
		Ghattal ...	.....	0·02	0·15	1·02	0·09	0·22	0·18	6	1·68	1·98	3·12	44·61	(53·06
		Kuirahaty ...	.....	1·53	1·34	5·76	0·34	0·12	0·06	6	9·15	9·15		49·19	?
		Garbetta ...	.....	.....	0·74	1·80	0·25	.....	0·59	4	3·38	3·56	?	46·21	?
	24-Pergunnahs	Diamond Harbour ...	... ...	0·56	1·20	5·28	0·68	0 23	1·05	6	8·99	10·22	3·22	60·54	55·22
		Canning Town	.....	.....	0·87	2·07	4·02	4·58	0·71	5	12 85	13·39	?	66·05	?
		Alipore Jail ...	.....	... ..	0·94	1·33	2·12	0·43	1·30	5	6·12	8·17	2·88	60·40	52·72
		Barrackpore...	.....	0 96	1·30	1·24	1·20	3·05	0·35	6	7·20	8· 5	2·64	50·55	47·18
		Dum-Dum ...	.....	.....	0 72	1·55	1·13	2·14	3·82	5	9·35	11·39	2·09	55·10	49·25
		Baraset ...	.....	(·80	0·59	2·25	1·25	1·30	4·12	6	9·74	11·09	3·30	54·76	47·48
		Busserhat ...	.....	.....	0·65	2·87	3·10	1·31	0·24	5	8·17	9·91	3·23	57·69	52·55
	Howrah ...	Howrah ..	... ..	...	0·86	1·25	1·63	0·45	1·96	5	6·15	6·95	2·96	51·23	48·42
		Mohesreka ... (*Colobertah*)	.... .	....	0·60	3·15	1·10	0·23	0·02	5	5·10	5·28	2·80	59·57	50·14
	Hooghly ...	Serampore ...	.....	0·23	0·97	1·21	1·20	1·28	2.23	6	7·09	7·98	3·09	53·84	48·11
		Hooghly ...	.....	1·38	0·27	0 66	1·16	0·79	0·61	6	4·87	6·20	2·83	51·98	46·90
		Jehanabad ...	0·57	.....	0·11	1·49	0·13	0·21	0·15	6	2 66	3·21	3·27	51·57	53·00
	Burdwan ...	Culna ...	.....	.....	0·73	0·80	0·22	0·40	0·22	5	2·37	3·07	2·01	54·11	42·34
		Burdwan ...	0·02	0·04	1·09	1·30	0·51	0 40	0·01	7	3·37	3·50	2·76	64·97	46·01
		Cutwa ...	.....	1·31	1·17	0 21	2 83	.....	....	4	5·52	6·69	2·90	63·56	45·77
		Raneegunge ...	... ...	2·07	0·89	3·02	1·58	0·11	.....	5	7·53	7·54	2·57	59·15	47·62
		Mankur ...	.....	.....	0·36	1·62	0·78	0·09	.....	4	2·89	3·38	?	47·80	?
	Bankoora ...	Bankoora ...	... ...	0·32	0·76	3·34	0·30	0·04	.....	5	4·76	4·76	3·00	57·76	49·47
		Bishenpore ...	0·24	1·32	1·39	0·55	0·13	0·04		7	4·31	4 66	1·69	50·95	36·32
		Maliara ...	0·92	0·03	0·85	2·72	0·83	0·10	... ..	6	5·45	5·92	2·56	59·23	47·03
		Khatra ...	... ..	0·18	1·38	3 30	0·10	.....	.....	4	4·96	6·02	2·97	40·06	36·69
		Indas ...	.....	0·21	1·40	1·71	1·13	0·29	0·05	6	4·79	5·74	?	59·97	?
		Kotalpore ...	0·09	0·83	0·33	0·79	2·38	0·31	0·15	7	4·88	6·64	?	66·94	?
		Anda ...	.....	2·40	... ..	3·00	3 00	0·40	.....	4	5·80	9·20	?	58·11	?
		Gangajalghati ...	.....	0·59	0·55	2·80	0·13	.....	.....	4	3·87	3·87	?	63·75	?
		Raipore ...	0·39	0·12	2·12	1·98	0·65	0·09	.....	6	5·35	6·13	?	53·29	?
		Sonamukhi ...	0·61	. ..	0·85	1·96	0 99	0·10	.....	5	4·51	4·51	?	52·74	?
	Beerbhoom ...	Bh. Soory ...	.....	.....	0·92	3·06	1·39	0·10	0·09	5	5·56	5·87	2·57	61·48	51·86
		Hetampore ...	1·77	.....	0·79	2·79	2·55	0·12	.....	5	8·02	8·63	2·48	59·15	53·19
		Rampore Haut	.....	.....	0·85	4·50	1·64	0·28	0·06	6	7·33	8·08	3·23	72·36	49·92
		Bolpore ...	.....	...	0·87	2·76	0·60	0·10	.....	4	4·03	4·03	?	56·23	?
		Murarai ...	.....	... .	1·10	4·71	1·30	.....	....	3	7·11	7·11	?	56·46	?
	Nuddea ...	Ranaghat ..	.....	...	0·76	0·90	1·74	1·67	1·66	5	6·73	7·27	2·67	55·23	44·93
		Kishnaghur ...	.....	0·25	0·93	0·49	0·56	2·37	2·68	6	7·28	7·55	3·40	61·34	44·20
		Chooadanga ...	.....	0·30	1·01	1·05	0·35	3·80	0·85	6	7·36	7·77	3·03	46·68	42·71
		Meherpore ...	.....	0·75	0·10	0·56	0·35	4·20	.....	5	11·94	13·19	2·57	58·80	46·71
		Koushtea ..	.....	.....	0·49	0·60	0·88	2·40	1·72	5	6·08	6·75	3·51	51·95	53·05
	Khoolna ...	Satkhira ...	.....	0·40	0·34	1·89	1·18	0·24	0 76	6	4·81	5·44	3·30	55·88	38·28
		Bagirhat ...	.....	.....	1·13	1·01	0·48	1·11	.....	4	3·83	3·83	3·88	39·99	38·51
		Khoolna ...	.....	0·16	0·75	1·05	1·39	1·33	0·39	6	5·69	6·75	2·64	51·96	31·93
		Nakipur ...	.....	.....	2·30	1·94	0·71	0·90	1·93	5	7·80	9·18	?	66·96	?
		Rampal ...	.....	1·09	1·25	1·89	2·03	2·51	0·23	6	9·00	9·18	?	69·99	?
	Jessore ...	Narail ...	.....	.....	0·61	1·00	1·15	0·54	0·15	5	3·65	4·41	1·97	43·35	29·11
		Jessore ...	.....	0·02	0·45	1·08	1·76	2·47	0·56	6	6·34	7·03	2·75	56·76	31·51
		Jhenidah ...	.....	.....	1·26	1·50	0·22	0·99	0·85	5	4·82	4·97	3·26	56·18	31·65
		Magoorah ...	.....	.....	0·77	0·44	1·11	1·29	0·14	5	3·66	3·66	2·76	2·78	27·36
		Bongong ...	.....	1·05	0·75	0·85	1·90	2·65	0·25	6	7·45	8·05	3·30	46·21	49·28
	Moorshedabad	Kandi ...	.....	.....	0·68	1·18	1·36	0·34	.....	4	3·56	3·81	3·28	64·69	49·49
		Berhampore...	.....	0·08	0·29	2·29	2·10	1·13	.....	5	5·89	6·73	3·85	58·85	49·75
		Lalbagh ...	0·04	0·06	0·99	2·10	2·43	1·25	0·16	7	7·03	7·14	3·96	63·28	49·69
		Asimgunge ...	.....	0·16	0·43	2·00	1·62	2·15	0·30	6	6·55	6·55	4·10	57·97	49·47
		Jungipore ...	.....	.....	0·94	2·95	2·54	1·60	0·98	5	8·11	8·32	2·70	51·24	47·96
		Lalgola ...	.....	0·15	1·80	2·35	...	2·40	0·15	6	9·30	9·30	3·96	54·70	50·06
		Jiagunge ...											?		?
		Akheriguni ...	0·85	0·75	.....	1·30	1·40	2·69	0·28	6	7·18	8·28	?	61·39	?
		Pathakari ...	0·99	0·70	0·70	... ..	2·80	0·30					?		?
East Bengal.	Chittagong ...	Cox's Bazar ...	.....	0·13	0·23	.....	.....	.....	0·78	3	1·91	1·13	4·79	138·72	107·61
		Chittagong ...	.....	.....	1·36	.....	.....	.....	0·81	2	2·36	2·25	6·17	146·19	99·25
		Kutubdia ...	0·47										?		?
		Sandoway ...	0·50	.....	0·85								?		?
	Chittagong Hill Tracts	Rangamati ...	0·25	0·95	.....	.....	0·15	0·48	.....	4	1·79	2·61	5·13	67·90	78·98
		Rama ...	1·43	.....	.....	.....	.....	.....	2·05	3	3·50	3·50	5·67	78·41	96·13
	Chittagong	Patuakhally...	.....	0·07	3·20	1·09	0·27	.....	0·78	5	6·26	6·41	4·66	77·26	88·98
		Feringapore ..	.....	0·21	0·26	2·91	0·75	.....	0·04	5	3·97	3·99	4·09	61·25	67·13
		Barrisal ...	.....	0·10	0·15	0·78	0·15	.....	0·12	5	2·30	2·43	5·23	62·15	68·88
		Monia ...	0·13	0·72	1·25	0·75	.....	.....	0·07	5	2·97	2·94	4·27	63·03	69·13

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 17th of October 1890 —contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 11th October.	Sunday, 12th October.	Monday, 13th October.	Tuesday, 14th October.	Wednesday, 15th October.	Thursday, 16th October.	Friday, 17th October.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
East Bengal —contd.		*Gournadde* ...	.....	0·55	2·85	... .	0·60	0·18	.. .	4	3·98	3·98	?	41·15	?
		Baushal ...	.....	0·86	3·50	0·50	.....	.....	0·08	4	4·94	6·74	?	71·06	?
	Noakholly ...	Noakholly ...	0·08	.....	4·75	0·35	....	0·28	0·13	5	5·59	5·90	5·20	88·16	103·13
		Feeny ..	0·15	.....	1·95	0·55	.....	...	... .	3	2·65	3·70	4·50	90·57	100 24
		Harishpore ...	.....	2·20					0·23				?		?
		Ramgany ...											?		?
	Furreedpore	Madaripore ..	.....	.....	2·30	.....	1·22	1·45	0 05	4	4·02	4 31	3·21	37·51	53·63
		Furreedpore...	.....	0·25	0·13	0·73	0·57	0·93	... .	5	2·61	3·06	3·78	46·03	55·72
		Goalundo .	.....	0·57	... ..	0·15	0·50	0·81	0·26	5	3·29	4·38	3·60	42·79	50·84
	Dacca ...	Munshigunge	0·05	0·11	0·26	0·25	0·20	... .	... .	5	0·87	1·07	4·00	54·68	66·90
		Dacca ..	.....	0·85	0·41	0·11	0 10	0 33	0·20	6	2·00	3·12	3 08	51·04	56·62
		Naraingunge	... ...		0·39	.....	0·28	.. .	.....	2	0·67	3·02	2·70	58·41	58·21
		Manickgunge	0·13	.....	1 21	0·28	0·54	0·82	0·05	6	3·03	0 96	2 86	56·23	47·90
		Joydebpore ..	... ..	0·46	0·30	0·19	0·06	0·60	0·01	6	1·62	2·45	?	62·36	?
	Hill Tipperah	Agartola ...	.....	.....	1·55							3·75	3·33		
	Tipperah ...	Comilla ...	.....	0·94	2·57	0·56	0·03	.....	0·34	4	4·40	4·50	3 24	63·53	57 80
		Chandpore ...	.....	... ..	1·05	1·02	....	0·35	0·12	2	2·54	2·72	5·21	54 38	72·97
		Brahmunberia	.....	.....	0·30	0·32	.....	0·10	.....	3	0·72	1·07	3·51	50·34	72·80
		Ramchandra-pore ...	0·17	0·21	0·46								?		59·10
		Nasirnagar...											?		?
		Daudkandi ...	.....	.....	0·79	0·15	0·05	3·04	.....	4	1·03	1·03	?	26·26	?
		Kasba ...	.....	0·27	0·05								?		?
		Laksham ..	... ...	....	1·82	... .	.....	.....	.....	1	1·82	1·82	?	67·15	?
	Mymensingh..	Kishoreegunge	.....	.....	0·21	.....	... .	1·20	0·21	3	1·62	4·20	4·25	66·97	67·69
		Atia (*Tangail*)	0·46	0·70	1·76	0·06	0·37	1·48	0·57	7	5·60	6·96	3 65	53·82	53·36
		Mymensingh	...	.....	0·15	0·80	0 44	2·34	0·37	4	4·10	4·09	4 20	75·81	71·35
		Jamalpore ...	0·82	....	0·73	0·50	1·59	7·45					3·85		63·08
		Netrokona ...	.....	.....	0·60	3·20	0·18	0·87	.....	4	4·85	7·55	4 03	93·17	77·97
		Subornakhali	.....	.....	0·60	0·80	0·65	3·95	0·08	5	6·14	6·10	?	57·16	?
		Durgapore ...	.....	.....	0 69	0·50							?		?
		ShereporeTown	.....	.....	0·67	1·30	1·42	4·75	0·35	5	8·49	9·15	?	67·08	?
		Dewanganj ...	.....	.....	1 42	6·50	1·80						?		?
North Bengal.	Pubna ...	Pubna ...	... ..	.....	0·48	0·32	0·54	1·39	0·51	5	3·14	3·53	3·18	47·47	51·87
		Serajgunge ..	0·16	.....	1·15	1 48	1·16	2·87	0·01	6	6·83	7 00	3 09	62·56	59·59
	Bogra ...	Sherepore ...	.....	.. ..	0·31	3·41	2·10	3·74	0·48	5	10·04	10·07	3·30	77·16	58·34
		Nowkhilla ...	0·36	.....	0·50	0 72	2·77	5·27	.....	5	9·62	9·62	4·26	65 80	52·40
		Bogra ...	.....	.. ..	0·58	4·35	3·32	3·32	0·23	5	11·80	11·80	2·96	78 98	59·14
		Panchbibi ..	.....	0·29	0·95	2·00	7·28	2·00	0·31	6	12·83	13·05	3·80	91·46	54·75
	Rajshahye ...	Beauleah ..	0·01	0·37	2·03	2·18	1·03	1·87	0·71	7	8·20	10·31	3·05	71·22	51·44
		Nattore ...	.....	... ..	0·20	1·88	1 45	2 35	3·30	5	9 08	9 16	3·50	80·45	53·09
		Naogaon ...	... .	1·03	0·02	3·07	2·16	1·10		5	9·18	9·57	1·85	66 09	51·38
		Lalpore ...	. .	0·20	0·93	0·90	2·80	0·85	0·48	6	6·16	8 18	?	51·90	?
		Manda ...	..	0·20	5·20	3·10	3·17	0·20	.... ..	5	11·79	12·10	?	47 26	?
	Maldah ...	Maldah .	.... .	0·10	0·17	2·05	2·34	0·70	0·45	6	6·73	6·87	3·19	64·32	49·02
		Chanchal ...		... ..	0·37	1·38	0·23	0·18	0·15	5	8·33	8·53	2·45	59·02	55·06
		Gajol ...	....	.....	0·9	1·50	2·83	1·00	0·19	5	6·42	6·52	?	84 40	?
		Sibganj ...	.....	0·30	0·79	2·44	3·22	4·80	1·55	5	13·10	13·10	?	62 51	?
	Dinagepore ...	Mohadebpore ..	..	0·15	2·00	4·50	1·20	0·50	...	5	8·35	8·51	2·72	67·04	55·54
		Churamon ..	.....	... ..	0·65	1·95	6·08	0·36	0·14	5	9·78	9·78	2·29	80·28	54·87
		Raigunge ..	... ..	... .	... .	5·00	7 52	0·05	... ..	3	13·77	14·77	3·64	92·75	57·38
		Dinagepore	.....	. ...	... .	1·70	10·70	1·55	0·38	4	14·33	14·73	3 45	86 70	61·71
		Balooghar	.....	... ..	0·43	2·20	6·04	1·11	0·28	5	10·04	10 39	3·21	81·01	51·72
		Thakoorgaon	.....	... ..	1·41	12·30	3·22	0·27	.....	4	17·20	17·31	?	107 04	?
	Rungpore ...	Bhawanigunge (*Gyabanda*)	.....	.....	.....	2·05	13·30	2·90	... ..	3	18·25	20·40	4·06	133·20	60·90
		Rungpore ...	.....	.....	... .	3·50	14·06	0 68	0·50	4	18·74	19·91	3 91	90 52	72·58
		Kurigram .	....	... .	0·26	3·43	10·10	0·85	0·03	5	14·07	17·57	3 78	90·59	71·90
		Bagdorra (*Nilphamari*)	.....	.....	0·25	2·32	9·75	1·71	0·11	5	14·44	15·37	4·20	11·24	83·38
		Ulipore ...	.....	.....	.....	2·82	12·26	1·27	... ..	3	16·35	17·78	?	97·52	?
	Julpigoree ...	Julpigoree ...	... ...	. .	.....	2·45	6·26	3·61	0·72	4	13·04	18·29	3·58	156·26	114·58
		Alipore Dooar	... ..	... .	... .	2·61	5·81	2·92	... .	3	11·34	14 27	?	187·47	?
		Fallacotta ...	.....	. ...	...	4·22	5·20	2·17	0·15	4	11·74	10 50	?	146·50	?
		Debigang ..	.....	..	.....	2·06	6 45	2·05	0·14	4	11·30	13·22	?	115·0	?
		Bhagatpore (*Nagrakatta*)	....	.....	.. ...	2·12	4·50	2 79	1·00	4	10·41	15·24	?	182·34	?
	Cooch Behar..	Dinhata .	.....	.....	.....	3·00	12·11	1 05	0·06	4	16 22	16·98	4·31	128·05	98·59
		Cooch Behar .	.....	.....	0·08	4·30	5·81	1·30	... .	4	11·49	12·49	4·38	169·37	116·87
		Mekliguntee .	.... .	0·09	.....	1 92	5·04	3 00	0 31	5	10·36	13·01	3·20	146 55	104·04
		Mainbhanga...	.....	....	.....	3·04	6 57	1·94	0·38	4	11·93	14·04	5 57	171·51	111·14
	Darjeeling Hill.	Buxa ...	.....	.....	.....	1·87	6·00	2 31	0·20	4	10·38	19·65	7·03	109·61	187·51
		Siliguri ...	.....	0·25	.....	1·24	5·43	1·88	1·23	5	10·00	13·36	3·33	178·31	101·58
		Darjeeling ..	....	... ..	....	0·76	6·37	1·09	1·46	4	10·17	10·50	3·69	150·29	103·82
		Kalimpong .	0·15	0·13	0·02	1 14	6·20	1·44	2·11	7	11·19	11·76	2·34	122·32	76 65
		Kurseong ...	.....	. ....	.....	1·48	5·60	2 70	2 55	4	13·33	12·61	?	192·38	?
North Behar	Purneah ...	Kissengunge...	... ..	.....	.....	2·09	9·75	1·16	0·06	4	13·06	13·32	2·91	195·38	68·70
		Arrarsah ..	.....	.....	.....	1·70	3·92	0·49	...	3	6·02	6·43	2·76	85·78	62·32
		Purneah ..	.....	... ..	.....	1·50	4·28	0·37	0·07	4	6·22	6·68	2·66	84 86	59·61
		Gondwara ...	.....	0·10	1·05	3 30	0·43	0·27	.....	6	5·05		?		?
		Baierampore	...	.....	1·30	4·20	5·30	1 05	...	4	13·05	12·75	?	10·45	?
		Mussari ...	.....	.....	1·27	2·5	0·00						?		?
		Kaliagunj ...	.....	.....	.....	1·20	4·09	1·14	0·24	4	6·58	7·40	?	119·55	?
	North Bhagul-pur	Maddapore .	.....	.....	.....	1·0	1·30	0·09	... .	5	2·41	3·23	3·50	61·61	48·16
		Sopee ..	.....	.....	.....	0·40	0·80	.....	.....	2	1·35	1·50	2·15	63·21	46·79
		Pratabganj...	.....	.....	.....	1·55	0·20	. .	. .	2	1·81	2·56	?	49·30	?
	Durbhunga ...	Tajpore .	.....	.....	.....	0·62	0·07	0 04		3	0·73	0·73	2·53	51·70	41·69
		Durbhunga .	.....	.....	.....	1·8	1·24	0·11	...	4	2·35	2·38	2 36	53·54	44·43
		Madhuban .	.....	.....	.....	0·01	0 9	0·31	0·10	4	2·09	2·09	1·94	62·61	43·58
		Bahera .	.....	.....	.....	1·03	.....	0·23	..	2	1·26	1·84	?	52·59	?
		Boshare ...											?		?
	Monufferpore	Sitamarhi ...	.....	.....	.....	0·53	1·05	0·87	0·11	4	2·54	2·61	2·27	52·96	43·32
		Monufferpur	.....	.....	.....	0·67	0·53	0·37	0·12	4	1·56	1·56	2·99	55·13	45·40
		Hajipore .	.....	.....	.....	0·52	0·18	0 46	...	3	0·96	0·96	2·43	49·87	40·59
		Para .	.....	.....	.....	.....	4·09	2·00	...	2	6·00	6·00	?	70·81	?
		Rahea .	.....	.....	0·22	0·11	0·09	.....	...	2	0·42	0·42	?	44·45	?
		Sitahar .	.....	.....	.....	.....	2·10	2·30	0·10	3	4·50	4·50	?	53·18	?
		Pupri ...	.....	.....	.....	.....	1·37	0·30	0·17	3	1·84	1·84	?	50·19	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 17th of October 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 11th October.	Sunday, 12th October.	Monday, 13th October.	Tuesday, 14th October.	Wednesday, 15th October.	Thursday, 16th October.	Friday, 17th October.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —concluded.	Chumparun...	Motihari ..	.....	.....	.....	.....	4·13	1·81	0·24	3	6·13	6·18	3·13	71·78	43·63
		Bettiah ...	.....	... ..	... .	.....	1·27	3·16	0·17	3	4·60	4·84	3·40	64·84	47·59
		Bagaha ...	. ...	.....	... ..	0·12	3·00	0·04	0·23	4	3·39		?		?
		Burhurwa ...	.....	... ..	.....	.....	1·19	0·72	0·11	3	2·02	2·10	?	58·34	?
	Sarun ...	Gopalgunge ...	.....	.....	.... .	0·63	0·94	0·10	.....	3	1·67	1·67	4·76	52·67	42·25
		Sewan .	.. .	.....	. ...	0·64	...	.....	.....	2	0·81	0·81	3·07	59·84	42·05
		Chuprah ...	.....	....	.....	1·85	0·10	... .	.....	2	1·95	1·95	4·81	48·27	38·92
South Behar	Shahabad	Buxar ...	.....	..	.....	0·34	1·24	.....	.....	2	1·58	1·58	2·38	52·25	40·43
		Dehree ..	... ..	.....	.....	0·09	0·26	.....	.....	2	0·35	0·38	2·19	43·14	38·66
		Bhabooah ...	... ..	.....	.....	0·31	... ..	...	.....	1	0·31	0·31	2·33	41·11	38·92
		Sasseram ...	.....	.... .	.....	0·35	0·59	.. ..	.... .	2	0·94	0·94	2·64	44·19	38·58
		Arrah ...	.....	.....	.....	0·04	2·11	0 13	... .	3	2·28	3·17	2·59	60·84	38·89
		Mohanah ...											?		?
	Gya .	Aurungabad...	... .	0·07	....	.....	0·41	.....	. ....	2	0·51	0·51	2·43	59·40	41·36
		Gya ...	.....	... ..	.....	0·16	0·15	0·01	.....	3	0·32	0·34	1 67	60·04	40·87
		Nowadah ...	.....	... .	.....	0·43	.....	...	.....	1	0·43	0·43	2 02	54·84	38 36
		Jehanabad ...	.....	.....	.....	0·22	0·13	0·03	.....	3	0·38	0·38	3·03	53·31	39·40
		Arwal ...											?		?
		Daudnagar...											?		?
		Sherghati ...	.....	...	.....	... ..	0·72	.. ..	... ..	1	0·72	1·67	?	36·81	?
		Rajauli .	... ..	.....	.....	0·34	0·20	.... .	.....	2	0·54	0·80	?	45·60	?
		Pakri Barawan	1·00	.....	.....	0·60	0·22	0·15	.....	4	1·97	2·97	?	54·24	?
	Patna ..	Patna ...	.....	.....	.....	.....	0·40	0·58	0·04	3	1·02	1·02	2·45	50·02	40·17
		Dinapore .	.....	. ..	.....	0·25	1·35	0·10	.....	3	1·70	1·97	2·35	52·13	39·75
		Behar ...	.....	.....	.....	0·47	0·17	0·47	...	3	1·11	1·11	2·28	46·95	40·00
		Barrh ...	...	... .	... ..	1·00	0·10	0·05	0·10	4	1·25	1·25	2·26	47·25	38·05
		Bickram ...	.....	.....	. ..	0·25	0·56	0·04	. ...	3	0·83	0·83	?	57·80	?
		Hilso .	... .	.....	0·13	0·13	0·33	0·48	.....	4	1·07	1·07	?	50·24	?
	Monghyr ...	Begoosera ...	0·45	.....	...	1·50	0·27	0·04	.....	4	2·26	2·26	2·12	44·29	38·16
		Monghyr	.....	.....	0·22	0·06	0·08	0·09	0·03	5	2·28	2·56	2 43	54·84	41·06
		Jamui ..	0·34	.....	....	1·49	0·19	...	.....	3	2·02	2·14	1·91	60·22	42·04
		Gogri ...	. . .	.....	....	1·80	2·54	.....	.....	2	4·34	4·34	?	76·44	?
		Sheikpura ...	... .	....	... .	1·45	..	0·52	.....	2	1·97	1·97	?	47·76	?
	South Bhagulpore	Bhagolpore ..	.....	... .	0·40	1·28	3·03	0·64	0·06	5	5·41	5·41	2·96	59·77	40·65
		Banka	.....	.....	1·04	1·75	0·54	0·03	0·02	5	3·37	3·63	2·32	42·11	41 88
		Kahgaon ...	.....	... .	0·43	1·81	2·53	0 25	0·50	5	5 52	5·77	?	62·06	?
		Bongaon ...											?		?
	Sonthal Pergunnahs.	Rajmehal ...	.....	0·15	0·54	2·92	4·48	0·29	0·11	6	8·48	8·50	2·46	56·86	50·80
		Godda ...	0·03	...	1·40	2·25	0·08	0·10	0·05	6	4·51	5·66	2·37	50·75	42·89
		Pakour ...	0·03	0·06	1·88	4·44	3·56	0·73	0·14	7	11·74	11·96	3·70	73·93	54·02
		Nya Dumka	0· 2	2·25	0·55	6·23	2·53	0·05	.....	6	11·43	12·24	3·28	24·00	53·32
		Deoghur .	0·12	1·24	0·33	1·05	1·09	0·01	... .	6	3·84	4·18	2·81	40·43	47·84
		Jumbara ...	... ..	0·36	0·16	12·04	5·25	... ..	... ..	4	17·81	18·25	2·43	74·28	46·59
		Mohasama .	....	.....	1·12	1·16	0·86	0·15	.....	4	3·28	3·28	?	48·81	?
		Namaat ..	.....	. ..	1·65	1·60							?		?
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	1·71	.....	0·17	0·79	0·14	0·11	0·03	6	2·95	3·08	2·38	55·35	45·80
		Hazaribagh .	0·05	..	0·43	0·25	0·11	. ..	0·02	5	0·86	1·33	2·33	40·95	46·13
		Seetagoran .	..	0·10	0·30	0·20	... ..	.....	.. ...	3	0·60	0·70	2·69	38·89	44·09
		Mahudi Hills		0·0									2·81		47·45
		Jhoomra Hills											2·40		58·02
		Barka ..	0·04	0·09	. . .	2·03	0·72	0·02	.....	5	2·90	3·00	?	50·24	?
		Chatra .	...	... .	...	0·37	0·35	...	.....	2	0·72	2·05	?	47·08	?
		Karaydeha ...	1·03	0·04	0·53	1·21	0·15	... ..	.....	5	2·96	5·89	?	57·34	?
		Ramgnar .	... .	... .	1·80	0·33	.... .	...	.....	2	2·13	2·53	?	50·24	?
	Lohardugga ...	Lohardugga ..	.	..	.....	0·66	. . .	. ..	. ....	1	0·66	1·76	1 56	53·19	48·04
		Ranchi ...	0 11	0·57	0·48	0·46	0 08	... ..	..	5	1·70	2·54	2·14	43·57	50·02
		Palamow .		..	... ...	..	0·09	.....	... ..	1	0·09	0 59	2·05	44·27	41·12
		Silli .	1·19	....	0·50	0·90	0·70	...	.....	4	3·20	5 40	?	43·50	?
		Balumat .											?		?
		Hosseinabad	...	.....	.....	...	.....	.....	.....	Nil	Nil	Nil	?	41·75	?
		Garwah .											?		?
	Singbhoom .	Chyebassa ...	.. .	. .	0·40	0·40	0·09	... .	...	3	0·89	1·73	1 77	33·94	49·24
		Chakradhar-pore.	.	0·15	0·25	1·30	... ..	. ...	... ..	3	1·70	1·70	?	24·83	?
		Ghatsilla ...	0·20	1·50	1·85	0·35							?		?
		Baharagura	... ..	... .	0·75	0·45							?		?
	Manbhoom ...	Purulia ...	0·03	0·66	1·20	0·60	0·13	0·34	... ..	6	2·96	3·03	2·32	44·22	47·32
		Gobindpore .	... ..	0·15	0·08	2·67	0·18	0·41	.....	5	3·49	3·67	2·66	38·83	48·25
		Raghunath-pore.	... .	..	2·72	0·02	.....	. ...	.....	2	3·34	3·34	?	61·86	?
		Barrabhoom	....	0·12	0·80	0·40	0·38	. ...	.... .	4	1·70	19·0	?	44·15	?
		Jhalda ...	1·36	0 12	0·61	1·07	.....	. ..	... .	4	3·16	8·51	?	64·71	
		Cuas .	... ..	1·09	0·20	3·50	0·33	.....	.....	2	5·12	5·32	?	50·18	

Explanation.—..... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 21st October* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 17TH OCTOBER 1890.

METEOROLOGICALLY speaking, the past week has been the most important of a very uneventful season, in that it furnished the severest cyclonic storm of the year up to date. It may be remembered that at the end of the previous week a low-pressure area had formed, with its centre between the Andamans and Madras. On the 11th it had intensified considerably and approached the coast, wind increased to a gale at Pooree and Gopalpore, and fierce squalls developed in the south and south-west quadrants of the whirl. On the 12th the centre of the depression continued its north-westerly march and crossed the coast during that night, winds meanwhile abating somewhat. On the 13th and 14th the depression moved northwards, its centre keeping steadily parallel to the coast; winds of course increasing at all points in its progress and quieting down in those localities from which it was receding. The far-reaching effects of the depression are exemplified, however, not so much by any very unusual wind velocity as by the general and very heavy rain which followed in its wake. So far as reports have been received, not one single station in the province, including Assam, Behar, and Orissa, fails to report rainfall, and in the great majority of cases the weekly fall exceeds the average for the whole month.

Pressure has been almost everywhere below the normal of the week, but owing to the movements of the depression it has of course varied greatly from day to day. The ultimate result is that it considerably above the average, with a disquieting element in the shape of a relatively low-pressure area in the south of the Bay. As might be expected, in Orissa and South-West Bengal have suffered the greatest defect (—·080″ to —·050″), whilst Behar and East Bengal are closest to the normal.

Temperature.—Consequent mainly on the depression, temperature was below the average by amounts varying from 0·9° in East Bengal to 3·8° in North Bengal. These refer to divisional averages, but local temperatures do not differ from them much. The tendency throughout the week at all places was distinctly towards a decline.

Winds were cyclonic at the beginning of the week. As the depression passed away they naturally became more feeble and variable in direction. At the close, however, they were again feebly cyclonic.

Rainfall.—As mentioned above, the rainfall has formed the most abnormal element of the weather for this season of the year. North Bengal records the highest divisional average, 11·26 (just eight times the weekly normal). Next come Orissa and South-West Bengal with 6·95″ and 6·30″ respectively, each about four times the normal quantity for the week. North and South Behar each received 3·41″ (about five times the normal), East Bengal 3·25″ (nearly double the normal), and Chutia Nagpur 1·53″, which is more than double its average fall. Some very heavy subdivisional falls are reported as under:—

District.	Stations.	Date.	Rainfall in inches.
24-Pergunnahs	Diamond Harbour ...	14th Oct. 1890	5·28
Ditto	Canning Town	14th ,, ,,	2 67
Ditto	Baraset	14th ,, ,,	2·25
Howrah	Oolcoberiah	14th ,, ,,	3·15
Beerbhoom	Soory	14th ,, ,,	3·06
Ditto	Balpore	14th ,, ,,	2·76
Backergunge	Patuakhally	13th ,, ,,	4·50
Ditto	Bhola	13th ,, ,,	2·33
Sonthal Pergunnahs	Pakour	14th ,, ,,	4·41
Ditto	Jamtara	14th ,, ,,	12 04
Manbhoom	Gobindpore	14th ,, ,,	2·67
Ditto	Raghunathpore	13th ,, ,,	2·72
Cuttack	Kendrapara	12th ,, ,,	3·77
Ditto	Jajpur	12th ,, ,,	3 30
Balasore	Bhuddruck	12th ,, ,,	5·00
Ditto	Chandbali	13th ,, ,,	4·80
Midnapore	Contai	14th ,, ,,	9·40
Ditto	Tumlook	14th ,, ,,	4·00
Ditto	Kukrahati	14th ,, ,,	5·76
24-Pergunnahs	Canning Town	15th ,, ,,	4 02
Bankoora	Bankoora	14th ,, ,,	3·34
Beerbhoom	Rampur Haut	14th ,, ,,	4·50
Nuddea	Meherpur	15th ,, ,,	6 33
Backergunge	Bauphal	13th ,, ,,	3·50
Dinagepur	Raigunge	14th ,, ,,	5·60
Sonthal Pergunnahs	Pakour	15th ,, ,,	3·56
Ditto	Jamtara	15th ,, ,,	5·25
Manbhoom	Chas	14th ,, ,,	3·50
Cuttack	Salipore	12th ,, ,,	3·26
Balasore	Jellasore	14th ,, ,,	3·54
24-Pergunnahs	Canning Town	16th ,, ,,	4·58
Ditto	Barrackpore	16th ,, ,,	3·05
Ditto	Buseerhat	15th ,, ,,	3·10

District.	Stations.	Date.	Rainfall in inches.
Bankoora	Khatra	14th Oct. 1890	3·30
Nuddea	Chooadanga	16th ,, ,,	3·80
Do.	Meherpore	16th ,, ,,	4·20
Bogra	Panchbibi	15th ,, ,,	7·28
Do.	Sherepore	14th ,, ,,	3·41
Rajshahye	Naogaon	14th ,, ,,	3·67
Rungpore	Kurigram	14th ,, ,,	3·43
Ditto	Nilphamari	15th ,, ,,	9·75
Julpigoree	Debigunj	15th ,, ,,	6·45
Cooch Behar	Matabhanga	14th ,, ,,	3·04
Ditto	Dinhatta	14th ,, ,,	3·00
Darjeeling	Siliguri	15th ,, ,,	5·43
Ditto	Kalimpong	15th ,, ,,	6 20
Ditto	Kurseong	15th ,, ,,	5·60
Chumpraun	Bagaha	15th ,, ,,	3·00
Sonthal Pergunnahs	Rajmehal	15th ,, ,,	4·48
Gopalpore		11th October ...	2·79
Ditto		12th ,, ...	3·05
Pooree		13th ,, ...	4 69
False Point		,, ,, ...	4·70
Balasore		12th ,, ...	2·78
Noakholly		13th ,, ...	5·10
Saugor Island		14th ,, ...	4·80
Ditto		15th ,, ...	4·75
Raneegunge		14th ,, ...	3·02
Bankoora		,, ,, ...	3 33
Bogra		15th ,, ...	3·15
Do.		16th ,, ...	3 73
Bhagulpore		15th ,, ...	3·03
Motiharee		,, ,, ...	4·19
Julpigoree		16th ,, ...	3·65
Serajgunge		,, ,, ...	7·28

Humidity and cloud proportion were very high throughout the week.

Weather has been dull and gloomy, and much rain has fallen. Northerly winds have set in West Bengal and along the Madras coast, and barometer has recovered everywhere. These are conditions favourable to an early cold season, but unfortunately they also favour the formation of another cyclonic storm, and the latter appears the more likely favourite.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 17th of October 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week. Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Of week. Average.	Normal average.	Variation.	Rainy days. Average number in week.	Normal average number in week.	Variation.	Since 1st of month. Average.	Normal average.	Since 15th May 1890. Average.	Normal average.
Orissa	91·4	71·6	84·6	75·4	80·0	—1·9	6·95	1·71	+5·24	4·4	1·9	+2·5	7·27	3·82	50·84	46·61
South-West Bengal ...	92·3	70·0	83·9	74·6	79·2	—2·5	6·39	1·66	+4·73	5·4	1·4	+4·0	7·15	3·11	55·74	49·74
East Bengal	92·1	71·7	85·2	75·2	80·2	—0·9	3·37	1·84	+1·53	2·4	1·7	+0·7	4·17	3·97	68·84	71·11
North Bengal	90·6	62·1	81·4	73·2	76·8	—3·8	11·26	1·41	+9·85	4·8	1·3	+3·5	12·16	3·51	95·05	67·56
North Behar	90·4	65·8	82·3	71·8	77·1	—2·7	3·41	0·66	+2·75	3·1	0·8	+2·3	3·55	2·86	64·41	47·29
South Behar	90·9	66·8	83·1	72·1	77·6	—2·6	3·41	0·68	+2·73	3·6	0·9	+2·7	3·62	2·46	54·44	42·15
Chutia Nagpur	84·9*	61·3*	79·1*	66·3*	72·7*	—2·8*	1·58	0·76	+0·82	3·9	1·3	+2·6	1·97	2·26	45·59	47·41

* Chyebassa not included.

Meteorological Office, Bengal; *The 21st October* 1890.

J. H. Gilliland, *For Offg. Meteorological Reporter to the Govt. of Bengal.*

Results of the Meteorological Observations taken at the Alipore Observatory from 12th to 18th October 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Oct.	12th	123·6	0·2	29·801	79·5	81·4	4·9	76·5	76·6	0·879	75·3	87	ESE, ENE and E ..	117	0·07	Chiefly cloudy, o, g, d.
,,	13th	93·4	Nil	·768	77·2	77·5	3·2	74·3	75·6	·864	74·8	92	ESE and SE ...	113	1·16	Cloudy, o, g, d, t, ≤, ●.
,,	14th	85·5	,,	·693	76·5	78·0	5·5	72·5	75·2	·857	74·6	94	ESE, SE and SSE ...	169	2·91	Cloudy, o, g, d, p, t, ≤, ●.
,,	15th	96·5	,,	·766	76·8	78·6	4·1	74·5	75·5	·867	74·9	94	SSE and calm ...	27	0·33	Cloudy, o, g, d, p, t, ≤.
,,	16th	130·4	0·5	875	76·7	81·5	9·0	72·5	75·3	·859	74·6	93	Variable and calm...	22	1·25	Cloudy o, g, d, p, t, ≤.
,,	17th	140·5	8·7	·912	78·5	84·5	12·6	71·9	75·6	·849	74·3	88	W by N and calm...	26	Nil	Partially cloudy.
,,	18th	142·5	9·2	·852	79·1	85·8	12·4	73·4	75·3	·827	73·5	83	Variable and calm...	25	,,	Partially cloudy, ≏.

		Inches.
The mean pressure of the seven days		29·810
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		29·846
		Hours.
The total number of hours of bright sunshine		18·6
The maximum possible number of hours of sunshine		81·2
		°
The mean temperature of the seven days		77·8
The average temperature of the corresponding period for 24 years, S.-G.'s Office		82·3
The extreme variation of temperature		13·9
The maximum temperature		85·8
		Miles.
The highest velocity of the wind in one hour		11
		lbs.
The highest pressure of wind on one square foot ... ... Approximately		4
		%
The mean relative humidity		90
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		79
		Inches.
The total fall of rain from 12th to 18th October 1890		5·72
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		0·79
The total fall from 1st January to 18th October 1890		59·97
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		62·28

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; t, thunder; ≤, lightning; ●, continued rain; p, passing temporary shows; ≏, dew.

N. B.—In the weekly report from 28th September to 4th October 1890 read "149·5" for "14·59" as the maximum in sun of the 29th September, and also read "29·786" inches for "29·76" inches as the mean pressure of the 3rd October 1890.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 20th October 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 12th to 18th October 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
October ...	12th ...	29·883	79·3	80·9	3·3	77·6	79·6	76·5	·873	75·1	87	...
,, ...	13th ...	·831	76·9	77·9	2·9	75·0	77·6	75·5	·857	74·5	91	1·06
,, ...	14th ...	·736	76·6	79·4	5·6	73·8	74·6	74·0	·833	73·7	98	2·65
,, ...	15th ...	·806	76·9	80·4	7·1	73·3	78·6	78·0	·953	77·7	97	0·87
,, ...	16th ...	·916	78·9	80·9	5·8	75·1	80·1	78·0	·932	77·1	90	0·50
,, ...	17th ...	30·000	79·1	85·9	13·6	72·3	79·9	76·5	·868	74·9	85	1·81
,, ...	18th ...	29·904	80·7	87·0	12·7	74·3	83·1	76·5	·825	73·4	73	...

	Inches.
The mean 10 A.M. pressure of the seven days	29·868
The mean temperature of the seven days	78·2
The extreme variation of temperature	14·7
The maximum temperature	87·0
	%
The mean 10 A.M. relative humidity of the seven days	89
The total fall of rain from 12th to 18th October 1890	6·89

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India;
The 20th October 1890.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of August 1890.

THE deaths registered in forty-five districts in Bengal during the month of August 1890 were 116,479, and correspond to an annual rate of 21·12 per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is 1·44 lower than the mean rate of the corresponding months of the past five years 1885—89, and is also lower than the rate of the corresponding period of any of the past five years except 1886 and 1888, *vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Monthly average of five years, 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	24·60	20·64	24·96	19·68	23·04	22·56	21·12

The following table shows the highest proportions of deaths registered during the month of August 1890, compared with the corresponding month of 1889 :—

Districts.	Ratio per *mille* during— August 1890.	August 1889.	*Districts.*	Ratio per *mille* during— August 1890.	August 1889.
Darjiling	37·20	42·00	Shahabad	29·88	38·16
Gya	36·84	42·00	Khulna	27·12	17·40
Chumparun	34·08	15·84	Mozufferpore	25·92	18·96
Patna	33·12	40·20	Julpaiguri	25·20	23·64
Noakhali	30·60	23·04	Hazaribagh	25·08	32·64

The total mortality during the month under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89 :—

	Ratio per *mille* during— August 1890.	August 1889.	Monthly average of five years 1885—89.
Cholera	1·32	2·64	2·64
Small-pox	·08	·06	·04
Fever	15·24	15·12	15·12
Bowel-complaints	·48	·96	·84
Injury	·72	·84	·72
Other causes	3·00	3·36	3·00

It will be seen from the above that there was a noticeable decrease in cholera deaths during August 1890. The mortality under the other heads was pretty much the same as in corresponding past periods.

The highest annual death-rates from cholera and fever occurred in the following districts :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*
Chumparun	11·64	Noakhali	28·08
Gya	6·48	Gya	24·84
Shahabad	6·00	Julpaiguri	23·64
Mozufferpore	5·64	Darjiling	23·52
Patna	4·68	Khulna	23·28
Sarun	3·00	Dinajpur	21·36
Durbhanga	2·28	Jessore	21·12
		Hazaribagh	20·88
		Rajshahye	20·40

The mortality of the month under review, according to *Sex*, *Class* and *Age*, was distributed as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	22·68	Christians ...	12·36	Under 1 year	151·20
Females... ...	19·68	Hindus ...	21·96	1 and under 5 years ...	25·68
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ...	115	Mahomedans ...	19·92	5 „ 10 „ ...	12·72
		Buddhists ...	13·56	10 „ 15 „ ...	10·80
		Other classes ...	16·68	15 „ 20 „ ...	12·96
				20 „ 30 „ ...	12·84
				30 „ 40 „ ...	14·04
				40 „ 50 „ ...	19·44
				50 „ 60 „ ...	27·96
				60 years and upwards ...	48·60

Detailed information regarding the mortuary statistics of the forty five districts of Bengal during the month under review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 15th October 1890.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of August 1890.

1	2	3			4						5							6		7		8		9
		POPULATION.			MORTALITY ACCORDING TO— Disease. Deaths from—						Ratio per 1,000 of population per annum.							Comparison with previous periods.		Deaths among—		Sex. Ratio per 1,000 of population per annum.		
Divisions.	Districts.	Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan	Burdwan	668,895	722,528	1,391,423	6	3	1,412	55	48	399	*1,923*	·04	·02	12·12	·36	·36	3·36	*16·56*	17·40	25·44	995	928	17·76	15·36	115
	Bankura	507,156	534,619	1,041,752	10	5	969	49	49	319	*1,400*	·10	·04	11·16	·48	·48	3·60	*16·04*	19·32	21·60	759	641	17·88	14·28	125
	Birbhum	381,563	412,865	794,428	9	...	857	9	37	434	*1,346*	·12	..	12·84	·12	·48	6·48	*20·28*	22·08	31·92	726	620	23·60	18·00	108
	Midnapore	1,243,195	1,272,370	2,515,565	67	104	3,144	205	121	649	*4,290*	·24	·48	14·88	·96	·48	3·00	*20·40*	24·40	21·12	2,294	1,996	22·08	18·72	118
	Hughli	315,665	347,385	663,050	1	4	790	100	37	163	*1,095*	·01	·07	14·28	1·80	·60	2·88	*19·80*	18·24	23·16	553	542	21·00	18·72	113
	Serampore	174,366	177,589	351,955	10	2	457	86	33	96	*664*	·24	·06	14·88	2·88	1·08	3·24	*22·56*	20·64	25·20	347	317	23·88	21·36	111
	Total (Hughli including Serampore).	490,031	524,974	1,015,005	11	6	1,227	186	70	259	*1,759*	·12	·06	14·40	2·16	·72	3·00	*20·76*	19·08	23·88	900	859	21·96	19·56	112
Presidency	Howrah	316,679	318,902	635,581	12	27	493	205	51	321	*1,109*	·12	·48	9·24	3·84	·96	6·00	*20·88*	19·56	23·56	571	538	21·60	20·16	107
	24-Pergunnahs	360,341	312,321	1,675,362	47	5	2,169	89	128	240	*2,674*	·24	·02	15·48	·60	·84	1·68	*19·08*	16·92	16·68	1,413	1,266	19·64	18·60	105
	Nuddea	805,779	849,942	1,655,721	24	2	1,606	18	105	319	*2,073*	·12	·01	11·52	·12	·72	2·28	*15·00*	14·76	17·88	1,089	984	16·20	15·60	117
	Jessore	969,271	960,104	1,929,375	...	1	3,418	10	162	172	*3,763*	..	·006	21·13	·01	·96	·96	*23·28*	21·48	17·64	1,957	1,806	24·48	22·08	110
	Murshidabad	536,483	540,307	1,076,790	9	2	1,152	11	115	273	*1,582*	·08	·01	11·40	·09	1·08	2·64	*15·36*	15·60	22·08	823	759	16·80	14·16	118
	Khulna	538,402	511,546	1,049,948	16	...	2,099	28	64	242	*2,449*	·12	...	23·28	·24	·60	2·64	*27·12*	26·40	17·40	1,253	1,196	26·40	27·96	94
	Dinajpur	782,292	732,054	1,514,346	6	8	2,704	5	145	165	*3,033*	·03	·06	21·36	·48	1·08	1·20	*24·00*	21·61	18·60	1,668	1,365	25·56	22·32	114
	Rajshahye	680,710	678,593	1,359,303	1	2	2,389	10	152	121	*2,556*	·008	·01	20·40	·08	1·32	1·08	*22·82*	23·64	17·40	1,319	1,237	23·88	22·20	107
	Rungpore	1,067,701	1,030,263	2,097,964	...	...	2,739	10	88	151	*2,988*	...	...	15·60	·04	·48	·84	*17·04*	21·84	17·04	1,683	1,305	18·84	15·12	124
	Bogra	372,193	361,200	733,393	1	2	1,145	1	79	164	*1,392*	·01	·02	18·72	·01	1·20	2·64	*22·68*	23·64	16·92	708	684	22·80	22·68	100
	Pubna	648,311	663,217	1,311,728	6	...	806	85	5	87	*494*	...	·07	23·53	6·48	·36	6·60	*37·20*	48·36	42·00	267	217	35·76	39·24	91
	Darjiling	89,351	66,294	155,645	...	1	1,150	7	15	55	*1,228*	·01	...	23·64	·12	·24	1·08	*25·20*	32·88	23·64	721	507	23·20	21·96	128
	Julpaiguri	305,972	276,418	582,390	1	...	1,605	111	155	357	*2,346*	·08	·01	9·48	·60	·84	2·16	*13·20*	14·76	11·76	1,352	994	15·60	10·92	142
Dacca	Dacca	1,033,863	1,082,487	2,116,350	16	2	1,770	32	137	209	*2,150*	...	·01	12·96	·12	·96	1·44	*15·72*	15·36	9·96	1,157	993	17·16	14·40	119
	Faridpore	845,389	825,745	1,631,731	...	2	2,529	11	112	759	*3,419*	·04	...	15·96	·06	·60	4·68	*21·48*	24·24	14·76	1,881	1,538	23·16	19·80	116
	Backergunj	973,479	927,410	1,900,889	8	..	3,448	42	109	452	*4,077*	·06	·10	13·44	·12	·36	1·68	*15·96*	17·76	13·32	2,311	1,766	17·76	14·04	126
	Mymensingh	1,555,840	1,501,103	3,056,943	17	30	1,789	41	75	174	*2,080*	·009	...	18·84	·36	·72	1·80	*21·96*	22·20	18·72	1,068	1,012	24·00	20·16	119
	Chittagong	631,640	500,532	1,132,341	1	...	1,924	3	63	106	*2,096*	...	...	28·08	·03	·84	1·44	*30·60*	33·00	23·04	1,069	1,027	30·84	30·36	101
Chittagong	Noakhali	415,248	403,524	820,772	...	...	1,902	21	68	235	*2,232*	·03	...	15·00	·12	·48	1·80	*17·64*	21·00	16·08	1,237	995	19·20	15·24	120
	Tipperah	768,459	748,911	1,514,361	6	...	2,890	177	124	931	*4,850*	4·68	·24	19·68	1·20	·84	6·36	*33·12*	33·72	40·20	2,485	2,366	34·80	31·68	109
	Patna	856,892	895,658	1,751,559	692	36	4,399	58	163	673	*6,523*	6·48	·36	24·84	·24	·84	3·72	*36·84*	25·92	42·00	3,370	3,153	38·64	34·92	110
	Gya	1,043,441	1,081,241	2,124,682	1,163	77	4,399	58	163	673	*6,523*	6·48	·36	24·84	·24	·84	3·72	*36·84*	25·92	42·00	3,370	3,153	38·64	34·92	110
	Shahabad	950,250	1,014,659	1,964,909	988	13	3,107	50	123	621	*4,902*	6·09	·07	18·96	·24	·72	3·72	*29·88*	21·60	38·16	2,590	2,322	32·52	27·36	119
Patna	Monghyr	1,265,731	1,318,329	2,584,060	1,233	8	3,302	111	310	639	*5,603*	5·64	·03	15·24	·48	1·44	2·88	*25·92*	21·00	18·96	3,072	2,531	29·04	23·04	118
	Darbhanga	1,386,788	1,337,659	2,633,447	518	1	2,875	84	204	298	*3,980*	2·28	·003	13·08	·36	·84	1·32	*18·12*	16·56	22·08	2,131	1,849	19·68	16·56	118
	Saran	1,085,247	1,199,832	2,285,679	592	15	1,915	294	169	1,299	*4,284*	3·00	·07	9·96	1·44	·84	6·72	*22·44*	20·52	23·88	2,388	1,826	26·28	18·96	138
	Chumparun	870,627	850,981	1,721,608	1,678	43	2,349	33	181	621	*4,904*	11·64	·24	16·32	·12	1·20	4·32	*34·08*	33·00	15·84	2,641	2,263	34·36	31·80	114
	Muzaffarpur	968,124	1,000,650	1,969,774	158	3	2,746	37	217	543	*3,701*	·96	·01	16·68	·12	1·32	3·24	*22·56*	21·36	35·16	1,860	1,654	22·92	22·08	103
	Champaran	979,139	967,699	1,946,838	95	3	2,352	40	139	404	*3,123*	·48	·01	14·52	·24	·84	2·76	*18·96*	19·56	14·28	1,610	1,493	20·04	18·24	109
	Bhagalpore	967,990	977,697	1,945,687	72	...	1,924	16	87	25	*2,124*	·36	...	12·48	·09	·48	·12	*13·68*	14·88	13·92	1,102	1,022	14·04	13·44	104
	Purnea	346,998	363,469	710,442	2	...	396	6	33	55	*494*	·02	...	6·72	·09	·48	·84	*8·27*	15·96	14·28	267	227	9·12	7·44	122
	Malda	736,330	762,763	1,499,093	71	3	1,565	26	49	236	*1,950*	·48	·01	11·88	·12	·36	1·80	*14·88*	13·56	29·76	1,045	905	15·96	13·80	115
	Santhal Pergunnahs	777,707	817,383	1,595,065	174	17	1,439	258	133	746	*2,767*	1·08	·10	9·60	1·68	·84	4·92	*18·48*	21·84	29·40	1,434	1,333	19·56	17·40	112
Orissa	Cuttack	877,707	917,383	1,795,065	174	17	1,439	258	133	746	*2,767*	1·08	·10	9·60	1·68	·84	4·92	*18·48*	22·92	34·20	674	599	18·00	16·20	111
	Puri	446,609	442,578	888,487	69	21	365	130	63	725	*1,273*	·84	·24	3·48	1·68	·84	9·72	*17·16*	22·92	28·68	922	812	23·88	20·04	119
	Balasore	461,481	483,819	945,300	35	5	797	363	63	471	*1,734*	·36	·06	10·08	4·56	·72	5·88	*21·96*	23·88	20·04	922	812	23·88	20·04	119
	Manbhum	544,903	559,339	1,104,742	6	1	1,927	41	62	279	*2,316*	·06	·01	20·88	·36	·60	3·00	*25·08*	19·32	32·64	1,128	1,188	24·84	26·44	97
Chota Nagpur.	Lohardugga	796,657	812,587	1,609,244	20	4	1,501	150	18	759	*2,452*	·12	·01	11·16	1·08	·12	5·64	*18·24*	17·16	44·52	1,297	1,155	19·32	17·04	113
	Singbhum	226,681	227,094	453,775	1	5	470	53	22	143	*693*	·02	·12	12·36	1·32	·48	3·72	*18·24*	18·12	24·36	376	317	19·80	16·68	118
	Manbhum	545,338	532,900	1,078,238	4	21	1,430	53	51	422	*1,982*	·03	·12	16·20	·60	·48	4·68	*22·44*	21·36	30·00	1,027	955	23·40	21·48	108
	TOTAL FOR THE PROVINCE.	32,933,709	33,195,824	66,129,534	7,635	477	33,732	3,231	4,467	16,747	*116,479*	1·32	·08	15·24	·48	·72	3·00	*21·12*	21·00	25·04	61,900	54,579	22·68	19·68	115

		10				11				12										13						
		MORTALITY ACCORDING TO—																								
		Class.								Age.																
		Deaths among—				Ratio per 1,000 of population per annum.				Deaths.										Ratio per 1,000 of population per annum.						
Divisions.	Districts.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	1,591	332	...	...	...	16·92	15·00	...	...	418	169	106	84	123	212	216	190	155	252	158·52	15·36	7·56	7·44	12·00	9·96	12·12	14·04	19·20	37·92
	Bankura	...	1,248	48	...	104	...	16·44	12·36	...	14·64	321	160	102	68	65	127	139	123	105	181	140·64	16·68	8·04	7·44	8·16	8·52	11·28	21·24	20·16	38·76
	Birbhum	...	1,141	205	...	...	...	22·08	15·12	...	...	442	144	95	53	51	110	115	103	96	147	317·76	21·60	11·28	7 80	9·12	9·72	11·16	14·16	19·80	33·52
	Midnapore	...	3,713	252	...	323	32·40	19·92	19·36	...	32·88	784	558	297	191	249	417	448	411	385	57	146 6	39 94	12·24	9·00	9·84	11·76	13 68	18·94	22·80	49 68
	Hughli	...	899	196	...	...	...	20·16	18·12	...	...	160	152	70	50	49	123	122	120	91	153	143·16	30 84	12·24	9·00	9·84	11·76	13 68	18·94	22·80	49 68
	Serampore	...	560	104	...	...	...	23·04	20·88	...	...	91	87	46	34	32	73	65	71	70	95	108 96	32 64	16·32	13·32	12·12	12 96	13·32	20·76	33·12	58·56
	Total (Hughli including Serampore).	...	1,459	300	...	...	...	21·12	18·96	...	...	251	239	116	84	81	201	187	191	161	248	111·60	31·44	13·56	10·80	10·56	12·00	13·56	19·68	26·40	52·68
Presidency	Howrah	1	868	240	...	...	5·76	20·76	21·72	...	...	293	167	75	39	49	80	63	63	67	193	185·76	29·52	11·52	7·51	10·20	7·80	8·04	16·32	21·36	59·64
	24-Pergunnahs	7	1,740	931	...	...	8·16	20·04	17·88	...	...	405	432	275	148	142	276	231	192	196	382	110·04	27·00	14·76	11·04	12·48	10·56	11·04	14·40	24·16	45·48
	Nuddea	4	926	1,143	...	...	7·44	15·24	14·88	...	...	395	283	211	115	117	177	192	162	121	369	114·32	16 64	9·96	7·92	11·52	8·04	10 08	11·52	13·44	34·32
	Jessore	...	1,502	2,261	...	...	...	28·80	35 28	...	...	401	701	332	208	221	351	331	306	231	491	9 6	36·61	21·60	12 72	17·88	12·84	15·00	19·04	22·08	4·80
	Murshidabad	...	828	754	...	...	...	15·60	15·24	...	...	358	179	121	82	89	143	144	132	108	2 7	158·52	15 00	8·04	8 04	10 80	8·40	9·84	12·72	16·80	33·48
	Khulna	1	1,006	1,442	...	...	15·96	2··80	31·08	...	...	378	425	369	120	125	210	185	197	122	318	1 0·96	39·84	29·04	13 20	6 6	13·20	14·88	23·28	23·64	61·08
	Dinajpur	...	1,427	1,606	...	...	...	23·88	24·12	...	...	423	495	242	178	168	391	364	306	185	228	144 96	31 32	14·88	14·28	17·16	18 12	19·20	24·96	27 72	35·72
	Jalpaiguri	...	516	2,051	...	...	...	21·36	24·40	...	...	333	429	310	178	159	289	287	198	151	212	13 ·00	31·51	17 28	15·96	19·24	15 00	17·88	18·60	25·32	33·12
Rajshahye	Rungpore	...	1,493	1,895	...	...	...	15 96	17·76	...	...	377	304	236	165	210	417	308	343	243	295	88 20	15·11	9 00	9 36	10 44	14·16	14 16	19·32	22·20	32 16
	Bogra	...	272	1,120	...	...	...	21·36	22 56	...	...	300	216	129	64	68	145	148	119	74	127	2 4·84	27 12	12 72	10 56	13·68	13 92	16·92	21·72	24 36	41·28
	Pabna	...	64?	1,716	...	...	...	21·24	21·60	...	...	281	468	303	147	120	131	184	181	156	344	87·24	31 20	17·28	13·92	15·24	14·28	12 48	17·76	25 08	47·40
	Darjiling	1	458	11	14	...	14·16	43·20	16·08	8·88	...	58	67	34	31	45	82	79	36	26	22	222 36	49 44	24 36	2·64	4·80	28·08	36·72	31 44	42·96	37·80
	Julpaiguri	1	829	399	...	...	96·00	26 88	22·92	...	...	228	141	50	55	57	133	134	146	118	137	16·32	24·48	7·92	10·80	16·32	18·96	29 76	41·76	56·64	
	Dacca	18	1,033	1,295	...	...	24 48	14·40	12·16	...	...	331	305	176	117	118	2 8	229	202	175	473	68·04	12 60	6·24	6 12	8·64	7 80	9 12	12·48	9·96	9·60
	Faridpore	5	929	1,216	...	...	21·84	17·04	14·88	...	...	230	202	193	127	126	202	179	214	214	384	187·92	24·64	15·48	9·24	9·96	8 28	12 24	18·12	30·60	11·44
Dacca	Backerganj	5	1,094	2,410	...	...	16·08	19·20	21·60	...	...	732	553	349	151	137	239	265	254	215	463	77·36	11·76	7·92	7·80	9·72	11·28	13·44	19·81	29·40	56·04
	Mymensing	1	1,384	2,643	...	39	79·44	16 68	14·76	...	19·00	468	494	339	241	235	480	470	437	383	668	95·16	29·5	17·52	7·92	12 36	12 24	15·84	19·68	30 84	46 44
Chittagong	Chittagong	2	445	1,557	76	...	22 68	19·32	2·25	16·80	...	262	313	216	91	100	171	182	160	173	386	1 6 6	49·20	18·00	13·92	14·40	14·52	19·08	24 72	46 44	110·04
	Noakhali	1	410	1,698	...	...	...	23·16	33·24	...	...	304	376	198	94	84	145	168	114	179	394	116·28	17·69	6·72	9·24	15·12	13·92	14·04	15·48	17 88	53·40
	Tipperah	...	729	1,503	...	...	...	17·16	17 88	...	...	540	291	132	126	141	250	246	172	124	371	110·88	46·38	18 36	15·00	17·28	18 96	17·88	27·84	38·40	51·36
Patna	Patna	1	4,239	610	...	...	4·56	53·12	34 32	...	...	1,030	825	351	209	163	431	381	467	401	551	330 16	46·08	23·40	21·00	20·28	21·24	18 72	29·64	48 00	79·92
	Gya	1	5,751	771	...	...	124·92	36·48	39·00	...	...	1,141	1,068	570	371	246	626	558	559	57	844	239·16	36 72	19 08	15·36	15·72	18·72	17 88	25 32	41·64	57·96
	Shahabad	...	4,492	4·0	...	...	...	29·16	33·48	...	...	895	752	435	282	246	634	569	514	513	667	156 00	35·16	18·24	15 36	17 64	18·48	17·76	22 29	31·24	51·84
	Muzufferpore	...	4,966	637	...	...	...	26·28	24·12	...	...	578	556	605	341	157	448	442	421	37	451	89·16	24·24	11·40	13 08	10·44	12 36	14·02	17·88	26·16	38·40
	Durbhanga	3	3,548	429	...	...	110·76	18 24	16·56	...	...	374	655	385	277	153	437	407	404	402	687	147·60	27·12	10·08	7·80	12·36	14·52	15·96	20·16	34·32	59·76
	Saran	...	3,706	498	...	...	...	22 56	21·72	...	...	659	634	284	157	153	437	407	404	402	624	117·84	44·16	31·20	20·28	20 40	24·36	24 84	32 16	39·72	77·88
	Chumparun	5	4,052	847	...	...	36·96	32·88	41·88	...	...	427	750	655	297	195	585	594	482	34	475	28·08	3·08	9·84	1·08	19·80	1·68	1 04	19·20	26 52	50 40
	Monghyr	3	3,367	327	...	7	32·88	22·68	20 88	...	11·64	890	655	247	171	122	274	270	327	262	258	68 16	23·64	10·68	9 12	11·16	14 28	13·56	18·12	26·88	32·28
Bhagulpore	Bhagulpore	3	2,805	225	...	...	62·64	19·68	14·52	...	...	578	455	262	1 1	132	402	344	258	241	224	55·20	11·88	5·40	3 72	9·72	9·76	12·00	12·36	17·52	20·04
	Purneah	...	1,313	811	...	...	...	14 52	12·60	...	...	174	212	202	153	109	312	301	276	165	49	42·96	12 96	5·64	3 72	6·00	5·88	6 60	6·24	9 12	13 56
	Maldah	1	314	1·9	...	...	...	9 84	6·48	...	6 84	71	91	52	23	30	58	56	55	29	21	153·16	16·56	7·56	6 60	11·40	12·36	7 92	13·08	16 80	32·76
	Sonthal Pergunnahs	...	1,181	144	...	625	...	16·68	13·84	...	12 24	404	316	152	100	108	238	139	142	119	430	205·68	16·68	6·96	6·36	10·44	9·60	12·48	18 84	26·40	45·72
Orissa	Cuttack	2	2,713	52	...	...	10·20	16·80	13·92	...	...	642	314	159	102	119	241	251	251	234	227	224 04	14·76	6·24	5·16	9 48	8 04	10·32	13 80	16 32	34 44
	Poori	1	1,260	12	...	...	14·64	17·28	10·20	...	...	254	140	67	33	53	10	109	130	119	277	284 6	20·76	7·08	6·48	20 04	9·12	13 20	16·32	21·12	39·72
	Balasore	3	1,713	15	...	...	44 16	23·64	9·36	...	...	502	198	94	56	62	1·5	146	126	158	267	189·36	31·68	13·44	13·20	8·64	13 08	12·12	21·12	39·72	73 68
Chota Nagpore	Hazaribagh	1	2,096	219	...	30	21·72	20·76	24·72	...	4·80	548	417	2·0	122	55	181	162	168	170	2·1	16·7 2	24·96	10 80	9 84	9 36	8·04	9 84	15 48	24·90	57·08
	Lohardugga	24	1,082	154	...	1,192	7·92	14·88	23·76	...	22·80	581	407	245	150	90	178	184	171	158	68	179·44	18·96	9·96	9·48	11·64	9 48	12 72	23 04	30 36	49·56
	Singbhum	1	686	6	...	...	3·96	18 36	30 84	...	...	150	95	62	41	37	59	75	57	126	142	19·84	23 84	12·84	13·20	15·00	16·08	14·08	19·08	26·76	32·64
	Manbhum	4	1,906	72	...	...	86 88	24·12	18·96	...	...	464	289	136	118	114	226	172	139	126	142	19·84	23 84	12·84	13·20	15·00	16·08	14·08	19·08	26·76	32·64
	TOTAL FOR THE PROVINCE.	100	78,531	35,437	90	2,321	12·36	21·96	19·92	13·56	16 68	19,512	17,495	10,482	6,075	5,439	11,828	11,204	10,348	9,095	15,001	151·20	25·68	12·72	10·80	12·96	12 84	14·04	19·44	27·96	48·60

Office of Sanitary Commissioner for Bengal,

The 15th October 1890.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 4th October 1890.

Births.

The births registered during the week ending with Saturday, the 4th October 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 29·7 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 7·9 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of births per 1,000 of the population per annum	27·9	21·1	15·4	25·0	19·8	21·8	29·7

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.	Towns.	Weeks ending— 13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.
Burdwan	33·6	21·4	16·8	53·4	Narainganj	20·7	37·3	41·4	37·3
Midnapore	9·3	13·9	9·3	17·0	Chittagong	9·4	4·7	11·7	9·4
Hughli and Chinsurah	39·4	39·4	18 1	34·5	Comillah	11·6	19·3	27·0	15·4
Serampore	31·4	46·1	41·2	47·1	Patna City	15·3	14·6	11·4	19·8
Utterpara	37·7	37·7	28·3	9·4	Gya	26·0	42·4	26·0	36·9
Howrah	21·8	21·8	22·9	25·2	Arrah	16·7	57·4	19·1	47·9
Bali	17·5	10·5	17·5	28·1	Mozufferpore	7·3	25·5	24·3	24·3
Krishnagar	26·5	17·0	17·0	26·5	Durbhanga	22·8	37·0	38·5	40·9
Ranaghat	... ..	12·0	24·0	12·0	Chupra	28·2	38·2	13·1	38·2
Santipore	26·3	14·0	5·2	20·3	Bhagulpore	30·8	19·9	29·0	26·2
Jessore	12·2	... ..	12·2	.....	Monghyr	38·9	46·1	39·8	57·9
Rampore Beauleah	39·4	57·8	57·8	63·1	Purneah	10·4	10·4	10·4	10·4
Darjiling	37·0	37 0	44·5	22·2	Poori	14·7	18·6	12·6	14·7
Dacca	14·9	15·6	21·4	13·0	Total ...	22·0	26·6	22·2	29·7

It will be seen that last week the highest birth-rate was returned from Rampore Beauleah (63·1) and the lowest from Utterpara (9 4). No births were registered during the week in Jessore town.

Deaths.

The deaths registered during the week under review correspond to an annual rate of 23· per 1,000 of the population. The rate of the week is 5·7 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below : —

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of deaths per 1,000 of the population per annum	39·2	33·4	18·3	25·4	24·1	28·7	23·0

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.	Towns.	Weeks ending— 13th Sept. 1890.	20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.
Burdwan	29·0	19·8	24·4	30·5	Narainganj	16·6	16·6	4·1	16·6
Midnapore	20·1	17·0	18·6	15·5	Chittagong	9·4	14·1	16·4	9·4
Hughli and Chinsurah	37·7	24·6	21·8	24·6	Comillah	27·0	19·3	15·4	7·7
Serampore	33·0	29·4	40·1	29·4	Patna City	20·4	14·9	19·8	14·9
Utterpara	28·3	28·3	18·9	28·3	Gya	40·5	38·9	39·6	47·1
Howrah	18·7	13·2	14·9	18·9	Arrah	15·6	35·9	33·5	18·2
Bali	10·5	38·6	35·1	24·6	Mozufferpore	24·3	26·8	15·3	25·5
Krishnagar	32·7	11·4	18·9	18·9	Durbhanga	22·8	36·2	35·...	35·4
Ranaghat	6·0	29·9	6·0	6·0	Chupra	39·2	28·2	11·1	34·2
Santipore	19·3	14·0	.....	12·3	Bhagulpore	18·1	17·2	20·8	14·5
Jessore	42·8	18·4	6·1	18·4	Monghyr	21·7	35·3	28·9	30·7
Rampore Beauleah	39·4	31·5	36·8	36·8	Purneah	13·9	17·3	6·9	10·4
Darjiling	14·8	14·8	37·0	22·2	Poori	31·5	31·0	14·7	25·2
Dacca	28·6	21·4	22·1	17·5	Total ...	24·7	23·4	23·4	23·0

It will be seen that last week the highest mortality occurred in the town of Gya (47·1) and the lowest in Ranaghat (6·).

Measured by last week's mortality, the highest annual death-rates from cholera and fever occurred in the following towns:—

Cholera.	Ratio per mille.	*Fever.*	Ratio per mille.
Durbhanga	8·6	Gya	29·4
Chupra	8·0	Rampore Beauleah ...	28·9
Gya	6·1		
Patna City	3·6		

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2·3 from cholera, against 1·6 per 1,000 in the preceding week; ·5 from small-pox, against ·04; 11·7 from fever, against 10·4; 2·6 from bowel-complaints, against 3·3; ·3 from injury, against the same ratio; and 5·6 from other causes, against 6·7 in the preceding week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per mille.	*According to Class.*	Ratio per mille.	*According to Age.*	Ratio per mille.
Males	22·9	Christians ...	7·5	Under 1 year ...	165·9
Females	23·0	Hindus ...	24·1	1 and under 5 years ...	32·5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	99	Mahomedans ...	20·5	5 „ 10 „ ...	12·2
		Other classes ...	76·8	10 „ 15 „ ...	10·3
				15 „ 20 „ ...	9·0
				20 „ 30 „ ...	13·5
				30 „ 40 „ ...	13·9
				40 „ 50 „ ...	16·2
				50 „ 60 „ ...	29·5
				60 years and upwards ...	68·0

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 17th October 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 4th October 1890.

1	2	3			4			5			6	7							8							9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DISEASE.																SEX.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.												
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	19	17	35	27·5	25·9	53·4	105	...	...	12	3	...	5	20	...	...	18·3	4·6	...	7·6	30·5	24·4	10	10	28·8	32·5	88
Midnapore ...	Midnapore ..	16,927	16,633	33,560	6	5	11	9·3	7·7	17·0	120	...	1	2	5	...	4	10	...	1·5	3·1	4·6	...	6·2	15·5	18·6	8	2	24·6	6·3	390
Hughli ...	Hughli and Chinsurah..	15,558	15,829	31,687	12	9	21	19·7	14·8	34·5	133	...	...	9	3	...	3	15	...	...	14·8	4·9	...	4·9	24·6	21·3	9	6	29·5	19·7	149
Serampore ...	Serampore ..	13,559	12,937	26,496	11	13	24	21·6	25·5	47·1	84	...	...	7	2	1	5	15	...	...	13·7	3·9	2·0	9·8	29·4	49·1	5	10	19·2	40·2	47
	Utterpara	3,046	2,464	5,510	1	...	1	9·4	...	9·4	No female birth.	...	...	1	...	...	2	3	...	...	9·4	...	...	18·9	28·3	18·9	1	2	17·1	42·2	40
[illegible]	Howrah	53,153	37,660	90,813	29	15	44	1·6	8·6	25·2	193	8	...	9	11	...	10	33	1·7	...	5·2	6·3	...	5·7	18·9	14·9	22	11	21·5	15·2	141
	Bali	7,836	6,979	14,815	5	3	8	17·5	10·5	28·1	166	...	...	5	1	...	1	7	..	...	17·5	3·5	...	3·5	24·6	35·1	4	3	26·5	22·4	118
Nuddea ..	Krishnagar ...	13,263	14,214	27,477	2	12	14	3·8	22·7	26·5	16	...	...	7	2	...	1	10	...	...	13·2	3·8	...	1·9	18·9	18·9	8	2	31·4	7·3	430
	Ranaghat... ...	4,028	4,655	8,683	1	1	2	6·0	6·0	12·0	100	...	..	1	...	...	...	1	...	...	6·0	...	...	...	6·0	6·0	1	...	12·9	...	No female death.
	Santipore	13,708	15,979	29,687	8	7	15	14·0	12·3	26·3	114	...	...	4	...	...	3	7	...	...	7·0	...	...	5·3	12·3	...	4	3	15·2	9·8	155
Jessore ...	Jessore	4,850	3,665	8,495	...	...	...	...	...	...	...	...	...	1	1	...	1	3	...	...	6·1	6·1	...	6·1	18·4	6·1	1	2	10·8	28·4	33
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	8	16	24	21·0	42·0	63·1	50	...	...	11	1	1	1	14	...	...	28·9	2·6	2·6	2·6	36·8	36·8	7	7	33·8	40·3	83
Darjiling ...	Darjiling	4,579	2,439	7,018	1	2	3	7·4	14·8	22·2	50	...	...	3	...	...	...	3	...	...	22·2	...	...	...	22·2	37·0	1	2	11·4	42·6	26
Dacca ...	Dacca	42,782	37,379	80,161	7	13	20	4·5	8·4	13·0	53	3	3	5	6	...	10	27	1·9	1·9	3·2	3·9	...	6·5	17·5	22·1	15	12	18·2	16·7	109
	Naraingunj ...	7,605	4,956	12,561	4	5	9	16·6	20·7	37·3	80	...	...	2	...	...	2	4	...	...	8·3	...	...	8·3	16·6	4·1	4	...	27·4	...	No female death.
Chittagong ...	Chittagong ...	13,340	8,799	22,139	2	2	4	4·7	4·7	9·4	100	...	...	2	...	...	2	4	...	...	4·7	...	...	4·7	9·4	16·4	3	1	11·7	5·9	198
Tipperah ...	Comillah	8,153	5,353	13,506	3	1	4	11·6	3·8	15·4	300	...	...	1	...	...	1	2	...	...	3·8	...	...	3·8	7·7	15·4	2	...	12·8	...	No female death.
Patna	Patna City ...	78,762	81,475	160,237	30	31	61	9·7	10·1	19·8	96	11	1	16	5	1	12	46	3·6	·3	5·2	1·6	·3	3·9	14·9	19·8	23	23	15·2	14·7	103
Gya	Gya	38,290	37,831	76,121	23	31	54	15·7	21·2	36·9	74	9	...	43	1	2	14	69	6·1	...	29·4	·7	1·4	9·5	47·1	39·6	31	38	42·1	52·2	80
Shahabad ..	Arrah	20,960	22,505	43,465	25	15	40	29·9	17·9	47·9	166	1	2	8	...	...	...	11	1·2	2·4	9·6	...	...	...	13·2	33·5	7	4	17·4	9·2	189
Mozufferpore .	Mozufferpore ...	23,084	19,658	42,742	6	14	20	7·3	17·0	24·3	42	...	...	11	3	1	6	21	...	...	13·4	3·6	1·2	7·3	25·6	15·3	12	9	27·0	23·8	133
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	34	18	52	26·7	14·2	40·9	188	11	...	23	2	...	9	45	8·6	...	18·1	1·6	...	7·1	35·4	33·0	18	27	27·7	43·4	63
Saran	Chupra	25,116	26,554	51,670	21	17	38	21·1	17·1	38·2	123	8	3	13	1	...	9	34	8·0	5·0	13·1	1·0	...	9·1	34·2	11·1	12	22	24·8	43·1	57
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	21	8	29	19·0	7·2	26·2	262	...	...	11	2	...	3	16	...	...	10·0	1·8	...	2·7	14·5	26·8	9	7	15·8	13·1	120
Monghyr ..	Monghyr	28,154	29,366	57,520	40	24	64	36·2	21·7	57·9	163	...	...	21	4	...	9	34	...	...	19·0	3·6	...	8·1	30·7	23·9	17	17	31·4	30·1	104
Purneah ..	Purneah	8,463	6,553	15,016	2	1	3	6·9	3·5	10·4	200	...	...	2	1	...	...	3	...	...	6·9	3·5	...	...	10·4	6·9	2	1	12·3	7·9	155
Poori	Poori	13,247	11,537	24,784	2	5	7	4·2	10·5	14·7	40	...	...	8	2	...	2	12	...	...	16·8	4·2	...	4·2	25·2	14·7	7	5	27·5	22·5	122
	Total ...	550,966	510,583	1,061,574	332	285	607	15·8	13·9	29·7	113	46	10	238	54	6	115	469	2·3	·5	11·7	2·6	·3	5·6	23·0	22·4	243	226	23·9	23·0	99

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards
Burdwan ...	Burdwan	...	13	7	...	...	...	28·5	35·5	...	...	1	2	3	...	...	3	3	4	2	2	78·8	46·1	66·9	...	...	19·7	22·6	47·1	42·4	70·2
Midnapore ..	Midnapore ...	...	10	...	...	...	...	20·1	...	...	...	1	...	...	...	1	1	2	1	1	3	70·0	...	...	...	16·5	7·1	13·8	14·0	25·2	85·2
Hughli ...	Hughli and Chinsurah	...	8	7	...	...	...	16·5	59·0	...	...	1	3	...	3	...	2	1	...	1	4	61·8	70·3	...	62·9	...	16·8	9·1	...	20·0	100·3
Serampore ..	Serampore ...	...	15	...	...	...	...	30·9	...	...	...	2	1	...	3	...	3	1	...	1	4	146·5	23·8	...	70·3	...	29·0	10·5	...	27·2	149·5
	Utterpara	...	3	...	...	...	...	29·3	...	...	...	2	...	1	...	...	...	...	...	...	...	646·0	...	111·6	...	...	...	...	...	...	...
Howrah ...	Howrah	...	23	10	...	1	...	16·8	25·3	...	215·8	5	4	1	2	1	5	7	3	...	5	126·0	37·5	8·3	15·8	7·1	11·5	18·9	13·3	...	69·3
	Bali	...	6	1	...	...	...	23·3	39·7	...	...	...	1	2	...	...	...	...	1	2	1	...	52·1	97·6	...	...	...	...	26·9	99·2	71·0
Nuddea ...	Krishnagar ...	1	8	1	...	...	91·7	23·3	6·3	...	...	3	1	...	1	...	...	2	...	...	3	314·5	21·1	...	18·5	...	...	24·3	...	...	90·2
	Ranaghat	...	1	...	...	...	...	7·1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	59·9	...	...	...	...	...	...
	Santipore	...	6	1	...	...	...	15·1	5·8	...	...	3	2	...	...	...	...	...	...	...	2	186·4	35·9	...	...	...	...	...	...	...	53·0
Jessore ...	Jessore	...	1	2	...	...	...	11·5	27·2	...	...	...	...	...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	68·0	...	92·4	...
Rajshahye ...	Rampore Beauleah	...	2	12	...	...	...	10·5	63·6	...	...	1	5	2	...	...	...	...	2	2	2	128·1	193·4	50·0	...	...	...	...	42·4	83·8	108·0
Darjiling ...	Darjiling	...	3	...	...	...	...	34·0	...	...	...	1	...	1	...	...	1	...	...	...	...	429·8	...	88·9	...	...	26·0	...	...	...	...
Dacca	Dacca	...	16	11	...	...	...	20·6	14·5	...	...	5	2	...	3	...	2	4	2	5	4	137·0	14·1	...	19·6	...	6·8	17·8	12·4	54·9	37·3
	Narainganj ...	...	1	3	...	...	...	8·2	25·3	...	...	2	...	...	1	...	...	...	1	...	...	372·8	...	...	45·8	...	...	...	37·3	...	...
Chittagong ...	Chittagong ...	...	2	2	...	...	...	17·9	6·8	...	...	1	...	1	...	1	...	1	...	...	...	92·4	...	20·9	...	21·5	...	15·6	...	...	...
Tipperah ...	Comillah	...	...	2	...	...	...	...	14·1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	41·3	...	...	...	...	76·7
Patna	Patna City ...	...	38	8	...	...	...	16·6	10·2	...	...	7	7	3	2	...	7	6	4	5	5	84·5	24·9	9·3	7·2	...	12·6	13·4	11·0	18·4	18·8
Gya ...	Gya	...	63	6	...	...	...	54·6	19·4	...	...	6	5	4	2	3	12	6	6	9	16	174·3	40·9	29·7	15·5	29·8	42·4	24·5	31·9	71·2	161·6
Shahabad ...	Arrah	...	9	2	...	...	...	15·1	8·4	...	...	4	1	...	...	...	1	...	3	1	1	161·5	11·7	...	...	...	6·6	...	33·3	16·8	18·0
Monufferpore ...	Monufferpore ...	...	13	8	...	...	...	22·5	33·3	...	...	7	2	1	...	...	1	1	2	4	3	331·2	25·7	11·6	...	...	6·1	7·5	20·8	64·1	64·1
Durbhanga ...	Durbhanga ...	...	30	15	...	...	...	32·2	44·4	...	...	8	7	6	1	2	8	2	3	1	12	267·2	47·8	39·9	9·4	25·9	11·7	9·3	21·0	11·9	195·4
Saran	Chupra	...	31	3	...	...	...	...	13·1	...	...	7	6	...	...	4	5	3	1	4	4	258·0	60·4	...	...	59·9	28·2	20·0	5·6	50 3	61·1
Bhagulpore ...	Bhagulpore ...	...	7	9	...	...	...	9·2	27·2	...	...	4	3	1	...	...	1	1	2	...	4	174·2	28·8	29·9	...	...	4·8	5·6	16·5	...	57·7
Monghyr ...	Monghyr	...	30	4	...	...	...	34·9	16·5	...	...	9	4	...	...	1	7	3	2	...	8	315·2	33·4	...	...	13·8	35·2	17·5	16·3	...	116·0
Purneah ...	Purneah	...	1	2	...	...	...	5·7	18·4	...	...	1	...	...	...	...	...	...	...	2	...	183·7	...	...	...	...	...	...	...	111·0	...
Poori ..	Poori	...	12	...	...	...	...	25·4	...	...	...	...	2	...	...	...	1	2	2	3	2	...	57·9	...	...	...	9·8	25·7	31·3	69·9	57·6
	TOTAL ...	1	351	116	...	1	7·5	24·1	20·5	...	76·8	81	58	26	19	14	55	47	39	44	86	165·9	32·5	12·2	10·3	9·0	13·5	13·9	16·2	29·5	68·0

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 17th October 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	230,648	2,58,063 6 0	21,07,320 0	4,95,023 13 0	16,600 10 0	7,70,787 13 0	67,520½	79,847	147,367½
Or per mile of railway ...	.....	169 2 8	.....	325 1 5	11 0 3	505 4 4	.....	.....	.....
For previous 14 weeks of half-year	3,076,595	30,68,624 15 0	2,58,88,367 10	57,68,632 7 6	2,24,829 3 8	90,62,086 10 2	869,539½	1,063,623½	1,933,163
Total for 15 weeks ...	3,307,238	33,26,688 5 0	2,79,95,687 10	62,64,656 4 6	2,41,029 13 8	98,32,874 7 2	937,060	1,143,470½	2,080,530½
Comparison.									
Total for corresponding week of previous year	229,490½	2,61,750 9 6	17,44,963 0	4,23,041 10 6	15,623 15 8	7,00,422 3 8	61,591	67,978	129,569
Per mile of railway corresponding week of previous year ..	.....	171 9 5	.....	277 5 0	10 3 10	459 2 3	.....	.....	.....
Total to corresponding date of previous year	3,578,271	36,03,967 1 7	3,08,74,276 10	65,36,993 3 11	2,47,200 11 0	1,03,88,161 0 6	976,163	1,186,214	2,162,377

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 12th October 1889.			Receipts for week ending 11th October 1890.			Total receipts from 1st April 1889 to 12th October 1889.			Total receipts from 1st April 1890 to 11th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	7,00,422	459	1,525½	7,70,788	505	1,525½	2,24,14,912	525	1,525½	2,09,51,805	491	.....	14,63,107

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ..	*21,871	*14,136 13 0	32,683 30	2,483 8 0	27 9 0	16,647 14 0	2,063½	436	2,499½
Or per mile of railway	382½	247 2 4	571 20	43 6 8	0 7 9	291 0 9	.....	.....	.....
For previous 14 weeks of half-year	136,417	70,933 9 0	4,28,007 0	27,876 11 0	500 5 0	99,315 9 0	15,840	7,726	23,566
Total for 15 weeks ...	158,288	85,075 6 0	4,60,690 30	30,360 3 0	527 14 0	1,15,963 7 0	17,903½	8,162	26,065½
Comparison.									
Total for corresponding week of previous year	10,416½	5,808 14 8	27,132 0	2,032 6 0	40 7 6	7,881 12 2	1,878	827	2,705
Per mile of railway corresponding week of previous year ...	182	101 8 10	474 20	35 8 6	0 11 4	137 12 8	.....	.....	.....
Total to corresponding date of previous year	207,436	1,16,210 14 2	7,17,014 0	33,321 9 0	630 14 6	1,50,163 5 8	21,374	10,930	32,304

* The increase in coaching traffic is on account of pilgrims returning from Gya.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 12th October 1889.			Receipts for week ending 11th October 1890.			Total receipts from 1st April 1889 to 12th October 1889.			Total receipts from 1st April 1890 to 11th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	7,882	136 1	57½	16,646	291	57½	2,64,359	165	57½	2,43,708	152	.....	21,451

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,360	4,114 10 0	9,851 0	369 11 0	4 10 0	4,488 15 0	923	45	968
Or per mile of railway	.....	184 14 10	.....	16 9 10	0 3 4	201 12 0	.....	.....	.....
For previous 14 weeks of half-year	225,885	54,603 9 0	65,920 10	2,771 9 0	70 0 0	57,445 2 0	12,618	648	13,266
Total for 15 weeks ...	242,245	58,718 3 0	75,771 10	3,141 4 0	74 10 0	61,934 1 0	13,541	693	14,234
Comparison.									
Total for corresponding week of previous year	19,863	5,080 11 8	11,582 30	295 10 0	10 5 3	5,386 10 11	921	105	1,026
Per mile of railway corresponding week of previous year ...	.....	228 5 7	.....	13 4 7	0 7 5	242 1 7	.....	.....	.....
Total to corresponding date of previous year	268,235½	64,768 8 3	91,685 30	2,969 13 0	77 9 9	67,815 15 0	13,861	773	14,634

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 12th October 1889.			Receipts for week ending 11th October 1890.			Total receipts from 1st April 1889 to 12th October 1889.			Total receipts from 1st April 1890 to 11th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,387	242	22½	4,489	202	22½	1,50,453	241	22½	1,46,782	236	.....	3,671

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K.-D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 4th October 1890, on 763 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	159,814	62,540 0 0	6,40,912 0	1,69,690 0 0	12,510 0 0	2,44,740 0 0	18,542	36,522	55,064
Or per mile of railway	209	82 0 0	840 0	222 0 0	†1 0 0	305 0 0	.....	.....	.....
For previous 13 weeks of half-year	1,756,048	7,18,669 0 0	72,52,481 0	17,90,515 0 0	1,93,902 0 0	*27,03,146 0 0	283,405	417,236	700,641
Total for 14 weeks ...	1,915,862	7,81,209 0 0	78,93,393 0	19,60,205 0 0	2,06,472 0 0	29,47,886 0 0	301,947	453,758	755,705
Comparison.									
Total for corresponding week of previous year	177,860	70,958 0 0	7,61,743 0	2,05,695 0 0	16,337 0 0	2,92,990 0 0	23,086	39,558	62,644
Per mile of railway corresponding period of previous year ...	233	93 0 0	1,020 0	275 0 0	†1 0 0	371 0 0	.....	.....	.....
Total to corresponding date of previous year	1,938,539	8,35,936 0 0	88,65,257 0	21,17,823 0 0	2,19,408 0 0	31,73,167 0 0	314,314	438,312	752,626

* Audited up to week ending 30th August 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 5th October 1889.			Receipts for week ending 4th October 1890.			Total receipts from 1st April 1889 to 5th October 1889.			Total receipts from 1st April 1890 to 4th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,99,999	392	763	2,44,740	321	711	53,06,809	276	752	*53,30,544	260	31,735	.....

* Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	31,745	8,770 0 0	69,407 0	7,130 0 0	90 0 0	15,980 0 0	3,668	2,000	5,668
Or per mile of railway	254	70 0 0	555 0	57 0 0	1 0 0	128 0 0	.....	.....	.....
For previous 13 weeks of half-year	317,964	97,939 0 0	4,58,834 0	34,627 0 0	2,378 0 0	*1,34,944 0 0	45,975	26,892	72,867
Total for 14 weeks ...	349,729	1,06,709 0 0	5,28,231 0	41,747 0 0	2,468 0 0	1,50,924 0 0	49,643	28,892	78,535
Comparison.									
Total for corresponding week of previous year	36,084	10,983 0 0	70,682 0	8,126 0 0	89 0 0	19,198 0 0	3,572	2,932	6,504
Per mile of railway corresponding period of previous year ...	289	88 0 0	565 0	65 0 0	1 0 0	154 0 0	.....	.....	.....
Total to corresponding date of previous year	389,610	1,28,410 0 0	9,08,787 0	86,394 0 0	2,651 0 0	2,17,455 0 0	48,958	35,946	84,904

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 5th October 1889.			Receipts for week ending 4th October 1890.			Total receipts from 1st April 1889 to 5th October 1889.			Total receipts from 1st April 1890 to 4th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	19,198	154	125	15,980	128	125	3,97,302	116	125	*3,16,432	94	.....	80,870

* Audited up to week ending 30th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	17,061	5,720 0 0	24,371 0	2,100 0 0	190 0 0	8,010 0 0	2,415	705	3,120
Or per mile of railway	198	67 0 0	283 0	24 0 0	2 0 0	93 0 0	.....	.....	.....
For previous 13 weeks of half-year	191,132	59,979 0 0	1,68,865 0	14,309 0 0	3,886 0 0	*78,174 0 0	30,726	9,266	39,992
Total for 14 weeks ...	208,193	65,699 0 0	1,93,236 0	16,409 0 0	4,076 0 0	86,184 0 0	33,141	9,971	43,112
Comparison.									
Total for corresponding week of previous year	13,815	4,183 0 0	34,778 0	3,002 0 0	80 0 0	7,265 0 0	2,538	1,013	3,551
Per mile of railway corresponding period of previous year	161	49 0 0	404 0	35 0 0	1 0 0	85 0 0	.....	.....	.....
Total to corresponding date of previous year	206,684	64,446 0 0	2,90,922 0	21,109 0 0	3,169 0 0	88,724 0 0	34,889	12,778	47,667

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 5th October 1889.			Receipts for week ending 4th October 1890.			Total receipts from 1st April 1889 to 5th October 1889.			Total receipts from 1st April 1890 to 4th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,265	85	86	8,010	93	86	1,68,003	70	86	*1,68,045	73	5,042	.....

* Audited up to week ending 30th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 4th October 1890, *on* 27¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,621	920 0 0	18,803 0	1,090 0 0	10 0 0	2,020 0 0	580	170	750
Or per mile of railway ...	96	34 0 0	690 0	40 0 0	... ...	74 0 0	.....	.....	.....
For previous 13 weeks of half-year	37,316	13,030 0 0	1,13,605 0	6,174 0 0	199 0 0	*19,409 0 0	7,012	5,044	12,056
Total for 14 weeks ...	39,037	13,950 0 0	1,32,408 0	7,264 0 0	209 0 0	21,429 0 0	7,592	5,214	12,806
Comparison.									
Total for corresponding week of previous year	2,680	1,086 0 0	3,128 0	232 0 0	651 0 0	1,959 0 0	586	340	926
Per mile of railway corresponding period of previous year ...	98	40 0 0	115 0	8 0 0	24 0 0	72 0 0	.....	.....	.....
Total to corresponding date of previous year	42,012	15,428 0 0	1,27,436 0	8,447 0 0	1,263 0 0	25,138 0 0	8,054	5,241	13,295

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 5th October 1889.			Receipts for week ending 4th October 1890.			Total receipts from 1st April 1889 to 5th October 1889.			Total receipts from 1st April 1890 to 4th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
							Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,959	72	27¼	2,020	74	27¼	50,717	69	27¼	*47,441	64	.....	3,276

* Audited up to week ending 30th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

Combined System.

Approximate Return of Traffic for week ended 4th October 1890, *on* 691 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	72,660	30,530	2,19,760	30,290	6,210	66,960	12,662	11,105	23,767
Or per mile of railway ...	105·15	44·18	318·03	43·73	8·99	96·90	.....	...	.....
For previous 12 weeks of half-year	931,240	3,58,929	32,07,004	3,77,760	81,867	8,18,556	151,693	143,517	295,210
Total for 13 weeks ...	(a)1,003,900	3,89,459	(b) 34,26,764	4,07,980	*88,077	8,85,516	164,355	154,622	318,977
Comparison.									
Audited figures.									
Total for corresponding week of previous year	73,616	25,457	2,13,220	19,259	6,735	51,451	10,481	11,083	21,564
Per mile of corresponding week of previous year on 649 miles open	113·43	39·22	328·55	29·67	10·38	79·27	.....	.....	.....
Total to corresponding date of previous year	1,009,382	3,69,251	35,97,983	4,32,116	1,12,730	9,14,027	155,696	177,979	333,675

* Steam-boat earnings for the week, Rs. 5,350.
Ditto to date, „ 69,510.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 4th October 1890.			Receipts for week ending 5th October 1889.			Total receipts from 1st April 1889 to 4th October 1890.			Total receipts from 1st April 1889 to 5th October 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	66,960	96·90	649	51,451	79·27	671	22,09,196	126·4	649	22,29,750	127·92	.....	20,554

(a) Excludes 37,283 passengers, being traffic common to B. and N.-W. and T. Railways.
(b) Do. 1,55,594 maunds, ditto ditto ditto.

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FINANCIAL DEPARTMENT.

FINANCE.

Darjeeling, the 19th October 1890.

RESOLUTION.

THE Lieutenant-Governor is now in a position to review the actual financial results of the year 1888-89, the revised estimates for the year 1889-90, and the budget estimates for 1890-91. The Accountant-General's memorandum on the accounts of the first year has just been received, and the Government of India have considered the estimates which the Local Government formed of its financial position at the close of the past year, and of the funds at its disposal during the current year.

Part I.

ACCOUNTS OF 1888-89.

2. The revised estimate adopted in the Financial Resolution of the 28th September 1889 assumed that the year 1888-89 had opened with a credit balance of Rs. 33,09,000 and closed with a credit balance of Rs. 28,29,000, that the total amount available for expenditure was Rs. 5,22,10,000, and that Rs. 4,93,81,000 had been spent. The actual result was less favourable than this estimate by Rs. 1,77,917. The amount actually available for expenditure was Rs. 5,20,86,994, and the amount actually expended Rs. 4,94,35,920. The closing credit balance was Rs. 26,51,074. The following statement will show to what extent the anticipations formed at the beginning of the year were actually realized under each major head of account:—

Receipts.	Revised estimate for 1888-89, adopted in September 1889.	Actuals, 1888-89.
	Rs.	Rs.
Opening balance	33,09,000	33,06,991
Principal Heads of Revenue—		
I.—Land Revenue { Proper	95,94,000	95,87,775
{ Adjustments ...	—4,07,000	—5,01,838
III.—Salt	88,000	88,195
IV.—Stamps	1,03,79,000	1,03,79,239
V.—Excise	27,23,000	27,32,910
VI.—Provincial Rates	41,56,000	41,56,323
VII.—Customs	47,000	46,891
VIII.—Assessed Taxes	19,54,000	19,55,098
IX.—Forests	3,38,000	3,38,454
X.—Registration	5,47,000	5,46,772
Total ...	2,94,21,000	2,93,20,419
XII.—Interest	1,20,000	97,383
Posts-office, Telegraph, and Mint—		
XIV.—Telegraphs	1,000	926
Receipts by Civil Department—		
XVI.—Law and Justice—		
Courts of Law...	7,90,000	7,89,538
Jails	7,75,000	7,75,021
XVII.—Police	3,38,000	3,38,197
XVIII.—Marine	9,05,000	9,11,733
XIX.—Education	6,11,000	6,11,884
XX.—Medical	1,35,000	1,36,165
XXI.—Scientific and other Minor Departments	1,65,000	1,65,154
Total ...	37,20,000	37,27,692
Miscellaneous—		
XXII.—Receipts in aid of Superannuation	49,000	48,849
XXIII.—Stationery and Printing ...	1,75,000	1,75,073
XXV.—Miscellaneous	8,42,000	8,34,785
Total ...	10,66,000	10,58,707
Railways—		
XXVI.—State Railways (gross earnings)—		
Eastern Bengal State Railway	61,65,000	61,64,804
Other Railways	55,69,000	55,69,065
Total ...	1,17,34,000	1,17,33,869
Irrigation—		
XXIX.—Major works (direct receipts)	13,94,000	13,94,369
XXX.—Minor works and Navigation—		
By Public Works Department	8,66,000	8,67,844
By Civil Department ...	1,02,000	1,02,154
Total ...	23,64,000	23,64,367
Buildings and Roads—		
XXXII.—Civil works—		
By Public Works Department	2,00,000	2,00,076
By Civil Department ...	2,75,000	2,74,564
Total ...	4,75,000	4,74,640
Contributions ...	.....	.....
Total ...	4,89,01,000	4,87,78,003
GRAND TOTAL ...	5,22,10,000	5,20,86,994

Expenditure.	Revised estimate for 1888-89, adopted in September 1889.	Actuals, 1888-89.
	Rs.	Rs.
Direct demand on the Revenues—		
1. Refunds and drawbacks ...	1,42,000	1,40,156
2. Assignments and compensations	1,39,000	1,39,300
3. Land Revenue	35,12,000	35,13,059
5. Salt	21,000	21,223
6. Stamps	3,70,000	3,70,324
7. Excise	1,09,000	1,08,602
8. Provincial Rates	3,17,000	3,17,410
9. Customs	5,21,000	5,24,020
10. Assessed Taxes	75,000	74,865
11. Forests	1,87,000	1,88,102
12. Registration	3,00,000	2,99,730
Total ...	56,00,000	56,96,801
13. Interest on ordinary debt ...	46,000	45,802
14. Do. on other obligations ...	6,000	.....
Post-Office, Telegraph, and Mint—		
16. Telegraphs	1,000	884
Salaries and expenses of Civil Department—		
18. General Administration ...	16,02,000	15,71,095
19. Law and Justice—		
Courts of Law	81,02,000	81,01,736
Jails	17,96,000	17,95,795
20. Police	48,37,000	48,34,099
21. Marine	9,88,000	10,71,198
22. Education	24,58,000	24,58,200
24. Medical	14,88,000	14,87,730
25. Political	24,000	24,462
26. Scientific and other Minor Departments	3,14,000	3,10,050
Total ...	2,16,09,000	2,16,54,365
Miscellaneous—		
29. Superannuation, &c.	13,70,000	13,70,007
30. Stationery and Printing ...	10,21,000	10,21,438
32. Miscellaneous	2,26,000	2,40,632
Total ...	26,17,000	26,32,077
Famine Relief and Insurance—		
33. Famine Relief	54,000	54,338
37. Construction of Railways ...	—11,000	—10,803
Railways (Revenue account)—		
38. State Railways—		
Working expenses. { Eastern Bengal State Railway ...	31,65,000	31,64,804
{ Other Railways ...	27,84,000	27,84,203
Interest on debt	32,61,000	32,61,382
40. Subsidized Companies—Land, &c.	.....	—366
41. Miscellaneous Railway expenditure	1,43,000	1,42,692
Total ...	93,53,000	93,52,715
Irrigation—		
42. Major works—		
Working expenses	14,18,000	14,18,090
Interest on debt	23,40,000	23,39,849
43. Minor works and Navigation—		
By Public Works Department	14,76,000	14,75,746
By Civil Department ...	2,000	1,911
Total ...	52,36,000	52,35,596
Buildings and Roads—		
45. Civil Works—		
By Public Works Department	39,04,000	39,04,303
By Civil Department ...	1,20,000	1,19,658
Total ...	40,24,000	40,23,961
Contributions ...	7,50,000	7,50,182
Total ...	4,93,81,000	4,94,35,920
Closing balance ...	28,29,000	26,51,074
GRAND TOTAL ...	5,22,10,000	5,20,86,994
Provincial surplus (+) or deficit ...	—4,80,000	—6,57,917

REVENUE.

3. The net decrease of Rs. 1,22,997 under the head of Receipts is principally due to the fact that no credit was afforded to Provincial Revenues for the assignment made by the Government of India on account of the cost of the construction of a vessel to replace the pilot brig *Cassandra*, and for which a provision of one lakh was included in the revised estimate. The total cost on account of the

brig has been adjusted in the accounts of 1889-90. The principal change introduced into the accounts of 1888-89 is the reclassification of loans and advances, the control of which has been made over to the Provincial Government. The interest on these loans received during the year amounted to Rs. 24,820, viz.:—

	Rs.
On loans to Municipalities and other Public Corporations, excluding Presidency Corporation	1,324
On loans to landholders and other notabilities	345
On advances to cultivators	12,192
On advances under special laws	10,959
Total ...	24,820

The 4 per cent. payable to the Imperial Revenues on the amount advanced from the treasury amounted to Rs. 45,802, and the difference between the two amounts, Rs. 20,982, has been credited to Provincial under the head of Land Revenue.

EXPENDITURE.

4. The actual expenditure shows a net increase of Rs. 54,920 compared with the revised estimate. There was an increase of Rs. 83,198 under "Marine," in consequence of larger payments made than were anticipated to the Government Dockyard at Bombay for the cost of building the pilot brig to replace the *Cassandra*. The final adjustment of accounts also caused an increase of Rs. 14,632 under "Miscellaneous." Against these increases there was a decrease of Rs. 30,905 under "General Administration," caused chiefly by the restricted expenditure under "Tour expenses of the Lieutenant-Governor" and by savings under "Commissioners" on account of privilege leave absences of officers during the year. There were also small decreases under "Police" and "Scientific and other Minor Departments."

5. The transactions of the Provincial loans and advances not included in the cash account are as follow:—

	1889-90.		
	Outgoings.	Receipts.	Closing balance.
	Rs.	Rs.	Rs.
Advances to cultivators, &c.—Loans under the Land Improvement Act XIX of 1883 ...	2,44,714	56,233	1,88,481
Advances to cultivators under Act XIII of 1884	2,07,851	26,849	1,81,002
Famine advances	5,318	4,731	587
Advances under special law—Zemindary embankment advances	1,50,067	29,756	1,20,311
Drainage advances—			
Ampta drainage	52	.....	52
Howrah do.	2,94,868	24	2,94,844
Nuddea do.	290	.....	290
Rajapore do.	5,45,590	.....	5,45,590
Dancoonee do.	73,555	33,060	40,495
Protapkhally do.	12	.....	12
Loans to landholders	19,000	255	18,745
Do. to Darjeeling Municipality	28,960	1,771	27,189
Do. to Mirza Mahomed Hossain's Fund ...	505	205	300
Total ...	15,70,782	1,52,884	14,17,898

Part II.

REVISED ESTIMATE, 1889-90.

6. A revised estimate, based on the actuals of eight months, was submitted to the Government of India with letter No. F $\frac{1-E}{41}$ 62, dated 30th January 1890. A few important changes in these estimates were again reported on the

6th March 1890. The year has now expired, and although the account has not yet been finally closed and is still open to adjustment, there are sufficient materials to make an approximate estimate of the actual financial position of the province at the close of the year. The following statement shows the revised estimates as framed by the Local Government, the estimates as modified by the Government of India, and the estimates as now adopted with reference to the preliminary actuals of the year :—

Receipts.	Revised estimate, Bengal Government.	Revised estimate passed by Government of India.	Revised estimate now adopted.
	Rs.	Rs.	Rs.
Opening balance	26,51,000	26,51,000	26,51,000
Principal heads of revenue—			
I.—Land Revenue	99,13,000	1,01,84,000	1,03,08,000
III.—Salt	1,18,000	1,18,000	1,24,000
IV.—Stamps	1,05,75,000	1,06,50,000	1,06,78,000
V.—Excise	25,50,000	25,50,000	26,19,000
VI.—Provincial Rates	42,77,000	43,00,000	43,06,000
VII.—Customs	50,000	50,000	55,000
VIII.—Assessed Taxes	20,00,000	20,25,000	20,33,000
IX.—Forests	3,85,000	3,65,000	3,84,000
X.—Registration	5,75,000	5,87,000	6,00,000
Total ...	2,94,98,000	3,08,29,000	3,11,57,000
XII.—Interest	1,15,000	1,15,000	1,03,000
Post-office, Telegraph, and Mint—			
XIV.—Telegraphs	1,000	1,000	1,000
Receipts by Civil Department—			
XVI.—Law and Justice—			
Courts of Law	7,90,000	7,90,000	8,03,000
Jails	7,45,000	7,45,000	8,64,000
XVII.—Police	4,06,000	4,06,000	4,27,000
XVIII.—Marine	8,60,000	8,60,000	8,54,000
XIX.—Education	5,70,000	5,70,000	5,70,000
XX.—Medical	1,36,000	1,36,000	1,46,000
XXI.—Scientific and other Minor Departments.	1,76,000	1,76,000	1,56,000
Total ...	36,83,000	36,83,000	38,20,000
Miscellaneous—			
XXII.—Receipts in aid of Superannuation.	46,000	46,000	45,000
XXIII.—Stationery and Printing ...	1,60,000	1,60,000	1,50,000
XXV.—Miscellaneous	8,28,000	8,28,000	8,06,000
Total ...	10,34,000	10,34,000	10,01,000
Railways—			
XXXVI.—State Railways (gross earnings)—			
Eastern Bengal State Railway.	63,50,000	63,15,000	61,01,000
Other Railways	59,39,000	62,86,000	64,03,000
Total ...	1,22,89,000	1,26,01,000	1,25,04,000
Irrigation—			
XXIX.—Major works (direct receipts).	14,44,000	14,44,000	15,21,000
XXX.—Minor works and Navigation—			
By Public Works Department.	8,00,000	8,00,000	7,89,000
By Civil Department ..	1,03,000	1,03,000	1,08,000
Total ...	23,47,000	23,47,000	24,18,000
Buildings and roads—			
XXXII.—Civil works -			
By Public Works Department.	2,79,000	2,42,000	2,53,000
By Civil Department ...	3,00,000	3,00,000	3,17,000
Total ...	5,79,000	5,42,000	5,70,000
Contributions	.....	.....	.....
Total ...	4,95,46,000	5,11,52,000	5,15,74,000
Grand Total ...	5,21,97,000	5,38,03,000	5,42,25,000

Expenditure.	Revised estimate, Bengal Government.	Revised estimate passed by Government of India.	Revised estimate now adopted.
	Rs.	Rs.	Rs.
Direct demand on the revenues—			
1. Refunds and drawbacks	1,38,000	1,38,000	1,50,000
2. Assignments and compensations ...	1,54,000	1,54,000	1,55,000
3. Land Revenue	35,24,000	35,36,000	35,67,000
5. Salt	89,000	89,000	46,000
6. Stamps	3,71,000	3,88,000	3,83,000
7. Excise	1,34,000	1,34,000	1,40,000
8. Provincial Rates	3,25,000	3,35,000	3,37,000
9. Customs	5,35,000	5,35,000	5,39,000
10. Assessed Taxes	81,000	81,000	81,000
11. Forests	2,25,000	2,05,000	1,95,000
12. Registration	3,15,000	3,15,000	3,15,000
Total ...	58,91,000	59,10,000	59,08,000
13. Interest on ordinary debt	75,000	75,000	68,000
Post-office, Telegraph, and Mint—			
16. Telegraphs	1,000	1,000	1,000
Salaries and expenses of Civil Department—			
18. General Administration	15,92,000	15,93,000	16,16,000
19. Law and Justice—			
Courts of Law	81,01,000	81,30,000	81,58,000
Jails	17,60,000	18,20,000	19,00,000
20. Police	53,12,000	53,12,000	52,99,000
21. Marine	11,48,000	11,48,000	12,03,000
22. Education	24,73,000	24,40,000	24,94,000
42. Medical...	15,03,000	15,22,000	15,27,000
25. Political...	24,000	24,000	21,000
26. Scientific and other Minor Departments.	3,05,000	3,05,000	3,04,000
Total ...	2,22,17,000	2,22,04,000	2,25,25,000
Miscellaneous—			
29. Superannuation, &c.	14,26,000	14,35,000	14,36,000
30. Stationery and Printing	10,13,000	10,13,000	9,87,000
32. Miscellaneous	2,19,000	2,19,000	2,73,000
Total ...	26,58,000	26,67,000	26,96,000
Famine Relief and Insurance—			
33. Famine Relief	3,75,000	3,75,000	1,40,000
37. Construction of Railways	—2,000	—2,000	.....
Railways (Revenue account)—			
38. State Railways—			
Working expenses { Eastern Bengal State Railway.	33,50,000	33,15,000	31,01,000
Working expenses { Other Railways ...	27,81,000	27,66,000	29,84,000
Interest on debt	34,45,000	34,41,000	34,33,000
40. Subsidized Companies—Land, &c.	1,000	1,000	1,000
41. Miscellaneous Railway expenditure	85,000	83,000	82,000
Total ...	96,62,000	96,06,000	96,01,000
Irrigation—			
42. Major works—			
Working expenses	14,36,000	14,37,000	13,56,000
Interest on debt	23,08,000	23,05,000	23,64,000
43. Minor works and Navigation—			
By Public Works Department	16,96,000	16,96,000	14,19,000
„ Civil Department	2,000	2,000	2,000
Total ...	55,02,000	55,00,000	51,41,000
Buildings and roads—			
45. Civil works—			
By Public Works Department	29,78,000	29,78,000	31,24,000
„ Civil Department	60,000	60,000	54,000
Total ...	30,38,000	30,38,000	31,78,000
Contributions	8,00,000	8,00,000	11,88,000
Total ...	5,02,17,000	5,02,64,000	5,04,88,000
Closing balances	19,80,000	35,39,000	37,37,000
Grand Total ...	5,21,97,000	5,38,03,000	5,42,25,000
Provincial surplus (+) or deficit (—)	(—)6,71,000	(+)8,88,000	(+)11,36,000

Receipts.

7. *Land Revenue.*—The total Land Revenue receipts for the year 1889-90, as estimated by the Local Government in January last, amounted to

Rs. 3,82,59,000, and this estimate was raised by the Government of India to Rs. 3,86,50,000. The Comptroller-General's statements show that the total collections in 1889-90 were Rs. 3,89,05,000. The 10 per cent. on collections from Government estates amounts to Rs. 4,14,000, and the total Provincial share of land revenue for the year is therefore one-fourth of (Rs. 3,89,05,000—Rs. 4,14,000) + Rs. 4,14,000, or Rs. 1,00,37,000. This amount has been taken as the revised estimate of Provincial share of Land Revenue (proper) for 1889-90. The adjustments between Imperial and Provincial will result in a net credit for Rs. 2,71,208 to the latter as shown below :—

	Estimate of the Government of Bengal.	Estimate of the Government of India.	Revised estimate now adopted.
	Rs.	Rs.	Rs.
Fixed contribution to Imperial ...	—6,90,000	—6,90,000	—6,90,000
For special contribution to Imperial ...	—10,00,000	.....	.....
„ new pilot brig	+1,50,000	+1,50,000	+1,91,423
„ Orissa Coast Canal	+1,81,000	+1,81,000	+1,81,000
„ Hidgellee Tidal Canal	+1,85,000	+1,85,000	+1,85,000
„ Interest on exchange, State Railways	+93,000	+93,000	+93,000
„ Hire of the steamer *Heron* ...	+7,000	.....	.....
„ Inter-provincial adjustments ...	—42,000	+30,000	+46,621
„ Adjustment for Shajehanpore rum ...	+17,000	+24,000	+22,647
„ „ „ Bengal-made rum ...	.....	.....	—10,261
„ „ „ ganja	—44,000	—48,000	—45,000
„ Half the cost of the Special Branch of the Police Office	+5,000	+5,000	+1,292
„ Mr. Killay's salt-weighing machine ...	+33,000	+33,000	+33,000
„ Custom House Appraisers ...	+8,000	+8,000	+7,280
„ Conservation of ancient monuments ...	+1,000	+1,000	+1,000
„ Petroleum Wharf Establishment ...	+4,000	+4,000	+4,000
„ Accommodation for the Wharf Officers at Budge-Budge	...	.....	+25,000
„ Eastern Bengal Railway Police ...	+41,000	+41,000	+41,000
„ Political charges	+21,000	+21,000	+21,000
„ Trial borings of seams of coal in Sonthal Pergunnahs	—4,000	—4,000	—4,475
„ Calcutta Police	+2,00,000	+2,00,000	+2,00,000
„ Forest Survey charges	—3,000	—3,000	—2,900
„ New method of testing by distillation the strength of imported spirits ...	+3,000	+3,000	+2,500
„ Adjustment on account of new classification of rewards out of criminal fines in Excise and Stamp cases ...	.....	.....	—28,859
Total ...	—8,34,000	+2,34,000	+2,71,208

The addition of Rs. 2,71,000 to the Provincial share of Land Revenue against a net credit for Rs. 8,34,000 to Imperial provided for in the revised estimate of the Local Government is chiefly due to the decision of the Government of India to appropriate the special contribution of 10 lakhs in 1890-91 instead of in 1889-90.

8. *Salt.*—The original estimate under this head was raised from Rs. 83,000 to Rs. 1,18,000 in consequence of the increase under "Rents of warehouses," caused chiefly by the reduction of the rate of rent from Rs. 5 to Rs. 3 for 1,000 maunds of salt bonded. The amount of salt bonded during the year was the largest on record, and the salt was kept longer in the golahs than formerly. The actual Provincial receipts have amounted to Rs. 1,24,000.

9. *Stamps.*—The revised estimate of the Local Government under this head, amounting to Rs. 1,05,75,000 (Provincial share), was raised to Rs. 1,06,50,000 by the Government of India. The Comptroller-General's statements show that the total receipts amounted to Rs. 1,42,38,000. The revised estimate of Provincial share has accordingly now been placed at Rs. 1,06,78,000. The increase was chiefly under court-fee stamps.

10. *Excise.*—The estimate of receipts under this head was originally placed by the Accountant-General at Rs. 1,11,09,000, but was reduced by the Local Government to Rs. 1,05,00,000, and this amount was passed by the Government of India. The results of the settlement of shops for the sale of country spirits having shown a decrease of more than 8 lakhs in license fees as compared with

the actuals of 1888-89, the estimate was reduced to Rs. 1,02,00,000 in the Financial Resolution dated the 28th September 1889, and the same figure was adopted in the revised estimate of the Government of India. The latest returns show that the total receipts of the year were not less than Rs. 1,04,75,000, and one-fourth of this, or Rs. 26,19,000, has been taken as the revised estimate of the Provincial share.

11. *Assessed Taxes.*—The revised estimate of the Local Government under this head, amounting Rs. 40,00,000, was raised by the Government of India to Rs. 40,50,000. The actuals amounted to Rs. 41,66,000, and half of this, or Rs. 20,83,000, has been taken as the revised estimate of the Provincial share. The greater portion of the increase was due to the careful revision of assessments in Calcutta.

12. The total receipts of the Civil Department amount to Rs. 38,20,000 against Rs. 36,83,000, the revised estimate adopted in the Financial Statement. The increase was chiefly under Jails.

13. *Railways.*—The following statement compares the estimates as originally proposed by the Local Government with those passed by the Government of India and those now adopted :—

	Revised estimate passed by the Local Government.	Revised estimate passed by the Government of India.	Revised estimate now adopted.
RECEIPTS—	Rs.	Rs.	Rs.
Eastern Bengal	72,23,000	74,65,000	72,70,000
Other sections of the Eastern Bengal System	37,77,000	39,85,000	41,87,000
Total Eastern System ...	1,10,00,000	1,14,50,000	1,14,57,000
Tirhoot	20,61,000	22,00,000	21,12,000
Nalhati	1,01,000	1,01,000	1,04,000
Total ...	1,31,62,000	1,37,51,000	1,36,73,000
EXPENDITURE—			
Eastern Bengal	33,50,000	33,15,000	31,01,000
Other sections of the Eastern Bengal System	17,50,000	17,35,000	20,02,000
Total Eastern System ...	51,00,000	50,50,000	51,03,000
Tirhoot	9,55,000	9,55,000	9,06,000
Nalhati	76,000	76,000	76,000
Total ...	61,31,000	60,81,000	60,85,000
NET RECEIPTS—			
Eastern Bengal	38,73,000	41,50,000	41,69,000
Others Sections of the Eastern Bengal System	20,27,000	22,50,000	21,85,000
Total Eastern System ...	59,00,000	64,00,000	63,54,000
Tirhoot	11,06,000	12,45,000	12,06,000
Nalhati	25,000	25,000	28,000
Total ...	70,31,000	76,70,000	75,88,000
Deduct excess of net receipts of the Eastern Bengal over the contract assignment of 30 lakhs...	8,73,000	11,50,000	11,69,000
Total Provincial ...	61,58,000	65,20,000	64,19,000

The total Provincial gross receipts amounted to Rs. 1,25,04,000, thus:—

	Rs.
From the Eastern Bengal	72,70,000
Less excess over the contract assignment	11,69,000
	61,01,000
From other Sections of the Eastern Bengal System ...	41,87,000
Tirhoot	21,12,000
Nalhati	1,04,000
Total ...	1,25,04,000

14. *Irrigation—Major Works.*—The orginal estimate of Rs. 13,58,000 under this head was increased to Rs. 14,44,000 in the revised estimate, but the actuals amount to Rs. 15,21,000. The excess has been general, but is most marked on the Orissa and Sone projects.

15. *Civil Works.*—The receipts in charge of the Public Works Department were originally estimated at Rs. 3,75,000, but owing to the sale of the Burrakur Iron Works, and to the Akra Brick Factory having been leased out, a reduction was anticipated, and the revised estimate was placed at Rs. 2,42,000. The actual result has been better than this by Rs. 11,000, owing to the apportionment of the sale proceeds of the Burrakur Iron Works between Imperial and Provincial Funds having been made on the basis of the actual capital outlay to end of 1889-90 instead of on the outlay to end of 1888-89 as originally made.

Expenditure.

16. *Land Revenue.*—The estimate of the Local Government was raised by the Government of India by Rs. 12,000, in order to accord with the survey estimates passed in Finance and Commerce Department Resolution No. 736, dated the 12th February 1890. The latest information shows that the total expenditure under this head is not less than Rs. 35,67,000, and this figure has been taken as the revised estimate for 1889-90.

17. *Salt.*—The original estimate, amounting to Rs. 22,000, was raised by Rs. 67,000 to provide for the cost of Kilby's patent scales for the weighment of salt, the introduction of which into the Port of Calcutta was sanctioned by Government in July 1889. But as Rs. 15,685 could only be spent on this account in 1889-90, the estimate has been reduced to Rs. 46,000, which is the amount reported to have been actually spent during the year.

18. *Forests.*—The Government of India have reduced the estimate of the Local Government under this head from Rs. 4,50,000 to Rs. 4,10,000. The expenditure amounts to Rs. 3,90,000, and the revised estimate of the Provincial share has been placed at Rs. 1,95,000.

19. *General Administration.*—There was larger expenditure under "Commissioners" than had been provided for in the revised estimate, and the total estimate now stands at Rs. 16,16,000 against Rs. 15,93,000, the estimate passed by the Government of India.

20. *Law and Justice.—Courts of Law.*—The estimate of the Local Government under "Civil and Sessions Courts" was raised by the Government of India by Rs. 29,000 with reference to later actuals than were available when the estimate was submitted by this Government. The actual charges under the heads "High Court," "Law Officers," "Civil and Sessions Court," and "Criminal Courts" exceeded the estimates, and the total expenditure is not less than Rs. 81,58,000.

21. *Jails.*—The increase under "Jail Manufactures" was attended with a corresponding increase under receipts. The revised estimate now stands at Rs. 19,00,000 against Rs. 18,20,000 passed by the Government of India.

22. *Marine.*—There has been an increase of expenditure under "Purchase and hire of ships and vessels" and "Purchase of marine stores and coal for the building, repairs, and outfit of ships and vessels." The total charges are Rs. 12,03,000 against Rs. 11,48,000, the estimate passed by the Government of India.

23. *Education.*—There was an increase of expenditure under "Inspection" and "Scholarships," and the total expenditure is Rs. 24,94,000 against Rs. 24.73,000 passed by the Local Government.

24. *Stationery and Printing.*—The value of "Stationery supplied from Central Stores" in 1889-90 amounts to Rs. 5,07,000 against Rs. 5,30,000 provided for in the estimate of the Government of India. The revised estimate of total expenditure has been reduced from Rs. 10,13,000 to Rs. 9,87,000.

25. *Miscellaneous.*—The revised estimate now adopted amounts to Rs. 2,73,000 against Rs. 2,19,000 passed both by the Government of India and the Local Government. The increase has been under the heads of "Subscriptions to periodicals," "Donations for charitable purposes," and "Miscellaneous and unforeseen charges."

26. *Famine Relief.*—A lump grant of Rs. 3,75,000 was provided in the estimate under this head. The adjustment of charges between Provincial and Local Funds, which has been reported to Government, shows a debit of only Rs. 1,40,000 to Provincial, and this figure has been provisionally adopted as the approximate expenditure on this account.

27. *Construction of Railways.*—It was anticipated, when both the budget and the revised estimates were passed, that a net credit for Rs. 2,000 would be given to the Capital account of the Kawnia and Dharla State Railway, but the debits to "Capital" on account of the coal purchased for this section more than absorbed the credits arising out of the issue of stores to "Revenue."

28. *Irrigation—Major Works.*—The "Working expenses" of these works amounts only to Rs. 13,56,000 against Rs. 14,36,500, which was provided in the departmental estimate.

29. *Minor works.*—The latest information shows that the grant provided for expenditure on Capital account of the Orissa Coast Canal and the grant for Agricultural works could not be fully utilized within the year. The total expenditure amounts only to Rs. 14,19,000 against Rs. 16,96,000, the estimate passed by the Government of India.

30. *Civil works.*—The expenditure in charge of the Public Works Department shows an increase of Rs. 1,46,000 over the final grant, which is mainly due to the adjustment of the value of iron girders supplied by the Port Storekeeper, Calcutta, for the Mahanuddy bridge, to the Darjeeling hill cart road, and to roads in the Chota Nagpore Division.

31. *Contributions.*—The revised estimate of contributions in aid of Incorporated Local Funds for the year was Rs. 8,00,000, but the total amount drawn amounts to Rs. 11,83,000. The increase is mainly due to the payment of arrear contributions to District Funds for 1887-88 and 1888-89. The Accountant-General has been instructed to take steps to prevent the recurrence of such arrears in future, and to see that the fixed annual grants to District Boards are regularly paid at the commencement of the year for which they are due, and not deferred till applications are made for them.

32. *Closing balance.*—According to the revised estimates now adopted, the closing balance of the past year amounts to Rs. 37,87,000 against Rs. 35,39,000 anticipated by the Government of India when passing the estimate for the current year.

Part III.

BUDGET ESTIMATE, 1890-91.

33. The Lieutenant-Governor has already in separate Resolutions reviewed the estimates of receipts and expenditure for the current year under each head of account. Later information, however, has led to a modification of these in some respects. The following table shows the original budget of the Local Government, the figures accepted by the Government of India, and the estimates which the Lieutenant-Governor has finally resolved to adopt :—

To be substituted for pages 2165—2168 of the Supplement to the *Calcutta Gazette*, dated 29th October 1890.

Receipts.	Estimate of Government of Bengal.	Estimate passed by the Government of India.	Estimate now adopted.
	Rs.	Rs.	Rs.
Opening balance	19,80,000	35,39,000	37,87,000
Principal Heads of Revenue—			
I.—Land Revenue ... Proper	97,93,000	98,40,000	98,70,000
I.—Land Revenue ... Adjustment ...	−2,16,000	−10,78,000	−10,99,000
III.—Salt	1,00,000	1,00,000	1,30,000
IV.—Stamps	1,06,50,000	1,06,50,000	1,08,00,000
V. Excise			3,000
			90
Receipts by Civil Department—			
XVI.—Law and Justice—			
Courts of Law	7,84,000	7,84,000	8,00,000
Jails	8,32,000	8,37,000	10,12,000
XVII.—Police	4,34,000	4,34,000	4,34,000
XVIII.—Marine...	8,70,000	8,70,000	8,40,000
XIX.—Education	5,69,000	5,69,000	5,69,000
XX.—Medical	1,40,000	1,40,000	1,46,000
XXI.—Scientific and other Minor Departments.	1,41,000	1,41,000	1,41,000
Total ...	37,76,000	37,81,000	39,42,000
Miscellaneous—			
XXII.—Receipts in aid of Superannuation ...	56,000	56,000	1,31,000
XXIII.—Stationery and Printing...	1,65,000	1,65,000	1,65,000
XXV.—Miscellaneous	7,71,000	7,71,000	7,71,000
Total ...	9,92,000	9,92,000	10,67,000
Railways—			
XXVI.—State Railways (gross earnings)—			
Eastern Bengal State Railway ...	63,60,000	63,60,000	63,60,000
Other Railways	60,51,000	63,41,000	63,41,000
Total ...	1,24,11,000	1,27,01,000	1,27,01,000
Irrigation—			
XXIX.—Major Works (direct receipts)... ...	14,50,000	14,50,000	14,50,000
XXX.—Minor Works and Navigation—			
By Public Works Department ...	8,32,000	8,32,000	8,00,000
„ Civil Department	1,02,000	1,02,000	1,02,000
Total ...	23,84,000	23,84,000	23,52,000
Buildings and Roads—			
XXXII.—Civil Works—			
By Public Works Department ...	1,50,000	1,50,000	1,50,000
„ Civil Department	2,29,000	2,29,000	2,29,000
Total ...	3,79,000	3,79,000	3,79,000
Contributions	.....	.....	.....
Total ...	5,02,59,000	4,97,89,000	4,99,65,000
GRAND TOTAL ...	5,22,39,000	5,33,28,000	5,37,52,000

Expenditure.	Estimate of Government of Bengal.	Estimate passed by the Government of India.	Estimate now adopted.
	Rs.	Rs.	Rs.
Direct demand on the revenues—			
1. Refunds and drawbacks	1,39,000	1,39,000	1,39,000
2. Assignments and compensations	1,53,000	1,53,000	1,53,000
3. Land Revenue	36,16,000	36,39,000	36,38,000
5. Salt	66,000	66,000	93,000
6. Stamps	3,89,000	3,94,000	3,85,000
7. Excise	1,55,000	1,55,000	1,64,000
8. Provincial Rates	3,15,000	3,15,000	3,48,000
9. Customs	5,50,000	5,50,000	5,54,000
10. Assessed Taxes	93,000	96,000	96,000
11. Forests	2,23,000	2,30,000	2,23,000
12. Registration	3,11,000	3,11,000	3,11,000
Total ...	59,93,000	60,48,000	61,04,000
3. Interest on Ordinary Debt	1,22,000	1,08,000	1,08,000
t-office, Telegraph, and Mint—			
6. Telegraphs	1,000	1,000	1,000
aries and expenses of Civil Department—			
8. General Administration	15,66,000	15,63,000	15,82,000
9. Law and Justice—			
Courts of Law	82,03,000	82,03,000	82,41,000
Jails	18,92,000	18,89,000	20,70,000
0. Police	51,79,000	52,01,000	52,80,000
1. Marine	8,86,000	8,86,000	9,25,000
22. Education	24,67,000	24,67,000	24,61,000
24. Medical	15,11,000	15,11,000	15,34,000
25. Political	20,000	20,000	20,000
26. Scientific and other Minor Departments	2,98,000	2,98,000	2,98,000
Total ...	2,20,82,000	2,20,98,000	2,24,11,000
Miscellaneous—			
29. Superannuation, &c.	14,47,000	14,47,000	14,70,000
30. Stationery and printing	10,31,000	10,31,000	10,31,000
32. Miscellaneous	2,46,000	2,46,000	2,51,000
Total ...	27,24,000	27,24,000	27,52,000
Famine Relief and Insurance—			
33 Famine Relief	1,00,000	1,00,000	1,00,000
37. Construction of Railways	25,000	25,000	25,000
Railways (Revenue account)—			
38. State Railways—			
Working expenses { Eastern Bengal State Railway.	33,60,000	33,60,000	33,60,000
Working expenses { Other Railways	28,14,000	28,20,000	28,20,000
Interest on debt	35,48,000	35,75,000	35,75,000
40. Subsidized Companies, Land, &c.	5,000	5,000	16,000
41. Miscellaneous Railway expenditure ...	68,000	69,000	69,000
Total ...	97,95,000	98,29,000	98,46,000
Irrigation—			
42. Major Works—			
Working expenses	14,19,000	14,19,000	14,19,000
Interest on debt	23,94,000	23,87,000	23,87,000
43. Minor Works and Navigation—			
By Public Works Department .	17,33,000	17,33,000	17,53,000
„ Civil Department	2,000	2,000	2,000
Total ...	55,48,000	55,41,000	55,61,000
Buildings and Roads—			
45. Civil Works—			
By Public Works Department ...	28,97,000	28,97,000	34,20,000
„ Civil Department	90,000	88,000	94,000
Total ...	29,87,000	29,85,000	35,14,000
Contributions	8,30,000	8,30,000	8,30,000
Total ...	5,02,07,000	5,02,89,000	5,12,46,000
Closing balance ...	20,32,000	30,39,000	25,06,000
GRAND TOTAL ...	5,22,39,000	5,33,28,000	5,37,52,000
Provincial surplus (+) or deficit ...	+52,000	−5,06,000	−12,81,000

34. *Land Revenue.*—The total collections in 1889-90 amount to Rs. 3,89,05,000, and the estimate for 1890-91 has been placed at Rs. 3,82,79,000. The collections in the first five months of the current year amounted to Rs. 74,72,000 against Rs. 77,50,000 obtained in the corresponding period of last year. These figures do not justify any change in the estimate of total collections, but the Provincial assets from the 10 per cent. on collections on Government estates, which were estimated at Rs. 3,60,000, with reference to the actuals of 1888-89, amounting to Rs. 3,26,000, amounted to Rs. 4,14,000 in 1889-90,

and as the receipts in the first four months of the current year show an increase of Rs. 13,000 over those of the corresponding period of last year, there is no reason why the estimate should be placed at a lower figure than four lakhs. The estimate on this account has accordingly been raised to Rs. 4,00,000. The Provincial share of the total revenue will therefore be one-fourth of (3,82,79,000—4,00,000)+4,00,000, or Rs. 98,70,000. The adjustments between Imperial and Provincial will probably result in a net debit of Rs. 10,99,000 against Provincial as shown below:—

	Annual estimate of the Government of Bengal.	Estimate of the Government of India.	Estimate now adopted.
	Rs.	Rs.	Rs.
Fixed contribution to Imperial ...	—6,90,000	—6,90,000	—6,90,000
Special benevolence to Imperial ...	.....	—10,00,000	—10,00,000
Hidgellee Tidal Canal ...	+2,10,000	+2,10,000	+2,10,000
Interest on exchange, Railways ...	+93,000	+93,000	+93,000
Inter-provincial adjustments ...	—82,000	+30,000	+30,000
Adjustment for Shajehanpore rum	+17,000	+24,000	+24,000
Half the cost of the Special Branch of the Police Office	+5,000	+5,000	+5,000
Adjustment for ganja exported ...	—44,000	—25,000	—25,000
Custom House Appraisers ...	+8,000	+8,000	+8,000
Conservation of ancient monuments ...	+1,000	+1,000	+1,000
Petroleum wharf establishment at Budge-Budge	+4,000	+4,000	+4,000
Eastern Bengal Railway Police ...	+41,000	+41,000	+41,000
Political charges	+21,000	+21,000	+21,000
Calcutta Police	+2,00,000	+2,00,000	+2,00,000
Forest survey charges ...	—3,000	—3,000	—3,000
New method of testing distillation of imported spirits ...	+3,000	+3,000	+3,000
Adjustment on account of the new classification of rewards out of criminal fines in excise and stamp cases	.....	.....	—30,000
For the up-keep of the *Rhotas* ...	.....	.....	9,000
Total ...	—2,16,000	—10,78,000	—10,99,000

The difference between the estimate of the Government of India and that now adopted is due to a credit for Rs. 9,000 afforded to Provincial for the up-keep of the *Rhotas*, and to a debit of Rs. 30,000 on account of the rewards paid out of criminal fines in excise and stamp cases being now adjusted departmentally, instead of, as formerly, under the wholly Provincial head of "Law and Justice."

35. *Salt.*—The receipts under this head during the first four months of the current year amounted to Rs. 43,000 against Rs. 39,000 obtained in the corresponding period of 1889-90. The total receipts in 1889-90 amount to Rs. 1,24,000; and as some further increase is anticipated when the railway siding and other works now under construction in the Sulkeah Salt Golahs have been completed, the estimate for 1890-91 has been raised from Rs. 1,00,000 to Rs. 1,30,000.

36. *Stamps.*—The total receipts from stamps amount to Rs. 1,42,38,000 in 1889-90 against Rs. 1,42,00,000, the revised estimate for the year. The details furnished in the district returns show that, while the receipts from the sale of "General stamps," including duties and penalties, increased by Rs. 1,14,000 in the first five months of the current year over those of the corresponding period of last year, the proceeds from the sale of "Court-fee stamps" and "Plain paper" diminished by Rs. 2,61,000. The increase under non-judicial stamps and the decrease under court-fee stamps have not been confined to one month, but have been spread over all the months except June, in which the receipts from court-fees were nearly equal in two years. A part of the latter decrease is probably due to the reduction of the rate of copying

fees from 4 annas to 3 annas per folio which has been sanctioned with effect from 1st April 1890, but an allowance of one lakh was made for this in the estimate originally sanctioned. These figures give some cause for anxiety as to the continued expansiveness of this source of revenue, and they certainly tend to show that it will not be safe to adhere to the original estimate of Rs. 1,42,00,000. The estimate under "General stamps" will be raised from Rs. 39,37,000 to Rs. 42,00,000, and that under "Court-fee stamps" reduced from Rs. 1,02,63,000 to Rs. 98,00,000, and the total placed at Rs. 1,40,00,000. The Provincial share will amount to Rs. 1,05,00,000.

37. *Excise.*—The estimate of total revenue under this head amounts to Rs. 1,02,00,000. The Comptroller-General's statements show that the actual receipts in 1889-90 amounted to Rs. 1,04,75,000. The results of the recent settlement of excise shops for 1890-91 show a falling off of nearly two lakhs in "License fees" as compared with the last year, but the details furnished in the district returns show that, while the receipts from "License fees" diminished by Rs. 1,77,000 in the first five months of the current year, the receipts under other heads increased by Rs. 1,55,000. In view of these figures, and looking to the falling off of revenue in the Patna Division in particular, the Lieutenant-Governor considers that it will not be safe to place the estimate for the current year at a higher figure than Rs. 1,04,00,000. The Provincial share will be Rs. 26,00,000.

38. *Customs.*—The revised estimate of Provincial receipts under this head for 1889-90 now stands at Rs. 55,000. The receipts during the first four months of the current year show an increase of Rs. 2,000, and there is no reason to anticipate any falling off. The estimate will be raised from Rs. 50,000 to Rs. 55,000.

39. *Assessed Taxes.*—The Government of India placed both the revised estimate for 1889-90 and the estimate for 1890-91 at Rs. 40,50,000. The receipts in 1889-90 amount to Rs. 41,66,000. The estimate for the current year can safely be raised to Rs. 41,50,000. The Provincial share will stand at Rs. 20,75,000.

40. *Forests.*—The estimate of total receipts has been reduced by Rs. 14,000, and a corresponding reduction has been made on the expenditure side.

41. *Interest.*—The Government of India have accepted the revised estimate of loans and advances for 1889-90 as passed by this Government, but have made a lump deduction of Rs. 6,85,000 from the provision made under the head of "Loans to municipalities and other local bodies" for 1890-91. This deduction will reduce the estimate of Provincial receipts from Interest by Rs. 15,000, and the amount payable to the Imperial Government by Rs. 14,000. The estimate of Provincial receipts will therefore be reduced from Rs. 1,59,000 to Rs. 1,44,000.

42. *Law and Justice—Courts of Law.*—The total receipts under this head in the first four months of the current year show an increase of Rs. 29,000 over those of the corresponding period of last year. The approximate actuals for 1889-90 were Rs. 8,03,000. The estimate for the current year will be raised from Rs. 7,84,000 to Rs. 8,00,000.

43. *Jails.*—The Inspector-General of Jails originally estimated the total receipts for the current year at Rs. 8,32,000, and this was accepted by the Local Government. This estimate has since been raised by Rs. 1,80,000 on account of the anticipated sale proceeds of castor-oil to be supplied to the Eastern Bengal State Railway, a corresponding additional grant being made on the expenditure side for the purchase of seed. The estimate now stands at Rs. 10,12,000.

44. *Marine.*—The original estimate under this head amounts to Rs. 8,76,000 against Rs. 8,54,000, the latest estimate for 1889-90. The receipts in the first four months of the current year show a decrease of Rs. 11,000 as compared with those of the corresponding period of last year. The Lieutenant-Governor does not consider it safe to take more than Rs. 8,40,000 as the estimate for the current year.

45. *Medical.*—The estimate of receipts under this head amounts to Rs. 1,40,000 against Rs. 1,46,000, the revised estimate as it now stands. The receipts from Medical College and School fees in the first four months of the current year show a small increase, and there is no reason to suppose that the total receipts will be less than those of the preceding year. The estimate will accordingly be raised to Rs. 1,46,000.

46. *Superannuations.*—The Provincial receipts under this head consist chiefly of contributions received from officers employed on foreign service. The original estimate for the current year stands at Rs. 56,000 against Rs. 45,000, the latest estimate for 1889-90. The increased provision is due to the anticipated increase in receipts, with reference to the Government order directing that contributions shall be levied on the salaries of employés of Municipalities and District Boards whose services have been declared to be qualifying for pension. The estimate will now be further raised by a sum of Rs. 75,000 on account of arrear contributions to be recovered from the salaries of employés under Road Cess and Educational officers transferred to the District Boards.

47. *Railways.*—The estimates of State Railways as passed by the Government of India have been compared below with the latest estimates for 1889-90 and those originally adopted by this Government for the current year:—

	Estimate, 1890-91.		Latest estimate, 1889-90.
	Bengal.	India.	
Receipts—			
	Rs.	Rs.	Rs.
Eastern Bengal ...	72,00,000	75,10,000	72,70,000
Other branches ...	38,00,000	39,90,000	41,87,000
Tirhoot ...	21,50,000	22,50,000	21,12,000
Nalhati ...	1,01,000	1,01,000	1,04,000
Total ...	1,32,51,000	1,38,51,000	1,36,73,000
Expenditure—			
Eastern Bengal ...	33,60,000	33,60,000	31,01,000
Other branches ...	17,40,000	17,40,000	20,02,000
Tirhoot ...	9,94,000	10,00,000	9,06,000
Nalhati ...	80,000	80,000	76,000
Total ...	61,74,000	61,80,000	60,85,000
Net Receipts—			
Eastern Bengal ...	38,40,000	41,50,000	41,69,000
Other branches ...	20,60,000	22,50,000	21,85,000
Tirhoot ...	11,56,000	12,50,000	12,06,000
Nalhati ...	21,000	21,000	28,000
Total ...	70,77,000	76,71,000	75,88,000
Deduct excess of net receipts of the Eastern Bengal Railway over the contract assignment of 30 lakhs	8,40,000	11,50,000	11,69,000
Total Provincial ...	62,37,000	65,21,000	64,19,000

The latest returns from the Examiner of Accounts show that the receipts of the Eastern Bengal System during the first five months of the current year were more than 2 lakhs in excess of those during the corresponding period of the past year. But against this increase must be taken into account the falling off of revenue owing to the interruption of traffic, though temporary, occasioned by the floods on both the Northern Bengal and Eastern Bengal State Railways. The decrease in the first week of September amounted to about Rs. 56,000. The management of the Tirhoot State Railway has been made over to the Bengal and North-Western Railway Company under an agreement from the 1st July 1890,

62. *Marine.*—The original estimate under this head, amounting to Rs. 8,86,000, includes a provision of Rs. 10,000 for grant to the Balasore Port Fund. As grants of Rs. 20,000 have been sanctioned to each of the "Balasore" and "Cuttack and Pooree" Port Funds, the estimate will be raised by Rs. 30,000. It will be further increased by Rs. 9,000 to provide for the up keep of the *Rhotas*, which has now been transferred to Provincial with an assignment of a like amount. The grant will stand at Rs. 9,25,000.

63. *Education.*—The estimate under this head has been reduced by Rs. 6,278, and a grant of a corresponding amount has been made to the Public Works Department for additions and alterations to the Gya Zillah School building. The grant now stands at Rs. 24,61,000.

64. *Medical.*—The expenditure under this head for 1890-91 has been estimated at Rs. 15,11,000 against Rs. 15,27,000, the latest estimate for 1889-90. The charges under Medical establishment show however no Reduction and the estimate will, therefore, be raised to Rs. 15,27,000. The estimate does not include any provision for the salary of the Sanitary Engineer and the establishment and other contingent charges of the Sanitary Board now formed under the orders of the Government of India. An Engineer has been appointed with a salary of Rs. 700 and an allowance of Rs. 100 per mensem and a small establishment, costing Rs. 39 per mensem, has been sanctioned. A provision of Rs. 7,000 will be made on this account. The total grant will stand at Rs. 15,34,000.

65. *Superannuations.*—The Provincial expenditure under this head in past years has been as follows:—

		Increase.
	Rs.	Rs.
1884-85	11,99,000	.....
1885-86	12,39,000	40,000
1886-87	12,68,000	29,000
1887-88	12,80,000	12,000
1888-89	13,70,000	90,000
1889-90	14,36,000	66,000
Estimate, 1890-91	14,47,000	11,000

The increase in the last five years amounted to Rs. 2,37,000, or an average of Rs. 47,000 a year. The actuals of the first four months of the current year show an increase of about Rs. 13,000 as compared with the corresponding period of last year. In view of these figures, it will not, be safe to place the estimate for the current year at a lower figure than Rs. 14,70,000.

66. *Miscellaneous.*—The estimate of Rs. 2,46,000 under this head has been raised to Rs. 2,51,000 to provide for an increased grant of Rs. 3,600 to the St. Mary's House of Charity Building Fund, and for the regrant of Rs. 1,352, being the unexpended balance of the Government grant on account of the passage-money of Clewer sisters, to the Honorary Secretary, Lady Canning Memorial Fund.

67. *Railways—Subsidized companies, land, &c.*—The original estimate of Rs. 5,000 under this head represents the capitalized value of the abatement of Government revenue to be credited to Government and debited to the Provincial revenues under the head "Tarkessur Railway." The estimate does not provide for the cost of land required for the construction of a metre-gauge railway from Julpigoree to the tea districts in the Western Dooars and for establishment required for the demarcation of land. It has been decided to meet the charge from Provincial revenues, and the Board of Revenue have been asked for a rough estimate of the cost of land. In the meantime a provision of Rs. 11,000 will be made on this account.

68. *Minor Works and Navigation.*—The estimate of the Government of India, amounting to Rs. 17,33,000, will be raised by Rs. 16,921, the amount added to the grant for expenditure by the Collector of Gya on irrigation in Government estates, and by Rs. 3,000 for the adjustment of expenditure on Kutubdia embankments in the Chittagong Division under this head. The total grant thus stands at Rs. 17,53,000.

69. *Civil Works by Public Works Department.*—The grant under this head was originally fixed at Rs. 28,97,000. This has subsequently been raised to Rs. 30,20,000 by the following additions and deductions :—

	Rs.	Rs.
As originally fixed		28,97,000
Add—		
Grant for the telegraph office at Budge-Budge	17,478	
Grant for the construction of pontoons (Rs. 28,210), crane and other works (Rs. 3,750) in the Sulkea Salt Golahs	31,960	
Grant for additions and alterations to the Gya Zillah School building	6,278	
Grant for the construction of a metalled road from Matigurah to Nuxulbari	60,000	
Grant for the construction of Jailors' quarters in the Rungpore Jail	2,124	
Grant for the repairs of the river bank in proximity to the Nawab's Palace at Moorshedabad .	25,000	
Grant for the repairs of the roads from Buxa and Santrabari to Chunabatti	3,000	
	———	1,45,840
		30,42,840
Deduct—		
Grant to the District Board of Gya	20,000	
„ Durbhunga Municipality ...	2,426	
	———	22,426
		30,20,414
Or in round numbers ...		30,20,000

A further grant of four lakhs will now be made to enable the Public Works Department to undertake urgent works, and especially to defray the cost of repairs and maintenance of the roads in the Darjeeling district where considerable damage has been done by the recent rains. The total grant will now stand at Rs. 34,20,000.

70. *Civil Works by Civil Department.*—The estimate under this head was originally passed for Rs. 88,000. The estimate has since been raised by Rs. 2,000 to meet the Government contribution to the Mahomedan Burial Board. It will further be raised by (2,426+1,653=) Rs. 4,079 for grants already sanctioned to the Durbhunga and the Calcutta Municipalities for the maintenance of certain roads formerly under the control of the Public Works Department and the 24-Pergunnahs District Board respectively. The total grant thus stands at Rs. 94,000.

71. *Contributions.*—The original estimate of Rs. 8,30,000 for grants-in-aid of District and other Incorporated Local Funds will be retained.

72. *Closing balance.*—According to the estimate originally passed by this Government, it was expected that the year would close with a credit balance of Rs. 20,32,000. According to the estimates now adopted, the closing balance will be Rs. 25,06,000. The improvement in the resources of the Local Government is chiefly caused by the increase under the head of Railway receipts. When the estimates were submitted to the Government of India by the Financial Department in March last, the figures of the Public Works Department, which were available at the time, showed Rs. 1,22,89,000 and Rs. 1,24,11,000 as the estimated gross receipts for 1889-90 and 1890-91 respectively. A more favourable forecast, based on later information, was submitted to the Government of India direct by that Department, and the estimates, as now finally adopted, amount to Rs. 1,25,04,000 and Rs. 1,27,01,000. The net increase in the two years amounts to Rs. 5,05,000.

ORDER.—Ordered that a copy of this Resolution be submitted to the Government of India, Department of Finance and Commerce, for information.

and there is no later information to justify any alteration of the estimate passed by the Government of India. This estimate of net receipts amounting to Rs. 65,21,000, showing an increase of Rs. 1,02,000 over the latest estimate for 1889-90, will be retained.

48. *Irrigation—Major Works.*—The revised estimate under this head for 1889-90 was originally placed at Rs. 14,44,000, and the estimate for the current year at Rs. 14,50,000. The total receipts in 1889-90 amount to Rs. 15,21,000, but the collections in the first three months of the current year were Rs 2,22,000 against Rs. 2,92,000 realized in the same period of 1889-90. In view of the fluctuating character of these receipts, the Lieutenant-Governor does not consider it safe to alter the estimate passed by the Government of India.

49. *Minor Works and Navigation.*—The returns from the Examiner of Public Works Accounts show that the receipts in the first three months of the current year amounted to Rs. 1,37,000 against Rs. 1,33,000 realized in the corresponding period of last year. The total receipts in 1889-90 amounted to Rs. 7,89,000. It will not be safe to place the estimate for the current year at a higher figure than Rs. 8,00,000. The estimate will accordingly be reduced by Rs. 32,000.

EXPENDITURE.

50. *Land Revenue.*—The Government of India have raised the original estimate of total expenditure under this head by Rs. 23,000 to accord with the estimates of the Surveyor-General passed by that Government in the Finance and Commerce Department Resolution No. 736, dated 12th February 1890. The estimate will further be increased by Rs. 2,000 for the purchase of an elephant for the Chittagong Division, for which no provision was made in the budget. The estimate of total expenditure, which would thus have risen from Rs. 36,16,000 to Rs. 36,41,000, will be reduced by Rs. 3,000, the amount transferred to the Public Works Department, Irrigation Branch, for the maintenance of the Kutubdia embankments in the Chittagong Division. The estimate will then stand at Rs. 36,38,000.

51. *Salt.*—The original estimate under this head, amounting to Rs. 30,000, was raised by Rs. 36,000 for the construction of pontoons on the river frontage of the Sulkea Salt Golahs, and of a shunting line directly connecting the golahs with the East Indian Railway. Since then a regrant of Rs. 51,425 for the purchase of Kilby's scales has been sanctioned, and an additional grant of Rs. 2,861 has been made for the completion of the sidings. The charge for pontoons, amounting to Rs. 28,210, has since been transferred to the Public Works Department. The estimate has provisionally been placed at Rs. 93,000.

52. *Stamps.*—The Government of India have raised the Provincial expenditure under this head by Rs. 25,000, chiefly under "Stamp paper supplied from Central Stores," to accord with the figures adopted in the India estimates. It has recently been decided that the rewards for the prevention or detection of offences against the laws of the Excise and Stamp Departments should be debited to "Excise" and "Stamps" respectively, and not to "Law and Justice." The new classification has come into force from the 1st April 1889, and to meet the additional liability thrown on the Imperial revenues by the change, Rs. 28,859 and Rs. 30,000 have been deducted from the Provincial share of Land Revenue for 1889-90 and 1890-91 respectively. The rewards in stamp cases are, however, comparatively few, and a grant of Rs. 1,000 will probably be sufficient for the purpose. On the other hand, it is probable that there will be some reduction under discount of stamps. On the whole, the Lieutenant-Governor considers that a grant of Rs. 3,85,000 on Provincial account against Rs. 3,83,000, the latest estimate for 1889-90, will suffice, and this figure has accordingly been now adopted.

53. *Excise.*—The original estimate under this head, amounting to Rs. 5,79,000, was subsequently raised by Rs. 40,000 to meet the cost of the construction of new distillery buildings required for the introduction of the central distillery system throughout the whole of the Presidency, Burdwan, Dacca, and Orissa

Divisions. A provision of Rs. 39,000 has also been added under the head for rewards in excise cases, a corresponding reduction being made under "Law and Justice." The total estimate will therefore stand at Rs. 6,58,000, and the Provincial share at Rs. 1,64,000.

54. *Provincial rates.*—The estimate for the current year is thus compared with the latest estimate for 1889-90:—

	Latest estimate, 1889-90.	Estimate, 1890-91.
	Rs.	Rs.
Public Works Cess establishment ...	25,000	48,000
Road Cess establishment	3,12,000	2,67,000
Total ...	3,37,000	3,15,000

In view of the approximate actuals for 1889-90, the estimate under the head of Road Cess establishment has been raised to Rs. 3,00,000, and the total placed at Rs. 3,48,000.

55. *Customs.*—The estimate under this head will be raised by Rs. 4,181, to provide for the cost of the establishment and contingencies required by the Collector of Customs, Calcutta, for the purpose of working Kilby's patent scales for the weighment of salt in the Port of Calcutta. It will now stand at Rs. 5,54,000.

56. *Forests.*—The Government of India have raised the estimate of expenditure under this head by Rs. 14,000, to provide for the forest survey charges. Against this increase there has been a reduction of a like amount as explained in paragraph 40 above. The Provincial share of the estimate amounts to Rs. 2,23,000.

57. *Interest on Ordinary Debt.*—As explained in paragraph 41, the estimate of expenditure will be reduced from Rs. 1,22,000 to Rs. 1,08,000, as passed by the Government of India.

58. *General Administration.*—The estimate of the Local Government includes a provision of Rs. 3,000 for the cost of two elephants for the Superintendent of the Tributary Mehals, Orissa. The Secretary of State has recently sanctioned the appointment of an Additional Commissioner for the Patna Division for nine months on Rs. 2,500 per mensem, and a provision of Rs. 16,000 has been made for this purpose. The estimate will therefore stand at Rs. 15,82,000.

59. *Law and Justice—Courts of Law.*—The estimate under this head will be raised by Rs. 18,000 to provide for the salary of six additional Munsifs sanctioned since the estimate was passed. Against this increase the estimate will be reduced by Rs. 40,000, being the amount transferred to "Stamps" and "Excise" on account of rewards for the prevention and detection of offences against the laws of the Stamps and Excise Departments. The total estimate will stand at Rs. 82,41,000.

60. *Jails.*—The difference of Rs. 3,000 between the original estimates of this Government and the Government of India is under the sub-head "Clothing and Bedding" under District Jails. The estimate has further been increased by Rs. 1,80,000, to provide for the purchase of castor-seed. Against this increase a sum of Rs. 2,124 has been deducted and made over to the Public Works Department for the construction of Jailors' quarters at Rungpore. The grant now stands at Rs. 20,70,000.

61. *Police.*—The Government of India have raised the estimate of this Government by Rs. 22,000. The reductions approved in the Resolution of the Home Department, No. 742, dated the 28th October 1889, have not been entirely carried out. The approximate actuals for 1889-90 were Rs. 52,99,000, and the actuals of the first four months of the current year do not show any falling off in expenditure as compared with those of the corresponding period of last year. In view of these figures, the Lieutenant-Governor does not consider it safe to place the estimate for the current year at a lower figure than Rs. 52,80,000.

Ordered also that a copy of the above Resolution be forwarded to the Board of Revenue; to all Commissioners of Divisions; to the Inspectors-General of Civil Hospitals, Police, Jails, and Registration; to the Directors of Public Instruction and Land Records and Agriculture; to the Conservator of Forests; to the Port Officer, Calcutta; to the Superintendents of Botanical Gardens and Government Printing, Bengal, and to all Departments of this Government, for information.

Ordered also that a copy of the above Resolution be forwarded to the Accountant-General, Bengal, for information, with special reference to paragraph 31.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,
Secretary to the Govt. of Bengal.

RESOLUTION ON THE REPORT ON PUBLIC INSTRUCTION IN BENGAL FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—EDUCATION.

Darjeeling, the 20th October, 1890.

RESOLUTION.

READ—

The Report on Public Instruction in Bengal for the year 1889-90.

The Education Department was in the charge of Sir A. Croft, K.C.I.E., during the year, except for the period of three months in which Mr. C. H. Tawney, C.I.E, acted for him and submitted the annual report for 1888-89. The greater length of the report now submitted than that of last year is in accordance with the wishes of Government that details should be fully examined only in alternate years. But the account furnished of the year's operations is no less interesting than any of the series which for some years past Sir A. Croft and Mr. Tawney have added to the records of the Education Department and of Government. These reports are always highly creditable to the Department of Public Instruction in Bengal. The Lieutenant-Governor has much pleasure in noticing that the present report has been laid before Government by the prescribed date.

Number under instruction.

2. The total number of pupils under instruction in the educational institutions of all classes only rose by 9,773 in comparison with the previous year. This increase was secured among private as distinguished from public institutions; the latter on the whole showed some decline. The falling off in the number of college students was slight, and, generally speaking, the figures betoken the same eagerness as has been previously noticed on the part of the upper and middle classes of the community to avail themselves of the advantages of education. The chief factor in the decrease of public institutions is to be found in the loss of aided lower primary schools, whereas the gain in the number of private institutions is partly attributable to the discovery of 1,750 elementary Koran schools hitherto unrecorded in the Dacca and Chittagong Divisions, and partly to an increase of elementary indigenous schools. Too much importance must not be attached to the fluctuations in the numbers of the lower primary schools. The indigenous schools of Chittagong, for instance, present endless difficulties in the way of accurate classification, so that primaries disappear only to be counted in another category as Koran schools. The tenure of the lowest fringe, or, to use another metaphor, of the outer circle of these primaries is described as thoroughly precarious and unstable. Hundreds, or even thousands, of these are set up, carry on feebly and intermittently for a period, and then disappear, leaving no trace. The Director has opportunely raised the question whether the country or the cause of education derives any advantage from the expenditure of money on such ephemeral schools, which make no appreciable impression on the ignorance of the rural population. The anxiety of Government to extend elementary education has been constantly declared and is an established principle of the educational policy; but a mere superficial extension, with a view to show larger numbers on the list of pupils, without requiring any depth or conformity with the existing standard, does not commend itself to the Lieutenant-Governor. The money available for primary education is necessarily limited in amount, and it is essential, in the interests of economy and of the really useful schools, that the allotment should be spent with discrimination. Under present circumstances, therefore, while the primary grant remains inexpansive, the consolidation, rather than an unlimited extension, of the primary system appears to be advisable, and the Director's recommendation is therefore accepted that, for the present, admission to the reward examination should be limited to schools that satisfy certain conditions as to number and progress of pupils as determined by inspection *in situ*, and that no school so admitted should be entitled to any reward unless it earns at the examination a certain minimum sum. The progress of education cannot be gauged by the test of numbers alone, on which the changes in the schools of the lowest grade have an effect so disproportionate to their real importance. The increase of 26,909 schools and 672,893 pupils in 10 years undoubtedly represents a real advance in the demand for education.

Financial results.

3. The expenditure as verified by the Accountant-General's figures has again exceeded the sanctioned estimate. The excess of Rs. 51,182 has, however, been balanced to a great extent by a surplus of Rs. 33,506 over the estimated receipts. After allowing for certain charges to be debited to the Public Works Department, the net deficit is only Rs. 6,295. The explanation offered by the Director deserves consideration. His budget, it appears, was reduced by the Accountant-General by the large sum of Rs. 1,64,000 on account of probable savings, after examination of the actuals of the preceding year, and he was then required to retrench Rs. 30,000 more to assist the financial necessities of Government. The result shows that, when the effect of the probable savings has been thus discounted, it is practically almost impossible for the reduced estimates to bear further curtailment. The Lieutenant-Governor recognises the loyalty with which the Director and the Department have endeavoured to meet the views of Government, and he trusts that vigilance and care may be constantly exercised in keeping down expenditure and in realizing the best possible value for the cost incurred. The total sum spent in Bengal on education of all descriptions, from the highest to the lowest, amounted to Rs. 87,43,000, an increase of Rs. 75,000 over the preceding year. The contribution from public sources declined from Rs. 32,44,000 to Rs. 32,37,000, while private expenditure rose from Rs. 54,24,000 to Rs. 55,06,000. Collegiate, secondary, primary, female, and special education were all more costly than in the previous year, whereas comparative economy was exercised in the item of buildings to the sum of a lakh and a half of rupees. The municipal contributions stand at exactly the same sum, Rs. 83,000, as last year; the Lieutenant-Governor would be glad to hear of their being increased. Steps have been taken to make the figures furnished by the municipalities to the Department correspond with those supplied by them to Government. There are difficulties in the way, it is admitted, but the matter should continue to receive attention.

District Boards as controlling agencies.

4. The educational functions delegated to the District Boards constituted under Act III (B.C.) of 1885 include the management of Government primary and middle schools, the distribution of the grant-in-aid allotment for middle schools under private management, the administration of the primary grant, the conduct of the annual examinations of primary schools for rewards, and the award of lower primary scholarships. The Boards are also authorized to establish and maintain, with the sanction of Government, schools of technical instruction, and some have already taken up this question with interest and energy. The Technical Institute, for example, established by the District Board of Rungpore, has attained considerable success. With the object of defining more clearly the functions of the Boards and their relations to the officers of the Department, revised educational rules under the Act were under consideration and public criticism during 1889-90, and finally promulgated by Government on the 18th April last. Experience has already shown the new rules to be greatly superior to the old. They give somewhat larger powers to the District Boards than they had previously enjoyed, while any departure from the existing system, in regard to the administration of funds or the control of schools, is made conditional on the sanction of Government. The power of the Inspector and his position as a controlling officer are more clearly defined. In accordance with the views of Government, Deputy Inspectors of Schools have in nearly every district been appointed ex-officio members, not only of the District Boards, but also of the Education Committees to which these bodies have generally delegated their ordinary executive duties. The advantages of this plan are already apparent, co-operation and efficiency having often taken the place of friction and mismanagement. The Lieutenant-Governor has again the pleasure of observing that the relations between the Boards and the Deputy Inspectors in the majority of districts are eminently satisfactory. Government must look to the good offices of the authorities in the Burdwan and Orissa Divisions, in which differences have arisen, to put things straight as soon as possible. On the other hand, there are indications that in some places the education work of the District Boards has been allowed to lapse too much into the hands of the Chairman or Vice-Chairman in his executive capacity. While the Lieutenant-Governor allows that there is some force in the excuse that it is ordinarily not easy to arouse any enthusiasm for educational work, except

on such occasions as present opportunities for the exercise of patronage, he desires that the District Boards, through their Education Committees, may be fully consulted in all matters of principle and importance, and that their functions may not be over-ridden by the executive officers. The Director has, in a very proper spirit, as a friendly critic, drawn attention to some shortcomings in the work of certain District Boards. It is through no fault on their part that their educational operations have in some cases been hampered for want of funds, the income from ferries and pounds not having kept pace with their educational requirements. But they must be held responsible for such matters as great delay in the despatch of business, especially in disposing of reward bills and in making up examination results, irregularities in the method of accounting for public money, misapplication of the primary grant, or failure to spend fully the allotments for primary education. These are matters which the District Boards are quite capable of correcting for themselves. It is not a matter for surprise that their control and management of middle schools of various classes is less efficient than when the work was performed by high officers of the Education Department. Sir Alfred Croft rightly observes that this decline in efficiency is part of the necessary price paid for Local Self-Government. The policy of entrusting District Boards with certain educational work, in which the Department has given them its steady support, has been deliberately adopted for reasons which have often been stated, and improvement can only be obtained by perseverance. The transfer of large educational powers to Local, as distinguished from District, Boards appears to have been prematurely attempted in some places.

Inspection.

5. The Circle Inspectors have all done a large amount of inspection duty. Among the Deputy Inspectors it is noticeable that the average number of days spent on tour varies from 118 in Orissa and 131 in the Chittagong Division to 198 in the Bhagulpore and 203 in the Patna Division. It is not explained why there should be such marked differences between one division and another, and the Director has taken proper notice of the unsatisfactory explanations offered by the three Deputy Inspectors in Orissa for their deficiencies in touring. A change in the system of reckoning the duration of tours makes any comparison with the previous year difficult. During the year the heading "days on tour" in the tabular statement of inspections has been changed to "days on tour outside head-quarters," and it has been ordered that all work done by an officer who returned the same night to his house without overpassing the five-mile limit should be reckoned as head-quarters work. The object of this change has been to frustrate the designs of some officers whose returns of inspection, showing a numerically high average of work, had been secured by the easy device of visiting schools at and near head-quarters with unnecessary frequency. The Lieutenant-Governor entirely concurs with Sir A. Croft that it is the duty of Deputy Inspectors to spend at least 150 days on actual tours within their districts, and that there is no reason why head-quarters schools should be neglected in consequence of the new rule. He will be requested to bring to the notice of Government any cases of its abuse. The inadequacy of the clerical assistance afforded to the Deputy Inspectors is a serious matter. The increased office work thrown on them since the creation of District and Local Boards, and the correspondence that will be entailed by the working of the transfer rules for primary and middle schools, are calculated to diminish their activity as inspecting officers if proper help is not allowed them. This matter has been represented to Government, but, owing to financial considerations, it has been hitherto impossible to apply a remedy. The Director will be desired to resubmit the case. The Sub-Inspectors have for the most part complied with the prescribed minimum of inspection duty, viz. 200 days and 400 schools. But the opinion of superior officers inclines to the view that there is some falling off in efficiency in their work, and that the control formerly exercised by the Department was firmer than that of the District Boards to which the Sub-Inspectors have been transferred. The anomalous position occupied by these officers may partly account for this: they have become the servants of the Boards for their work and their pay, while they are still eligible for promotion to and in the subordinate graded service; they are not under the direct control of the Deputy Inspector, but must necessarily depend largely upon his good opinion and endeavour to work up to his views.

University education.

6. During the last three years there has been an increase of nine private collegiate institutions, of which four have sprung into existence in 1889-90. There are now 38 in all, namely, Government 11, municipal 1, aided 8, unaided 18. The increasing demand for such education, and the development of private enterprise, are gratifying. Sir A. Croft strikes the right note when he says that the policy of the day clearly tends more and more towards the concentration of higher educational effort in the Presidency College and the gradual retirement of Government from the outlying colleges, where private enterprise may in time be trusted to take up the work. The number of collegiate students has fallen (for the first time since 1886) from 5,184 to 4,882, the result, it is evident, of fewer passed candidates at the Entrance Examination of 1889 being available to supply the places of those who had left the colleges after taking their degrees or otherwise. The number of successful candidates at the University Examinations again increased, and have for the last three years been as follows:—

	1888.	1889.	1890.
First Arts	481	629	996
Bachelors of Arts	323	366	399
Masters of Arts	43	58	62

The increasing number of Mahomedan candidates is noteworthy, viz. 57 in First Arts as against 21 and 19, 21 in the B.A. against 18 and 12, and 3 Masters of Arts against 1 and 1 in the two preceding years. The percentage of success achieved by the Government colleges was well maintained. The total expenditure upon collegiate education has risen during the year from Rs. 6,38,954 to Rs. 6,91,079, of which Government contributes a fraction over 40 per cent. In the Government colleges the total cost has also risen from Rs. 3,83,365 to Rs. 4,09,955, and the cost to provincial revenues from Rs. 2,30,409 to Rs. 2,52,465. The annual cost of each student in a Government college increased from Rs. 233 to Rs. 244, and the cost of his education to Government from Rs. 140 to Rs. 150. The increase in the Government expenditure is attributed partly to the absence of fewer officers than usual on furlough and partly to the loss of students and their fees—a loss from which all colleges suffered alike. This is borne out by the following figures relating to the entire body of collegiate students:—

	1888.	1889.	1890.
Average cost of each student in a college in Bengal	143	124	138
The Government share thereof	63	50	55

The college reports bear testimony to substantial progress, and mention cases of liberality of individual benefactors which merit the acknowledgments of Government.

Secondary education.

7. Though the total number of secondary schools of all classes has risen from 2,319 to 2,366, *i.e.* by 2 per cent., the number of pupils has only risen from 2,00,124 to 2,01,452, *i.e.* by ·6 per cent. This absence of corresponding increase in the number of pupils betokens an unnecessary multiplication of schools and an unhealthy competition among them for pupils. The high English and the middle English schools are both more numerous and have more pupils. The decrease in the number of middle vernacular schools is confined to schools managed by Municipal or District Boards or aided by those bodies or by Government. All middle schools in extra-urban tracts, whether maintained or aided by the Department, have been transferred to the control of District and Local Boards under the Government rules, in accordance with the Local Self-Government Act. The expenditure on secondary instruction has varied in the last two years as follows:—

	No. of schools.	Public funds.	Private funds.	Total.
		Rs.	Rs.	Rs.
1888-89 ...	2,319	6,01,539	19,34,506	25,36,045
1889-90 ...	2,366	6,08,294	20,11,672	26,19,966

The "public funds" include the provincial revenues, district funds, and municipal funds. The Education Commission recommended that a periodically

increasing provision be made in the education budget of each province for the expansion of aided institutions, but financial exigencies and the needs of primary education have prevented compliance with this policy. Not only has it been found impossible to aid the several classes of secondary schools up to the maximum percentage allowed by the grant-in-aid rules, but it becomes necessary to scrutinize every application for a renewal of a grant with a view to possible reduction and perhaps cancellation, so as to have money for new grants and still keep within budget limits. Thus there are still 477 schools, viz. 127 high English, 210 middle English, and 140 middle vernacular, which have not been placed upon the aided list. At the University Entrance Examination 2,156 boys passed in 1890 as compared with 1,153 in 1889, the percentage of success being 50 instead of 24. The schools have profited by experience, greater attention has been paid to their studies by the many unsuccessful candidates of the preceding examination, and school-masters have recognised the necessity of more systematic and careful teaching before a candidate has any chance of passing. The continued success of the Dacca Collegiate School and of the Burrisal and Furreedpore Zillah Schools is praiseworthy. The results of the Middle English and the Middle Vernacular Scholarship Examinations were far worse than in the preceding year. The full enforcement of the rule preventing successful candidates of previous years from again attending the examinations in the hope of winning scholarships affords an insufficient explanation. Sir A. Croft hesitates to ascribe this decline to a failure of efficiency under the management of District Boards, and would rather attribute it to the resumption of the more rigorous standard formerly required.

Discipline and moral training.

8. Measures have been adopted during the year for giving effect to the views of the Government of India in regard to discipline in schools and colleges. The summary of these measures given in the Director's report hardly admits of further condensation, but some of the more important steps taken deserve notice. The establishment of a special training college for teachers has been sanctioned and will be carried out as soon as funds are forthcoming. Principals of Government colleges were addressed on the subject of elevating the moral tone of the students, and the Lieutenant-Governor drew attention to the many opportunities which the study of ethics, and other occasions of college life, afforded to Professors for moral instruction of a character such as to influence their pupils and make a permanent impression. The adoption of suitable moral text-books for schools of all classes has been kept in view: and the example set by the University in preparing a book of selections for the Entrance Examination is to be followed so as to meet the requirements not only of the junior classes of high schools, but also of middle and primary schools through the medium of works in the vernacular. The maintenance in every school of conduct registers, with a record of the head-master's opinion of each boy's character and behaviour, based upon personal knowledge, has been insisted upon, and special attention is to be paid to the entries in the conduct registers of candidates for employment in Government offices. The appointment of monitors under proper safeguards has been authorized, and the system is being tried in institutions to which hostels are attached. More recently these monitors or prefects have been entrusted to a limited extent with punitive powers. A rule has been issued with the object of minimising the evil of having in the same class grown-up lads and little children. The attention of school authorities has been drawn to the necessity of encouraging outdoor games and exercises, on the understanding that no attempt should be made to create a race of acrobats out of our students. Should physical exercise in other forms not be popular, some form of drill is, under the orders of the Government of India, to be compulsory. The Director adds: "It is believed that schools at the sudder stations will find no difficulty in obtaining a person able, if necessary, to give instruction in drill; but such exercises as parallel bars, dumb-bells, cricket, football and indigenous games, including athletic sports, running, jumping, &c., are more to be commended and more likely to be generally acceptable. It has been explained that no reasonable outlay will be refused for the purpose of setting up gymnastic appliances, or of aiding cricket and football clubs." As to discipline, it is admitted that

the more closely a school is connected with the Department, the better is its discipline, and in most cases it is not so much the absence of morality as of good manners in the boys and the junior teachers that requires to be corrected. Defiance of authority, indifference if not positive disrespect, a rude offhand manner, showing no sign of respect to a superior, are sights too common in many schools. Cases of actual misbehaviour towards teachers are said to be happily rare; but they are entirely absent, and the punishment of rustication for a year or more has had a salutary effect. Cases of grave misconduct on the part of teachers themselves are not wanting: and to some extent the unhealthy state of public opinion in regard to discipline gives rise to troubles in school management. The opening of a new school as a money speculation, near an old and established institution, often has the effect of disorganising school discipline in the locality for a time. Sir A. Croft considers that it is very desirable that certificates should be refused to schools that defy the rules of discipline, or to those that are opened in a mere spirit of opposition and rivalry to other non-Government schools, without any prospect of permanence and to the injury of sound education. The Lieutenant-Governor concurs in these views, and will be prepared to receive definite suggestions on the subject. It is very satisfactory to learn that the operation of the transfer rules has been entirely wholesome, and that the revised rules recently issued are likely to check many irregularities that formerly prevailed. Simple rules for the transfer of pupils in middle and primary schools, in the spirit of those approved by Government for high schools, are being framed. Having regard to these measures, the Lieutenant-Governor is of opinion that a very considerable advance has been made in the direction desired by the Government of India. The policy indicated has had his entire concurrence and support; he has not expected anything but gradual improvement, and he looks to the co-operation of all officers of the Department in the endeavour to reform the whole tone of education in Bengal on the lines laid down by the highest authority.

Primary education.

9. The same features which were noticed in the Resolution on the report for 1888-89 have re-appeared this year in the numerical statistics of primary education. There are more upper primary schools and they have more pupils: but the gain is more than met by the loss in the lower primaries. The net result is a diminution in the number of schools by 449 and of pupils by 12,178, confined to the Presidency, Chittagong, and Orissa Divisions. Excluding payments made to primary schools from the grant-in-aid and circle fund allotments, the expenditure on primary education, controlled by the Department and by District Boards, amounted to Rs. 7,29,851, divided into Rs. 1,46,178 from provincial revenues and Rs. 5,83,673 from district funds. The following statement shows by divisions the administration and expenditure of the primary grant upon aided schools in 1889-90:—

Division.	Allotment.	Expenditure.	Number of schools.	Number of pupils.	Cost per school in rupees.	Cost per pupil in annas.
	Rs.	Rs.				
Presidency ...	91,440	89,346	4,340	126,493	20·5	11·3
Calcutta ...	9,000	9,000	201	9,485	44·7	15·1
Burdwan ...	1,20,124	1,21,144	8,704	218,763	13·9	8·8
Rajshahye ...	73,670	70,093	2,571	65,578	27·2	17·1
Dacca ...	1,00,349	88,884	4,575	113,908	19·4	12·4
Chittagong ..	71,050	67,304	4,547	98,200	14·8	10·9
Patna ...	1,02,913	98,947	5,414	118,054	18·2	13·4
Bhagulpore ...	75,234	69,965	2,540	57,995	27·5	19·3
Chota Nagpore ...	54,767	54,937	1,509	45,567	36·3	19·6
Orissa ...	60,203	59,157	4,758	73,340	12·4	12·9
Orissa Tributary Mehals ..	2,800	1,074	67	695	16·03	24·7
Total ...	7,61,550	7,29,851	39,226	928,078	18·6	12·6

The average annual cost was Rs. 18·6 per school and annas 12·6 per pupil, against Rs. 18·3 and annas 12·2 in the preceding year. The lowest cost per pupil was again in Howrah 7·3 annas, and the highest in the Chittagong Hill Tracts, 92 annas, and 55 annas in Darjeeling; but, apart from such abnormal areas, it was about 22 annas in Durbhunga, Shahabad, and Monghyr. The municipal contribution to primary schools for boys and girls was Rs. 20,827 against Rs. 20,303 and Rs. 16,355 of the last two years. It is not satisfactory that the departmental grant, which is administered by the District Committees of non-Board districts, and, as regards Government estates, municipalities and cantonments, by the Magistrate or Deputy Commissioner, shows large savings, while in Board districts a sum of about Rs. 10,000 was unspent. It is important that full use should be made of all grants sanctioned. The lower primary schools have fallen off in two years from 45,505 to 44,146, and the pupils from 991,099 to 960,865. Various causes are assigned for these changes in connection with the vicissitudes of season, which are held largely to account for the loss of 334 schools in Orissa; but the case of Chittagong, where 555 schools of this description have disappeared from the list, is special and is attributed to inaccurate classification. These figures are important enough to affect the total figures of the whole province, and have been referred to in a preceding paragraph. Where the number of schools has fallen off in consequence of the frequent and harassing delay in the payment by District Boards of the sums earned by gurus at the examinations, there should be no difficulty in rectifying this mismanagement. The expenditure on lower primary schools for native boys from all sources amounted to Rs. 20,13,050, of which the public funds contributed Rs. 3,81,377. The people therefore bear more than four-fifths of the total cost of the primary pathsalas. The falling off in the lower primary schools from 7,467 to 6,784 successful schools, and from 20,617 to 17,614 successful pupils, is ascribed to several reasons. The Director appears to be disposed to regard the constant tendency to raise the standard of examination, in Bengal proper at any rate, as the real cause, and makes a suggestion for the preparation of a common set of question papers to be distributed to all the examination centres in a division or circle. The idea is worth considering; but the Lieutenant-Governor apprehends that, having regard to the difficulty of keeping examination questions secret, it would hardly prove feasible. His Honour has recently had occasion to press upon a District Board the advisability of adhering to the Government policy of replacing a system of stipends by one of rewards for the encouragement of primary education. He has recorded his opinion that the system of payment-by-results is the best on account of its cheapness, as setting free money by which the education of the masses may be reached. But at the same time he recognises the value both of stipends as fostering the stability of schools, and of stipendiary schools, both upper and lower primary, as being the best of the class and serving to keep up the standard of primary education. While, therefore, the main policy of Government must be maintained, in favour of replacing stipends by payments-by-results, His Honour is not prepared, while the primary grant remains inexpansive, to insist on the immediate distribution of the available money over a larger surface, merely for the sake of increasing the numbers nominally receiving some kind of instruction. He regards the preservation of the standard which has been attained by the primary schools as a principle of great importance.

Special instruction.

10. There are 242 training schools for teachers, *i.e.*, masters, mistresses, and gurus, with 1,993 persons under instruction. It is satisfactory to find that in general those who pass out of our training schools are sought after as teachers, and seldom find difficulty in obtaining employment. The Director has rightly instructed the Inspector of the Behar Circle to challenge any appointment made by a District Board that he finds open to objection on the ground of a passed pupil of the Patna training school being overlooked for an outsider.

The other class of schools of special instruction includes the institutions for professional, technical, art, and industrial education, and schools of a special character. The statistics relating to their numbers and cost are given in the following form:—

	Number of institutions.	Number of pupils on the rolls on 31st March 1890.	Average monthly roll number.	Expenditure. From public funds. From Provincial revenues.	Expenditure. From public funds. From District and Municipal funds.	Expenditure. From Private funds.	Expenditure. Total.	Average annual cost per pupil. Cost to public funds.	Average annual cost per pupil. Total cost.
I.—Law.				Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.
Government Law Schools	6	118	137	...	...	8,719	8,719	...	63 10 3
Unaided Law Schools	4	794	726	...	...	22,186	22,186	...	30 8 11
Total ...	10	912	863	...	...	30,905	30,905	...	35 12 11
II.—Medicine.									
Calcutta Medical College	1	149	196	1,90,851	...	8,382	1,99,203	963 14 3	1,006 1 6
Government Medical Schools	4	639	599	72,965	...	17,242	90,207	122 0 2	150 13 6
Unaided Medical Schools	2	238	235	...	...	5,911	5,911	..	25 2 5
Total ...	7	1,026	1,031	2,63,816	...	31,505	2,95,321	255 14 1	286 7
III.—Engineering.									
Civil Engineering College, Seebpore ...	1	265	221	65,096	...	9,337	74,433	294 8 9	336 12 9
Government Survey Schools	3	387	392	7,497	...	4,777	12,274	19 3 0	31 4 11
Total ...	4	652	613	72,593	...	14,114	86,707	118 6 9	141 7 1
IV.—Art and Industry.									
Government School of Art	1	178	171	25,662	...	3,905	29,567	149 13 4	172 14 6
Ditto Industrial Schools	5	89	87	1,632	...	1,683	3,315	44 1 8	89 9 6
Board Industrial School	1	30	27	...	721	471	1,192	...	44 2 4
Aided Industrial Schools	7	382	286	1,465	508	2,792	5,765	5 1 11	20 2 6
Unaided ditto	4	166	134	...	...	538	538	...	4 0 2
Total ...	18	795	655	28,759	1,229	10,389	40,377	43 14 6	61 10 3
V.—Other Schools of Special Instruction.									
Government Schools	1	54	42	4,167	...	...	4,167	99 3 5	99 3 5
Aided Schools	7	307	234	690	509	2,973	4,172	3 15 3	7 13 3
Unaided Schools	7	250	220	...	...	936	936	...	4 4 9
Total ...	15	611	496	4,857	509	3,909	9,275	9 12 8	18 11 3
Grand Total ...	54	3,986	3,658	3,70,025	1,738	90,922	4,62,685	...	...

There is no object in striking an average of the cost per pupil at a number of schools so varied in character and status.

The variations in the numbers of students following the different professions will appear from these figures :—

Years.	Law.	Medicine.	Engineering.	Arts and industry.	Other special schools.	Total.
1888-89	935	999	518	651	172	3,275
1889-90	912	1,016	652	795	611	3,986

It is a hopeful sign if these figures may be depended upon, as they presumably can be, as indicating that a fair proportion of the youth of Bengal are seeking to devote their talents to professions comparatively new to them. The attendance at the Seebpore Civil Engineering College, 265, was the largest yet recorded. The Lieutenant-Governor observes the remark quoted by the Director that insufficient opportunities are afforded to the students of acquiring familiarity with practical work. He concurs in the necessity of recognising more fully the educational purpose of the workshops, and trusts that their requirements may be met, so that the Seebpore College may become, as it now is to a great extent, the centre of true technical education in Bengal. The Government School of Art continues to attract students, 178 having attended it as compared with 158 and 172 in the last two years. The need of a new building for the accommodation of the school and the attached Art Gallery in place of the dilapidated and altogether unsuitable houses now rented for the purpose has been recognised by Government as a matter of pressing urgency.

Towards the end of the official year the valuable report submitted by Mr. E. W. Collin, c.s., on the existing arts and industries in Bengal, in connec-

tion with technical education, came before Government. A number of his suggestions have been under consideration, and the Lieutenant-Governor trusts that in due course some practical measures may be selected for adoption.

Female education.

11. The attendance and expenditure in schools for native girls are shown in the following statement, in which the total figures for the previous two years are given for comparison:—

Class of schools.	Number of schools.	Number of pupils on the rolls on 31st March 1890.	Average number on the rolls monthly.	Average daily attendance.	Expenditure. From public funds. Provincial Revenues.	From public funds. District Funds.	From public funds. Municipal Funds.	From private funds. Fees.	From private funds. Other sources.	Total.
					Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Managed by Government ...		235	202	181	17,682	.....	.....	5,761	628	24,071
Ditto by District or Municipal Boards	5	223	208	184	143	.....	1,140	.....	55	1,338
Aided by Government or by District or Municipal Boards	1,913	40,614	37,080	28,507	60,974	23,213	8,019	17,166	1,68,518	2,81,887
Unaided	233	4,618	4,407	3,264	...	...	.....	938	18,725	19,663
Total ...	2,153	45,690	41,897	32,086	87,799	23,213	9,159	23,864	1,88,924	3,26,959
For 1889-90	.....	.....	.....	.....	1,20,171			2,06,788		
Figures for 1887-88	2,247	46,038	.....	.....	1,17,214			1,90,659		3,07,873
Do. for 1888-89	2,302	47,888	.....	.....	1,21,106			1,88,915		3,10,021

The number of girls' schools has declined from 2,302 to 2,153, and their pupils from 47,888 to 45,690. These figures are the lowest for the three years under examination. The number of girls reading in boys' schools, which had fallen from 37,785 to 35,079, has again decreased to 32,673. The net result therefore is a loss of 149 schools and 4,604 pupils. Greater stringency has apparently been exercised in the administration of the rules for rewards and in the realization of fees. Two young native ladies were admitted to the degree of Bachelor of Medicine, and another passed the Preliminary Scientific L.M.S. examination. Eleven young ladies of the certificate class of the Medical College also obtained the College license to practice medicine and surgery: eleven more were in the certificate class at the close of the session. There were 22 female students in the Campbell Medical School and five in the Cuttack Medical School. From the Bethune College three native candidates out of four passed the First Arts Examination, and all three candidates at the B.A. Examination passed. The second examination for the award under the new standards of the special girls' scholarships sanctioned for Calcutta and the neighbourhood was held during the year. As the extension of these standards to the mofussil has been sanctioned, they would be very widely adopted, it is said, if it could be found possible to create a certain number of special scholarships for girls in each district: at present they have to compete for scholarships on equal terms with the boys at the primary scholarship examinations.

Education of Europeans.

12. The statistics of European education at the end of the last three official years may be exhibited as follows:—

	1887-88	1888-89.	1889-90.
Schools	72	71	68
Pupils	6,541	6,682	6,710

In the last year the number of boys increased by 40, while there were 12 girls fewer under education. The boarding school at Kurseong is still the only Government school in the province. Out of the 6,710 scholars, 3,383 were in schools under Roman Catholic management and 1,646 under the Church of England. The total cost of European education in Bengal was Rs. 6,50,812, of which Government paid Rs. 1,72,168. Several important changes in the Code came into force during the year. A set of inter-school transfer rules was introduced: they have been very beneficial in preventing capricious transfers, and have improved the financial condition of the schools by compelling parents to pay the schooling fees. Provision was also made for the substitution of fixed grants in place of payment by results in selected schools. The imposition of fines for uncorrected errors in the keeping of attendance registers was also sanctioned. The recognition of the high school examination by the University

has not induced any of the boys' schools to substitute this examination for the Entrance Examination; the reason is said to be that no scholarships are awarded on the result. The establishment of scholarships for the high school examination has been proposed.

Muhammadan Education.

13. The total number of Muhammadan pupils again rose from 423,564 to 436,653, and the percentage on the total number of pupils from 28·5 to 29·06, the proportion of Muhammadans to the whole population being 31·5 per cent. This increase was altogether due to a rise of 22,024 pupils in private institutions teaching the Koran only. In public institutions the number of Muhammadan pupils decreased by 10,624, the loss of Muhammadan pupils in lower primary schools being 14,889. As already explained, the large increase in the number of Koran schools, and the corresponding decrease in lower primary schools, were largely due to a change of classification in parts of Eastern Bengal. The number of Muhammadan college students fell from 240 to 179, and percentages show that candidates of this creed suffered at the Entrance Examination of 1889 more severely than others. At the Entrance Examination of 1890 the successful candidates increased from 54 to 125. The Lieutenant-Governor observes with great satisfaction that, in spite of a temporary decline in the colleges, the appreciation of Muhammadans for English education continues to grow steadily and even rapidly. The first reports furnished by the recently appointed Assistant Inspectors for the supervision of Muhammadan education in Eastern Bengal and in Behar have been received, and show that the special requirements and difficulties of this branch of the community are now receiving and will receive adequate attention. The Director has, by giving a *resumé* of the facts, confined himself within the proper limits of an annual report, and the Lieutenant-Governor will await any definite suggestions for action which he may desire to offer. The annual income of the educational portion of the Mohsin Fund continues to be about Rs. 63,100, and the actual expenditure debited to this account is stated at Rs. 61,067. The question of the redistribution of the grants from this fund may be considered with any other points which the Assistant Inspectors may raise. The comparative success of the Muhammadans in the University examinations in the last two years is shown by the following figures :—

	M.A.	B.A.	F.A.	Entrance.
1888-89	1	18	21	54
1889-90	3	21	57	125

There was also a large increase in the number of middle and upper primary examination certificates gained by Muhammadan students, though somewhat fewer passed at the lower primary examination. The total number of pupils at the madrassas under Government management remained exactly the same as in the preceding year, viz. 1,456, but the total expenditure rose from Rs. 58,865 to Rs. 61,760, the increase being nearly all at the cost of Government. Sir Steuart Bayley notices with pleasure the excellent report of the discipline and tone of the Nawab of Moorshedabad's Madrassa with its 63 pupils.

Education of aborigines and indigenous education.

14. The number of pupils from among the aboriginal races rose from 27,246 to 29,749, *i.e.* by 2,233. This is more than a recovery of the loss recorded in the last year's report. This increase was shared by most of the tracts of country inhabited by these races. The greatest gain of 1,559 pupils was in Chota Nagpore, of whom 1,390 were non-Christians and 169 Christians. The pupils in the Missionary schools in that division increased from 3,127 to 3,582, and the expenditure from Rs. 38,703 to Rs. 39,011, of which Government contributed less than one-fifth. No aboriginal pupil passed any University Examination as in the previous year, but 427 passed the departmental examinations. Of these, 367 succeeded in the lower primary scholarship examination (a falling off from the 378 last year) and 36 (as compared to 15) in the upper primary scholarship examination.

The development of indigenous institutions during a triennial period is apparent from the subjoined figures :—

	1887-88.	1888-89.	1889-90.
Schools	10,048	11,709	13,867
Pupils	96,721	117,284	139,603

This is a remarkable and continuous rise. Analysing the figures, it appears that there was a considerable decrease in advanced Arabic or Persian schools, and a gain in Sanskrit tols. There was a very large increase in the number of elementary pathsalas and of Koran schools, as already noticed. The Assistant Inspector's observations on the latter and the maktabs are noted, but call for no immediate orders.

15. The Lieutenant-Governor has had the pleasure annually of acknowledging the services rendered to Government by the Director in his successful administration of the Department of Public Instruction, and the merits of the reports submitted by him and Mr. Tawney. The record of the year under review fully maintains the Director's high reputation. Sir Steuart Bayley desires to take this opportunity, the last of which he will be able to avail himself, to offer his cordial thanks to Sir A. Croft, Mr. Tawney, Mr. Bellett, Mr. Nash, Rai Radhika Prasanna Mookerjee, Bahadur, Baboo Brahmo Mohun Mullick, Rai Dinanath Sen, and the many other excellent officers of the Department employed in the direct work of instruction as Principals and Professors of Colleges, for the valuable advice and the loyal co-operation which he has always received from them.

By order of the Lieutenant-Governor of Bengal.

C. E. BUCKLAND,

Offg. Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 25th October 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	BURDWAN DIVS.		
1	Burdwan Oct. 25, '90	Nil	Weather—cold in the morning. Prospects of *amun* and sugarcane good. Prices of common rice :—
	Ranigunge ...	1·28	
			Srs. Ch.
			Burdwan 16 0
			Culna 15 0
			Cutwa ... ... 14 15 } per rupee.
			Ranigunge 17 0
2	Bankoora ,, 25, '90	Nil	Weather—seasonable. Prospects of *amun* favourable. Sowing of *rubbi* commenced. Price of rice stationary.
3	Birbhum ,, 25, '90	0·49	Cold season has set in. Crops excellent. Price of rice from 17 to 19 seers per rupee.
	Rampore Haut ...	0·06	
4	Midnapur ,, 25, '90	Nil	Weather—cool and bright. Transplanted paddy, indigo, and sugarcane doing well. Prospects in Contai fair except in submerged tracts. Prices of common rice :—
			Srs.
			Sudder 15
			Tumlook ... ... 16 } per rupee.
			Ghatal 16
			Contai 18
5	Hooghly ,, 25, '90	0·07	Weather—settling down. Prospects of paddy crop very favourable, but peas and potatoes have suffered here and there from the late rain. Prices of rice :—
	Serampore ...	3·91	
	Jehanabad ...	0·15	
			Srs.
			Sudder 14
			Serampore ... ... 14 } per rupee.
			Jehanabad 16
	Howrah ,, 25, '90	0·11	Weather—varying. Prospects of *amun* crop favourable. Common rice selling at 14 seers per rupee.
	Uluberiah ...	0·02	
	Central Districts.		
	PRESIDENCY DIVS.		
6	24-Perghs. Oct. 28, '90	1·51	Weather—seasonable. Prospects of standing crops good except in the small flooded tracts of the Bussirhat subdivision. Ploughing for winter crops going on. Common rice sells at from 13 to 15 seers per rupee.
7	Nuddea ,, 25, '90	0·12	Weather—clear and cool. *Amun* rice and sugarcane on high lands doing well. Sowing of winter crops going on. Price of rice much as usual.
	Kushtea ...	1·95	
	Chuadanga ...	1·35	
	Ranaghat ...	1·89	
8	Khoolna ,, 25, '90	1·11	Weather—seasonable. On 22nd afternoon there was a strong wind, damaging many houses and uprooting trees, &c. Prospects of *amun* crop good in Sudder and Bagirhat subdivisions, but not so in Satkhira subdivision.
	Bagirhat ...	2·52	
	Satkhira ...	2·36	
9	Jessore ,, 25, '90	2·37	Weather—rainy in the beginning of the week ; latterly fair. Sowing of cold-weather crops stopped for rain. Price of rice rose in Narail.
	Jhenidah	1·83	
	Magura ...	1·64	
	Narail ...	7·6	
	Bongong ...	0·70	
10	Moorshedabad ,, 25, '90	Nil	Weather—getting cool. *Amun* doing well. Prospects favourable. About 12,000 bighas of paddy land was submerged by the overflow of the Brahmini river, and the damage estimated to be about 4 annas, as the water remained for two or three days. *Rubbi* being sown. Prospects of *kalai* good. Agricultural loans and charitable relief still being distributed.
	RAJSHAHYE DIVS.		
11	Dinagepur ,, 25, '90	Nil	Weather—seasonable. Prospects of crops good. Price of rice stationary.
	Thakurgaon ...	0·05	
12	Rajshahye ,, 25, '90	Figures not given.	Weather—fair, with clouds here and there and drizzling rainfall on 23rd. Hot days and cool mornings. Condition of *haimanti* paddy good. Preparation of land for sowing of winter crops going on. Steeping of jute nearly completed.
	Nattore ...	3·89	
	Nowgong ...	0·06	
13	Rungpur ,, 25, '90	Nil	Weather—fine, clear and hot; cool at night. Prospects of *amun* continue good. Mustard is being sown in some places. Sugarcane is being cut. Prices high.
	Nilphamari ...	1·82	
	Gaibanda ...	3·40	
	Kurigram ...	0·03	
14	Bogra ,, 25, '90	0·38	Weather—cloudy and showery in the middle of the week; now fine, with northerly breeze. All standing crops promise well after allowing for the damage caused by floods, as previously reported. Of *amun* paddy 13 annas outturn is expected. Preparations for winter and spring crops are going on well. Common rice is selling at 18 seers a rupee.
	Sherpur ..	0·48	
15	Pubna ,, 25, '90	0·45	Weather—cool and bright. Prospects of *amun* continue good. *Rubbi* sowings damaged by the late heavy rain. Prices as before.
16	Darjeeling ,, 25, '90	0·12	Weather—very fine. Prospects of crops good.
17	Jalpigoree ,, 25, '90	Nil	Weather—seasonable. *Haimanti* rice expected to yield good outturn. Harvesting of jute continues. Common rice selling at 14 seers per rupee at the Sudder station.

No.	District and date of return.	Rainfall at reporting Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca Oct. 25, '90	2·90	Weather—cloudy and rainy. Harvesting of jute completed. *Amun* paddy thriving. *Maskalai* being sown. Cultivation for mustard and pulses going on. Common rice sold at from 12 to 15 seers per rupee.
19	Furreedpur „ 25, '90	3·47	Weather—foul and rainy during most part of the week. Standing crops fair. Sowing of winter crops in progress. Common rice selling at 13 seers per rupee in Goalundo and Sudder subdivisions.
20	Backergunge „ 25, '90	2·19	Weather—seasonable. State and prospects of crops good. Common rice selling at about 13 seers per rupee.
21	Mymensingh „ 25, '90	3·79	Rain every day. Prospects of crops good. Common rice selling at 12½ seers per rupee.
Chittagong Divn. 22	Chittagong „ 28, '90	1·13	Weather—seasonable. Outturn of *aus* twelve annas. State of *amun* promising. Prices stationary.
23	Noakholly „ 25, '90	4·18	Weather—unseasonable: cloudy and rainy. The late rain has done good to the *amun* plants. Prospects of crops good.
24	Tipperah „ 25, '90	2·69	Weather—rainy and cloudy. *Amun* paddy prospering. Jute cutting over. Price of rice stationary.
25	Chittagong Hill Tracts. „ 23, '90	0·44	Weather—hot during day. Sky cloudy almost throughout the week. Rainy on the 22nd and 23rd. Gathering of *jum* crops, except cotton and yam, nearly over. Cotton here and there ripening, but generally in flower. Prospects of *amun* crop and sugarcane good. Ploughing of lands for mustard and vegetables is being carried on. Common rice selling at 11 seers 6 chittacks per rupee.
BEHAR.	Hill Tipperah ...	....	Report not received.
Patna Divn. 26	Patna „ 25, '90	Nil	Weather—hot; cool at night. Paddy looks very well. Sowing of *rabbi* crops being pushed on. In some places *rabbi* sown and germinated. Poppy field also being prepared and will be sown shortly. Prospects of other crops on the ground favourable. Prices of food-grains stationary.
	Barh ...	0·15	
27	Gya „ 25, '90	Nil	Weather—clear days and cold nights. Prospects of paddy and other crops favourable. Sowing of *rabbi* going on. Prices of food-grains stationary.
28	Shahabad „ 25, '90	0·6	Weather—cooler. Paddy good. Ploughing for *rabbi* proceeding. Prices stationary.
	Buxar ...	0·45	
29	Durbhunga „ 25, '90	Nil	Weather—bright and cold. Rice crop looks very promising and in some places coming into ear. *Rabbi* sowings and tobacco transplantation being pushed on. Prices stationary.
30	Muzufferpur „ 25, '90	Nil	Weather—fine. Paddy prospects good. Sowing of *rabbi* stopped owing to
	Hajipore ...	0·23	rain of last week, but it will commence again almost immediately. Prices stationary.
31	Sarun „ 25, '90	Nil	Weather—fine and clear. Strong west wind and colder weather for the last two days. *Rabbi* and rice prospects excellent. Prices slightly falling.
32	Chumparun „ 25, '90	0·28	Weather—days hot, nights cool. Prospects of paddy very good. Preparation
	Bettiah ...	0·05	of land for winter crops stopped by the continuous rain of the last week.
Bhagulpore Divn. 33	Monghyr „ 25, '90	Nil	Weather—seasonable; getting cool gradually. State and prospects of all standing crops good. *Rabbi* crops being sown everywhere.
	Begusarai ...	0·04	
34	Bhagulpore „ 25, '90	Nil	Weather—clear; mornings and evenings cool; heavy dews at night. Winter rice
	Banka ...	0·02	promising. *Kurthi, rahar*, and sugarcane doing well. Lands being prepared
	Mudhepura ...	0·09	for wheat and other *rabbi* crops.
35	Purneah „ 25, '90	Nil	Weather—seasonable. Prospects of crops good. *Rabbi* crops still being sown.
36	Maldah „ 25, '90	Nil	Weather—seasonable. Prospects of all standing crops continue favourable.
	Shibgunge ...	0·35	*Kalai* sowings nearly completed. Preparation of lands for *rabbi* crops
	Gajole ...	0·19	going on. Common rice selling at from 13 to 16 seers per rupee.
37	Sonthal Pergha „ 25, '90	Nil	Weather—getting cool and pleasant. Prospects of rice crop excellent; an outturn above the average expected. Cutting of early rice commenced.

	No.	District and date of return.		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.					
Orissa Divn.	38	Cuttack	Oct. 25, '90	Nil	Weather—seasonable. General prospects of crops continue good.
	39	Pooree	„ 23, '90	0·83	Weather—seasonable and settled. *Sarad* crop in ear. *Bauli* and *mandia* being harvested. Lands being ploughed for *rubbi* crops. Price of common rice stationary.
	40	Balasore	„ 25, '90	Nil	Weather—cooler. Condition of standing crops generally good.
CHOTA NAGPORE.					
		South-West Frontier Agency.			
Chota Nagpore Divn.	41	Hazaribagh	Oct. 25, '90	Nil	Weather—seasonable. Winter rice and sugarcane doing well. *Rubbi* crops being sown. Prices more or less stationary.
	42	Lohardugga	„ 25, '90	Nil	Weather—seasonable. Harvesting of *gora* rice nearly finished. Prospect of winter rice continues favourable. No material change in prices.
	43	Singbhoom	„ 25, '90	Nil	Weather—seasonable; cloudy but clear again. *Beera* or highland paddy being reaped and *doin* or lowland paddy doing well. *Surgooja* being sown. Yield of *tussar* crop estimated at about 8 to 10 annas. Prices steady.
	44	Manbhoom	„ 25, '90	Nil	Weather—cold and dry. Prospects of crops very favourable so far.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 28th October 1890.

C. E. BUCKLAND,
Offg. Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

he week ending Friday, the 24th of October 1890.

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	29·939	29·951	—	?	161	88·2	22nd Oct.	70·6	22nd Oct.	86·5	74·7	80·6	—	77·4
		Gopalpore	29·938	29·950	+·036	NNW	195	89·7	23rd ,,	69·9	23rd ,,	85·6	71·5	80·1	—1·7	80·1
		False Point	29·924	29·946	—·001	NW & NNW.	147	86·4	24th ,,	70·1	22nd ,,	84·5	73·5	78·5	—2·3	78·0
	Cuttack	Cuttack	29·881	29·964	+·021	Westerly	29	89·4	20th ,,	70·3	23rd ,,	88·6	73·2	80·9	—1·0	77·6
	Balasore	Balasore	29·911	29·971	+·021	NNW & Calm	161	86·4	18 to 22 ,,	71·8	23rd ,,	86·0	73·4	79·7	—0·1	77·1
South-West Bengal.	South-West Midnapore South 24-Parganas	Saugor Island	29·919	29 946	+·002	North-Westerly	226	85·2	24th ,,	73·0	21st ,,	83 6	75 8	79·7	—1·6	78·8
	Midnapore	Midnapore	29·800	29·954	—·006	N	216	89·3	24th ,,	72 2	22 & 23 ,,	87·2	73·0	80·1	+0·2	78·1
	24-Parganahs Howrah Hooghly	Calcutta	29·925	29·947	+·003	Calm	55	86·0	19th ,,	73 2	21st ,,	83·5	73·4	78·5	—1·6	77·8
	Burdwan	Burdwan	29·866	29·969	+·020	Calm & N	44	87·6	24th ,,	73·4	21st ,,	84·9	74 8	79·9	—1·3	77·8
	Bankoora	Bankoora	29·840	29·948	+·004	N	32	87·6	24th ,,	71·1	22nd ,,	86·0	72·4	79·2	—1·8	77·4
	Beerbhoom West Burdwan	Ranegunge	29·837	29·978	+·033	NNW	47	86·5	24th ,,	70·4	22nd ,,	84·6	71·7	78·2	—2·8	78·4
	Moorshedabad	Berhampore	29·882	29·950	+ 001	NNW	107	85·6	20, 21 & 24 Oct.	72·3	20 & 21 ,,	84·3	73·9	79·6	—2·0	77·3
	Nuddea	Krishnaghur	29·897	29·946	—·011	ENE	86	85·4	24th ,,	71·3	24th ,,	84·6	72·9	78·8	—1·5	78·4
	Jessore Khoolna	Jessore	29·909	29 943	—·004	North-Westerly	90	86·7	18th ,,	73·9	21 & 23 ,,	84·7	74·6	79·7	—1·7	77 6
East Bengal.	Chittagong	Chittagong	29·863	29·957	+·006	South-Easterly	53	87·7	19, 20 & 22 Oct.	71·7	20th ,,	85·3	74·5*	79 9*	+0·7	77·1
	Chittagong Hill Tracts	Demagiri						Observations not received.								
	Backergunge	Barrisal	29·920	29·932	+·015	North-Easterly	82	86·8	18, 19 Oct.	71·9	21st ,,	83·7	74·0	78·9	—0·8	76·1
	Noakholly	Noakholly	29·909	29·953	+·035	S & NE	161	86·0	18 to 20 ,,	71·8	20th ,,	84·6	73·8	79·2	—0·2	78·1
	Furreedpore	Furreedpore	29·904	29·944	0	Calm	88	85·5	19th ,,	72·4	21st ,,	83·7	73·7	78·2	—1·4	76·1
	Dacca	Dacca	29 906	29·929	—·008	Variable	111	88·1	18th ,,	69·7	21st ,,	84·7	73·3	78·0	—2·1	77·1
	Commillah	Commillah	29·912†	29·943†	+·018	North-Easterly	67	87·4	19 & 22 ,,	70·3	21st ,,	84·7	72·5	78·6	—2·8	76·4
	Mymensingh	Mymensingh	29·884	29·943	+·012	North-Easterly	68	86·2	22nd ,,	69 6	21st ,,	82·8	72·0	77·4	—2 6	76·1
North Bengal.	Bogra	Bogra	29·868	29·932	+·014	Calm	45	84·3	20th ,,	70·1	21st ,,	82·7	72·5	77·6	—3·0	76·1
	Pubna	Serajgunge	29·893	29·940	—·001	North-Easterly	45	85·7	19th ,,	69·2	21st ,,	83·2	73·1	77·7	—1·6	76·6
	Rajshahye	Rampore Beauleah	29·875	29·946	+·018	Variable	46	85·3	20th ,,	71·7	21st ,,	83 6	73·2	78·4	—0·6	77·4
	Maldah	Maldah	29·877	29·961	+·020	NW	59	85·8	20th ,,	69·7	19th ,,	84 5	71·5	77·9	—3·2	77·1
	Dinagepore	Dinagepore	29·837	29·960	+·007	North-Westerly	48	86·1	24th ,,	68·1	19th ,,	84·5	70 5	77·5	—1·6	75·1
	Rungpore	Rungpore	29·843	29·970	+·019	Variable	57	86 8	24th ,,	69·2	19th ,,	84·4	71·3	77·9	—0·7	75 6
North Bengal.	Julpigoree Cooch Behar	Julpigoree	29·865	29·960	+·000	?	?	85·4	22nd ,,	63 6	18th ,,	83·8	66·2	75·0	—2·9	73·1
	Darjeeling Hill Tracts	Darjeeling	29·863	—	+·004	ESE	75	64·1	22nd ,,	46·2	20th ,,	60·8	48·5	54·4	+0·5	56·6
	Purneah North Bhagulpore	Purneah	29·840	29·960	+·029	Variable	40	87·7	22nd ,,	67·5	19 to 21 ,,	84 1	69·9	76·5	—2·0	75·1
	Mozufferpore	Mozufferpore	29·774	29·958	—	Calm	35	85·8	24th ,,	73·2	18th ,,	85·8	74·5	79·1	—	76·1
	Durbhunga	Durbhunga	29·795	29·967	+·013	Variable	28	86·9	23rd ,,	67·0	18th ,,	84·3	69·1	76·7	—2·6	76·1
	Chumparun	Motihari	29·770	29·984	+·035	Variable	58	87·2	24th ,,	66·8	24th ,,	84·6	68·2	76·4	—0·5	75·1
	Saruu	Chupra	29·778	29·976	+·036	Westerly	41	86·8	24th ,,	71·7	18 & 20 ,,	84·8	72·3	78·6	0	76·1
South Bengal.	Shahabad	Dehree	29·615	29·978	+·018	SSW	21	86 8	21, 24 ,,	65·0	24th ,,	85·7	69·4	77·1	—0·4	75·1
		Buxar	29·730	29·978	+·027	Westerly	32	86·9	24th ,,	68·8	18, 24 ,,	84·6	70·2	77·4	—1·6	76·1
		Arrah	29·774	29·976	+·034	SW	6	88·4	24th ,,	67·7	24th ,,	85·7	69·5	77·6	—0·5	76·1
	Gya	Gya	29·598	29·966	+·032	S	109	87·4	24th ,,	66·8	22nd ,,	85·9	69·4	77·7	—1·8	75·1
	Patna	Bankipore	29 758	29·976	+·030	Southerly	24	85·4	23 & 24 ,,	69·2	18 & 19 ,,	84 0	70·5	77·2	—2·6	77·1
	South Bhagulpore Monghyr	Bhagulpore	29·794	29·950	+·026	Calm	5	86·2	24th ,,	67·5	18 & 21 ,,	83·8	69·4	76·6	—1·8	76·1
Chutia Nagpur.	Sonthal Pergunnahs	Doomka	29·452	29·963	+·018	NW	50	85·6	24th ,,	66·6	21st ,,	84·5	69 5	77·0	—1·4	75·1
	Hazaribagh	Hazaribagh	27·942	29 989	+·011	Calm	70	81·9	24th ,,	62·3	22nd ,,	80·2	63·4	71·8	—2·7	70·1
	Lohardugga Manbhoom	Ranchee	27·821	29 983	+·015	Calm	92	81·5	20 & 24 ,,	59·9	19 & 21 ,,	80·1	61·8	70·9	—3·0	71·1
	Singbhoom	Chyebassa	29·189	29·969	+·029	Calm	25	87·9	18th ,,	65·8	21 & 23 ,,	86·2	67·5	76·9	—2·3	75·1
Assam.		Sibsagar	29·656	29·999	+·018	NE	.	85·1	24th ,,	66·9	22nd ,,	83·8	70 4	77·1	0	75·1
	Assam	Dhubri	29·839	29·960	+·005	North-Easterly	105	82 8	18 & 22 ,,	68·4	20th ,,	82·0	70·9†	76·6	—2·6	75·1
		Silchar	29·844	29·953	+·004	Calm		93·0	22nd ,,	71·8	20th ,,	87·0	73·2	80·1	—0·1	77·1

Meteorological Division.	District.	Representative station.	DISTRICT OBSERVATIONS. Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Normal mean.	Rainfall. Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 15th May 1890. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.
Orissa.	Pooree	Pooree	8·2	0·33	0·51	1·90	5·40	6·70	+1·70	62·06	50·81	+11·25	1·3	1·9
		Gopalpore	0·2	Nil										
		False Point	4·0	0·75										
	Cuttack	Cuttack	3·4	Nil	0·35	1·28	6·92	4·50	+2·42	60·97	48·55	+12·42	0·4	1·6
	Balasore	Balasore	1·3	Nil	0·08	0·68	8·07	4·34	+3·73	52·19	39·85	+8·34	0·3	1·2
South-West Bengal.	Saugor Island	Saugor Island	7·4	2·19	1·33	1·41	16·35	5·88	+10·47	63·63	59·06	+4·57	2·3	1·4
	Midnapore	Midnapore	2·3	Nil	Nil	0·57	4·60	3·50	+1·10	49·87	49·74	+0·13	0.0	0·9
	24-Parganahs Howrah Hooghly	Calcutta	5·1	1·37	0·51	0·40	7·40	3·41	+3·99	55·19	49·80	+5·39	1·3	1·0
	Burdwan	Burdwan	5·1	Nil	Nil	0·34	4·73	3·21	+1·51	60·89	45·02	+15·87	0·0	1·1
	Bankoora	Bankoora	1·7	Nil	Nil	0·35	5·34	2·91	+2·43	52·01	50·75	+1·26	0·0	1·0
	Beerbhoom West Burdwan	Ranegunge	1·3	1·28	0·44	0·29	7·76	2·99	+4·77	63·33	50·94	+12·39	0·5	0·9
	Moorshedabad	Berhampore	3·0	Nil	0·02	0·30	7·17	3·94	+3·23	59·95	49·35	+10·60	0·3	0·8
	Nuddea	Krishnaghur	5·6	0·09	0·23	0·49	8·74	3·53	+5·22	54·90	47·60	+7·30	1·6	1·1
	Jessore Khoolna	Jessore	6·7	2·73	2·33	0·61	7·85	3·61	+4·24	53·47	51·37	+2·10	2·9	1·2
East Bengal.	Chittagong	Chittagong	6·0	0·85	1·28	0·62	3·72	5·10	—1·38	117·52	108·94	+8·58	3·5	1·5
	Chittagong Hill Tracts	Demagiri				0·72		6·02			76·69			1·2
	Backergunge	Barrisal	5·9	2·58	1·80	0·56	7·67	4·53	+3·14	68·16	73·35	—5·19	2·8	1·3
	Noakholly	Noakholly	1·6	4·27	2·68	0·62	8·50	5 57	+2·93	96·55	102·36	—5·81	3·5	1·4
	Furreedpore	Furreedpore	6·4	3·47	2·98	0·49	7·20	3·82	+3·38	45·09	53·91	—8·82	3·3	1·2
	Dacca	Dacca	8·4	2·60	2·92	0·44	5·15	3·61	+1·54	58·16	57·91	+0·25	4·0	1·1
	Commillah	Commillah	5·0	2·74		0·50		4·34			66·16			1·0
	Mymensingh	Mymensingh	6·7	3·77	2·67	0·67	9·69	4·67	+5·02	70·34	67·38	+8·96	2·8	1 1
North Bengal.	Bogra	Bogra	5·0	0·45	0·22	0·50	11·36	4·08	+7·28	78·58	56·17	+22·41	1·0	0·7
	Pubna	Serajgunge	6·6	0·10	0·32	0·64	5·59	3·93	+1·66	54·34	51·85	+2·49	2·5	0·8
	Rajshahye	Rampore Beauleah	2·6	0·01	0·28	0·20	9·96	3·22	+6·74	74·87	52·16	+22·71	1·3	0·7
	Maldah	Maldah	0·7	Nil	Nil	0·07	7·60	2·88	+4·72	62·12	52·58	+9·54	0·0	0·6
	Dinagepore	Dinagepore	2·1	Nil	0·01	0·11	11·44	3·17	+8·27	81·74	55·73	+26·01	0·2	0·8
	Rungpore	Rungpore	1·1	Nil	0·14	0·25	18·28	4·24	+14·04	106·61	72·43	+34·18	0·5	0·7
North Bengal.	Julpigoree Cooch Behar	Julpigoree	1·3	Nil	0·03	0·35	14·98	4·55	+10·43	154·51	108·40	+46·11	0·2	0·9
	Darjeeling Hill Tracts	Darjeeling	2·3	0·12		0·42	14·03	4·67	+9·36	165·33	117·82	+47·51	1·0	1·1
	Purneah North Bhagulpore	Purneah	1·4	Nil	Nil	0·08	6·23	2·78	+3·45	80·67	57·15	+23·52	0·0	0·4
	Mozufferpore	Mozufferpore	1·0	0·03	0·08	0·13	1·79	2·79	—1·00	52·57	42·26	+10·31	0·3	0·3
	Durbhunga	Durbhunga	1·5	0·02	0·01	0·03	1·74	2·30	—0·56	57·03	43·24	+14·39	0·3	0·3
	Chumparun	Motihari	1·4	0·28	0·16	0·06	5·67	3·33	+2·34	68·47	46·22	+22·25	1·0	0·4
	Saruu	Chupra	0·3	Nil	Nil	0·11	1·48	3·72	—2·24	53·69	41·18	+12·42	0·0	0·4
South Bengal.	Shahabad	Dehree	0·1	Nil										
		Buxar	0·7	0·40	0·07	0·35	1·34	2·78	—1·44	49·59	38·52	+11·07	0·4	0·4
		Arrah	1·0	0·06										
	Gya	Gya	1·7	Nil	0·01	0·15	0·43	2·44	—2·01	56·93	40·17	+16·76	0·2	0·4
	Patna	Bankipore	1·3	Nil	Nil	0·16	1·34	2·50	—1·16	48·10	39·67	+8·43	0·0	0·5
	South Bhagulpore Monghyr	Bhagulpore	1·3	Nil	Nil	0·18	3·17	2·43	+0·74	53·25	41·66	+10·59	0·0	0·8
Chutia Nagpur.	Sonthal Pergunnahs	Doomka	0	Nil	0·04	0·27	10·19	3·11	+7·08	63·25	49·52	+13·73	0·2	0·5
	Hazaribagh	Hazaribagh	1·9	Nil	Nil	0·15		2·61			68·68		0·0	0·5
	Lohardugga Manbhoom	Ranchi	1·0	Nil	Nil Nil	0·35 0·33	1·63 3·51	2·27 2·62	—0·64 +0·49	47·01 41·43	46·75 45·65	+0·26 —4·22	0·0 0·0	0·8 0·8
	Singbhoom	Chyebassa	2·3	Nil	Nil	0·47	1·73	2·24	—0·51	33·95	49·71	—15·77	0·0	1·0
Assam.		Sibsagar	5·9	0·14										
	Assam	Dhubri	5·0	0·10										
		Silchar	8·9	1·03										

* Mean of six days.

† Mean of five days.

Explanations.—*Summary.*—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The variations are *negatives* when the mean for the week is less than the corresponding normal mean, and *positives* when greater.

The *Nebulosity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers under the head District observations of rainfall the normal means are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past ten years. The means of the district are the numerical average of the rainfall return received in the districts, *i.e.*, from total rainfall at the subdivisional stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 24th of October 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 18th October.	Sunday, 19th October.	Monday, 20th October.	Tuesday, 21st October.	Wednesday, 22nd October.	Thursday, 23rd October.	Friday, 24th October.	Total. Number rainy days.	Total. Rainfall week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	0·85	0·06	.....	.....	.....	.....	.....	2	0·91	9·56	6·91	66·25	45·0
		Khurdah ...	0·35	.....	.....	.....	.....	.....	.....	1	10·35	7·29	5·76	63·45	52·7
		Sanpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·05	5·46	57·90	44·3
		False Point ...	0·07	0·68	.....	.....	.....	.....	.....	2	0·75	10·68	8·96	63·86	50·8
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	?	?		?
		Satpara ...	.....	.....	.....	0·06	.....	.....	.....	1	0·06	7·87	?	37·99	?
		Pipli ...											?		?
	Cuttack ...	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·88	5·74	59·80	44·8
		Banki ...	1·68	.....	.....	.....	.....	.....	.....	1	1·68	5·85	3·83	62·23	45·3
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·44	4·32	60·10	45·1
		Kendrapara ...	0·06	.....	.....	.....	.....	.....	.....	1	0·06	7·19	5·00	59·44	44·7
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	[6·23	[3·76	58·60	43·9
		Dhurmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11·90	?	53·68	40·1
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·50	?	50·24	?
	Balasore ...	Chandbali ...	0·10	.....	.....	.....	.....	.....	.....	1	0·10	7·96	5·29	51·97	42·8
		Bhadduruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·56	3·86	54·89	40·0
		Soreh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·35	4·17	59·99	45·0
		Balasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·69	5·01	65·29	48·6
		Jellasore ...	0·08	.....	.....	.....	.....	.....	.....	1	0·08	10·36	4·08	64·68	50·1
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·29	3·77	60·16	52·3
South-West Bengal.	Midnapore ...	Contai ...	0·01	.....	.....	0·18	0·18	.....	.....	3	0·37	17·14	6·04	63·81	57·5
		Sangor Island ...	.....	.....	0·02	0·59	1·58	.....	.....	3	2·19	20·28	7·44	66·13	63·4
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·10	[3·25	57·90	49·1
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·72	3·84	47·69	40·1
		Ghatal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·58	3·41	44·61	46·7
		Kukrahaty ...				1·10				1	1·10	10·36	?	50·89	?
		Garbetta ...	.....	0·02	.....	.....	.....	.....	.....	1	0·02	3·56	?	46·23	?
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	1·43	.....	.....	.....	1	1·43	11·65	4·17	61·97	56·1
		Canning Town ...	.....	.....	.....	.....	0·49	0·16	.....	2	0·65	14·03	?	66·89	?
		Alipore Jail ...	.....	.....	.....	1·45	0·04	0·02	.....	3	1·51	8·69	3·44	61·91	53·2
		Barrackpore ...	0·26	.....	.....	.....	.....	.....	.....	1	0·26	8·41	2·89	60·21	53·2
		Dum-Dum ...	.....	.....	.....	0·16	0·46	.....	0·03	3	0·65	13·04	3·50	55·75	47·4
		Baraset ...	.....	.....	.....	0·08	0·93	.....	.....	2	1·01	13·10	3·76	55·77	47·9
		Busseerhat ...	0·05	.....	.....	.....	0·93	.....	.....	2	0·98	10·89	3·54	58·67	52·8
	Howrah ...	Howrah ...	.....	.....	.....	0·08	0·02	0·01	.....	3	0·11	7·06	3·36	51·34	48·8
		Mohsenka (*Colobertah*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·28	3·12	59·37	50·4
	Hooghly ...	Serampore ...	0·39	.....	.....	.....	0·04	.....	.....	2	0·43	8·41	3·36	54·27	46·2
		Hooghly ...	0·03	.....	.....	.....	.....	0·04	.....	2	0·07	6·17	3·41	52·95	46·4
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·21	3·07	51·37	43·4
	Burdwan ...	Culna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·97	3·29	54·11	43·6
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·50	3·09	54·97	46·2
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·69	3·24	53·56	46·1
		Kanegegunge ...	.....	1·38	.....	.....	.....	.....	.....	1	1·38	8·83	2·85	60·43	47·9
		Meshur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·38	?	47·80	?
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·76	3·37	57·76	46·8
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·66	2·25	50·95	50·8
		Mallara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·02	2·82	59·23	47·2
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·02	3·23	60·96	54·9
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·74	?	59·97	?
		Kotulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·88	?	66·94	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·30	?	55·11	?
		Gangajalghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·87	?	63·75	?
		Kaipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·13	?	53·29	?
		Vosamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·61	?	52·74	?
	Beerbhoom ...	Sh. Soory ...	.....	0·49	.....	.....	.....	.....	.....	1	0·49	6·36	2·98	61·94	53·2
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·63	3·06	59·15	55·3
		Rampore Haut ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·08	3·08	72·36	50·3
		Bolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·03	[illegible]	56·25	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....			7·11	?	56·45	?
	Nuddea ...	Ranaghat ...	0·13	.....	.....	.....	0·11	.....	.....	2	0·23	7·50	2·98	55·46	45·0
		Kishnaghur ...	0·09	.....	.....	.....	.....	.....	0·03	2	0·12	7·07	3·79	51·45	44·2
		Chooadanga ...	.....	.....	.....	.....	0·50	.....	.....	1	0·50	8·27	3·65	47·68	49·3
		Moherpore ...	.....	.....	.....	.....	.....	.....	0·06	1	0·06	13·25	2·90	58·86	46·1
		Koushies ...	.....	.....	.....	.....	0·06	0·18	.....	2	0·24	6·99	2·99	53·39	52·3
	Khoolna ...	Satkhira ...	.....	.....	.....	.....	0·78	0·82	.....	2	1·60	7·04	3·74	57·19	53·7
		Bagirhat ...	.....	.....	.....	.....	1·02	1·50	.....	2	2·52	6·35	4·37	69·51	59·5
		Khoolna ...	6·13	.....	.....	.....	1·08	0·03	.....	2	1·24	7·16	3·27	63·88	53·5
		Nabipur ...	.....	.....	.....	.....	6·95	.....	.....	1	6·95	15·18	?	75·63	?
		Rampal ...	0·19	.....	.....	.....	1·31	0·78	.....	3	2·28	11·44	?	65·78	?
	Jessore ...	Narail ...	0·96	.....	.....	.....	1·13	6·35	0·06	4	7·60	13·01	2·95	61·45	44·9
		Jessore ...	0·36	.....	.....	.....	0·54	1·79	0·04	4	2·73	9·74	3·39	59·46	52·1
		Jhenidah ...	0·26	.....	.....	.....	0·40	0·33	.....	3	0·98	5·95	3·10	54·16	51·7
		Magoorah ...	0·06	.....	.....	.....	0·43	1·08	0·08	4	1·63	8·19	3·21	45·44	47·7
		Bongong ...	.....	.....	.....	.....	0·45	.....	.....	1	0·45	5·50	3·78	46·66	46·7
	Moorshedabad ...	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·81	3·64	64·09	48·8
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·78	4·15	63·83	50·6
		Lalbagh ...	0·03	.....	.....	.....	.....	.....	.....	1	0·03	7·17	4·27	63·26	49·0
		Asimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·55	4·39	57·97	45·6
		Jungipore ...	.....	.....	.....	.....	.....	0·09	.....	1	0·09	5·48	3·62	51·53	45·1
		Laigola ...	.....	.....	.....	.....	.....	.....	.....	Nil	0·00	9·90	4·19	64·70	50·7
		Jiagunge ...													
		Akhergunj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·28	?	?	?
		Patikbari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·56	?	?	?
East Bengal.	Chittagong ...	Cox's Bazar ...	.....	.....	.....	0·02	0·20	0·26	0·25	4	1·53	2·26	3·36	137·39	132·7
		Chittagong ...	.....	.....	.....	.....	0·20	0·31	0·22	3	0·73	5·38	4·06	106·28	99·6
		Kutubdia ...	.....	1·06									?		?
		Satkanya ...											?		?
	Chittagong Hill Tracts.	Rangmati ...	.....	.....	.....	.....	0·15	0·29	.....	2	0·44	3·05	3·34	68·24	72·2
		Rama ...	.....	.....	.....	1·50							0·29		74·0
	Backergunge ...	Patuakhally ...	.....	.....	.....	.....	0·38	0·20	.....	2	1·08	9·49	4·98	79·95	83·0
		Pirozepore ...	0·35	.....	.....	.....	1·26	0·17	.....	3	1·78	9·07	4·07	82·91	82·2
		Barisal ...	0·28	.....	.....	.....	0·26	1·20	0·08	4	2·82	7·07	3·67	66·75	64·0
		Bhola ...	.....	0·50	.....	.....	1·11	0·55	.....	3	1·66	8·11	4·75	92·98	93·0

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 24th of October 1890 —contd.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 18th October.	Sunday, 19th October.	Monday, 20th October.	Tuesday, 21st October.	Wednesday, 22nd October.	Thursday, 23rd October.	Friday, 24th October.	Total. Number rainy days.	Total. Rainfall week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
East Bengal —contd.		*Gourreddi* ...	.....	.....	.....	.....	1·45	0·06	.....	2	1·51	5·49	?	43·66	?
		Baupbai ...	0·30	.....	.....	.....	1·90	.....	.....	2	2·20	8·94	?	73·26	?
	Noakholly ...	Noakholly ...	.....	.....	.....	.....	2·50	1·53	0·69	3	4·12	10·02	5·71	93·28	103·5
		Fenny ...	.....	0·20	.....	.....	0·48	0·49	0·15	4	1·23	4·93	5·49	[illegible]100·80	101·0
		Harishpore ...											?		?
		Rampany ...	0·20	.....	.....	.....	1·43	0·85	.....	3	2·48	4·80	?	65·28	?
	Furreedpore ...	Madaripore ...	1·13	.....	.....	.....	.....	2·23	0·04	3	3·40	7·71	3·45	40·91	53·8
		Furreedpore ...	.....	.....	.....	0·19	3·05	0·18	.....	3	3·42	7·38	3·78	49·45	56·2
		Goalundo ...	0·42	.....	.....	.....	0·84	1·21	0·14	4	2·11	6·49	4·30	44·90	57·8
	Dacca ...	Munshigunge ...	0·11	.....	.....	.....	0·20	2·70	0·09	4	3·10	4·17	4·61	57·78	57·5
		Dacca ...	0·20	.....	.....	.....	0·16	2·22	0·33	4	2·90	6·02	3·39	54·54	56·2
		Naraingunge ...	0·33	.....	.....	.....	0·19	1·60	0·18	4	2·30	3·26	3·03	59·71	58·5
		Manickgunge ...	0·07	.....	.....	.....	0·10	1·95	0·07	4	2·39	7·14	3·37	59·62	48·4
		Joydebpore ...	0·32	.....	.....	.....	0·09	1·67	0·95	4	3·03	5·48	?	65·39	?
	Hill Tipperah ...	Agartola ...	1·50	.....	.....	.....	0·60	0·46	0·13	4	2·69	7·19	3·50	66·22	58·6
		Comilla ...	0·75	.....	.....	.....	0·78	0·70	0·12	4	2·35	5·07	5·64	56·78	73·2
		Chandpore ...	0·75	.....	.....	.....	0·78	0·70	0·12	4	2·35	5·07	5·64	56·78	73·2
		Brahmunberia ...	1·03	0·10	.....	.....	0·24	2·30	0·45	5	4·12	5·19	4·00	64·96	59·5
		Kamchandra-gore ...	0·87	0·77	.....	.....	0·48	4·58	0·19	5	6·89	8·18	?	75·84	?
		Nasirnagar ...	0·30	.....	.....	.....	.....	.....	0·40	2	0·70	1·80	?	34·81	?
		Daudkandi ...	0·59	.....	.....	.....	.....	1·05	1·03	4	3·49	4·51	?	29·74	?
		Kashe ...	.....	.....	.....	.....	0·53	.....	0·02	2	0·55	0·84	?	51·71	?
		Laksham ...	.....	.....	.....	.....	.....	1·95	0·05	2	2·00	0·25	?	51·71	?
			.....	.....	.....	.....	.....	1·40	.....	1	1·40	3·22	?	68·55	?
	Mymensingh ...	Kishoreegunge ...	.....	.....	.....	.....	.....	0·65	1·25	2	1·90	6·10	4·76	68·87	68·2
		Atia (*Tangail*) ...	0·35	.....	.....	.....	0·52	1·11	.....	3	1·98	8·56	4·35	65·81	54·0
		Mymensingh ...	0·55	.....	.....	.....	.....	0·09	3·15	3	3·79	6·48	4·78	77·10	72·1
		Jamalpore ...	2·12	.....	.....	.....	.....	.....	0·20	2	2·32	10·39	4·25	70·16	63·4
		Netrokona ...	.....	.....	0·75	.....	.....	.....	0·97	3	3·37	10·92	5·16	90·54	79·1
		Subormukhi ...	0·45	.....	.....	.....	.....	.....	1·65	3	2·67	6·96	?	57·95	?
		Durgapore ...	0·49	.....	.....	.....	.....	.....	0·22	3	0·67	5·67	?	11·7	?
		SherporeTown ...	0·19	.....	.....	.....	.....	.....	0·69	2	1·12	12·83	?	?	?
		Bawangani ...	.....	.....	.....	.....	.....	.....	0·14	2	0·33	9·48	?	67·41	?
										Nil	Nil	11·01	?	72·90	?
North Bengal.	Pubna ...	Pubna ...	0·16	.....	.....	.....	0·03	0·16	0·26	4	0·61	4·14	4·18	46·08	53·5
		Serajgunge ...	0·05	.....	.....	.....	.....	0·04	0·02	2	0·10	7·10	3·66	62·06	51·9
	Bogra ...	Sherepore ...	.....	.....	.....	.....	.....	.....	0·11	1	0·11	10·18	3·96	77·27	57·0
		Nowkhilla ...	0·01	.....	.....	.....	.....	0·05	.....	2	0·06	10·18	4·84	68·42	54·9
		Bogra ...	0·15	.....	.....	.....	.....	.....	0·11	2	0·26	12·96	3·28	70·24	59·4
		Panchbibi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·05	4·25	91·40	59·2
	Rajshahye ...	Seemlah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·31	3·84	71·25	51·6
		Vattore ...	0·65	.....	.....	.....	.....	0·04	0·08	3	0·77	9·83	3·90	87·22	53·2
		Naogaon ...	.....	.....	.....	.....	.....	0·00	.....	1	0·06	9·63	2·01	66·15	51·5
		Lalpore ...	0·13	.....	.....	.....	.....	.....	.....	1	0·48	8·66	?	52·38	?
		Manda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·19	?	47·36	?
	Maldah ...	Maldah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·87	3·27	64·02	49·7
		Chanchal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·33	2·49	59·63	53·4
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·53	?	84·49	?
		Sibganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·10	?	62·54	?
	Dinagepore ...	Mohadebpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·78	2·36	80·28	51·9
		Churamon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·77	3·68	92·75	57·3
		Kaigunge ...	.....	.....	.....	.....	.....	.....	.....	1	0·05	14·76	3·50	86·99	61·7
		Dinagepore ...	0·05	.....	.....	.....	.....	.....	.....	Nil	Nil	10·39	3·33	81·01	51·9
		Balorghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	17·31	?	107·04	?
		Thakorgaon ...	.....	.....	.....	.....	.....	.....	.....						
	Rungpore ...	Buswankunge (*Gyabanda*) ...	0·50	.....	.....	.....	.....	.....	.....	1	0·50	20·90	4·41	123·70	61·2
		Rungpore ...	0·04	.....	.....	.....	.....	.....	.....	1	0·04	10·91	4·03	86·52	72·7
		Kurigram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	17·57	4·13	99·59	72·3
		Bagdoora ...								Nil	Nil	15·37	4·30	111·23	83·4
		(*Nilphamari*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	17·78	?	97·62	?
		Ulipore ...	.....	.....	.....	.....	.....	.....	.....						
	Jalpigoree ...	Jalpigoree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	18·29	4·01	156·20	116·0
		Alipore Doar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·27	?	187·47	?
		Fallacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	16·59	?	146·30	?
		Dubigoorie ...								Nil	Nil	13·23	?	115·70	?
		Bhagalpore (*Nayrasatta*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	18·24	4·73	128·95	94·0
	Cooch Behar ...	Dinhatta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·49	4·50	109·37	116·9
		Cooch Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·01	3·69	146·35	101·4
		Mickilgunge ...	.....	.....	.....	.....	.....	.....	.....	1	0·10	14·14	5·97	171·91	117·5
		Mashbhanga ...	0·10	.....	.....	.....	.....	.....	.....	1	0·10	19·09	8·26	209·65	185·7
		Buxa ...	0·04	.....	.....	.....	.....	.....	.....	Nil	Nil	13·36	4·15	178·31	101·9
	Darjeeling Hill.	Silliguri ...	.....	.....	.....	.....	.....	.....	.....	1	0·13	10·62	3·85	150·32	132·9
		Darjeeling ...	0·13	.....	0·04	.....	.....	.....	.....	2	0·13	10·44	3·29	125·00	76·7
		Kalimpong ...	0·64	.....	.....	.....	.....	.....	.....	1	0·40	14·01	?	192·78	?
		Kurseong ...	0·40	.....	.....	.....	.....	.....	.....						
North Behar ...	Purneah ...	Kissengunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·32	2·50	105·38	68·7
		Arrareah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·45	3·79	83·78	62·3
		Purneah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·68	2·01	89 30	59·2
		Goodsara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
		Nawagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·75	?	160·45	?
		Matiari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	63·95	?
		Kaliagunj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?	118·55	?
	North Bhagulpor	Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·60	3·50	61·61	43·1
		Sooped ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·25	2·19	63·21	46·8
		Protabgunj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·50	?	49·30	?
										Nil	Nil	2·56	?		?
	Durbhunga ...	Tajpore ...	0·03	.....	.....	.....	.....	.....	.....	Nil	Nil	0·73	2·55	51·76	41·7
		Durbhunga ...	.....	.....	.....	.....	.....	.....	.....	1	0·03	2·37	2·36	53·50	44·4
		Madhubani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·09	1·99	59·01	43·0
		Sahore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·54	?	23·58	?
		Sookara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
	Mozufferpore ...	Sitamarhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·61	2·34	55·26	42·3
		Mozufferpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·56	2·53	56·13	43·3
		Hajipore ...	0·23	.....	.....	.....	.....	.....	.....	1	0·23	1·19	2·51	48·60	41·7
		Pare ...	0·54	.....	.....	.....	.....	.....	.....	Nil	Nil	0·99	?	7·81	?
		Mahna ...	.....	.....	.....	.....	.....	.....	.....	1	0·54	0·76	?	44·79	?
		Sisher ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·50	?	53·13	?
		Pupri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·64	?	30·19	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 24th of October 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 18th October.	Sunday, 19th October.	Monday, 20th October.	Tuesday, 21st October.	Wednesday, 22nd October.	Thursday, 23rd October.	Friday, 24th October.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1890.	Average rainfall from 16th May to date.
North Behar —*concluded.*	Chumparun...	Motihari ...	0·28	.....	.....	.....	.....	.....	.....	1	0·28	6·46	3·25	72·06	43·75
		Bettiah ...	0·05	.....	.....	.....	.....	.....	.....	1	0·05	4·89	3·40	64·89	47·59
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
		Burhurwa ...	0·02	.....	.....	.....	.....	.....	.....	1	0·02	2·12	?	58·36	?
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·67	4·96	52·67	42·25
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·81	3·28	59·84	42·26
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·95	2·94	48·27	39·05
South Behar	Shahabad ...	Buxar ...	.....	0·22	.....	.....	.....	.....	.....	1	0·22	1·80	2·84	52·47	40·89
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·38	2·76	43·14	38·98
		Bhabooah ...	.....	.....	.....	.....	.....	...	.....	Nil	Nil	0·31	2·69	41·11	39·28
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·94	2·88	44·19	38·82
		Arrah ...	.....	0·12	.....	.....	.....	.....	.....	1	0·12	3·29	2·71	66·96	38·71
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·51	2·54	59·49	41·47
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·34	1·76	60·04	40·96
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·45	2·29	54·84	38·63
		Jehanabad ...	.....	0·04	.....	.....	.....	.....	.....	1	0·04	0·42	3·14	53·35	39·51
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
		Dandnagar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
		Sherghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·67	?	36·81	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	?	45·60	?
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·97	?	54·24	?
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·02	2·65	50·02	40·37
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·97	2·67	52·13	39·97
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·11	2·43	46·95	40·15
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·25	2·34	43·25	38·13
		Bikram ...	.....	0·55	.....	.....	.....	.....	.....	1	0·55	1·38	?	58·35	?
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·07	?	50·24	?
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·26	2·26	44·29	38·30
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·36	2·54	54·84	44·77
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·41	2·14	60·22	42·27
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·34	?	76·44	?
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·97	?	47·76	?
	South Bhagulpore	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·41	2·53	59·77	40·72
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·63	2·69	42·11	42·25
		Kolgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·77	?	62·06	?
		Bongaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·59	2·49	56·86	50·53
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·66	2·54	50·75	43·05
		Pakour ...	.....	0·14	.....	.....	.....	0·09	.....	2	0·23	12·19	3·95	74·10	54·27
		Nya Doomka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·24	3·79	24·00	53·83
		Deoghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·18	3·50	49·43	48·53
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	18·35	2·57	74·28	46·78
		Mohasama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·28	?	48·81	?
		Nawhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
Chutta Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·08	2·55	55·35	45·97
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·33	2·69	49·95	46·29
		Samtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·70	2·85	38·89	44·83
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		2·41		47·55
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·90	2·56	56·80	58·78
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·00	?	50·24	?
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·05	?	47·08	?
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·89	?	57·34	?
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·53	?	50·24	?
	Lohardugga ...	Lohardugga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·76	2·20	53·19	48·68
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·54	2·37	48·57	50·25
		Palamow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·59	2·24	44·27	41·31
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·40	?	43·50	?
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·29	?	48·62	?
		Hossinabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75	?
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·30	?
	Singbhoom ...	Chyebasa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·78	2·24	38·94	40·71
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·70	?	24·83	?
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·25	?	51·46	?
		Baharagora	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·03	2·59	44·22	47·59
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·57	3·04	38·63	45·63
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·34	?	61·86	?
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·94	?	44·15	?
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·51	?	64·71	?
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·32	?	50·18	?

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

Calcutta, *the 28th October* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 24TH OCTOBER 1890.

In last week's report it was noted that conditions at the end of the week were favourable to the formation of a cyclonic storm in the Bay. Subsequent events have proved that a storm was then in the course of formation in the usual birthplace of these whirls in October—to the south-west of the Andamans. The storm was a very small one, and its centre advanced very much closer to the Burmah coast than is usual with storms advancing up the Bay. On Saturday 18th, Sunday and Monday morning, no telegrams were received from Diamond Island, and it illustrates the extreme importance of that station from a storm-warning point of view, that the telegram received on Monday afternoon about 3-0 immediately indicated the passage of a storm of which the ordinary coast stations (Bassein observations being wanting) gave no indications other than might be characterized as "suspicious." The whirl on Monday at 8 A.M. was approaching the Burmah coast, but curved off and advanced in a north-westerly direction and apparently made for the coast of the Circars, as is usual with October storms. There was, however, a trough of low pressure extending from Mymensingh, through Dacca and Burrisal, out into the Bay, and as the barometer was very high behind the Circars coast, the whirl was forced up in the direction of the Sunderbuns, which it crossed on the morning of 22nd at 10 A.M.

Pressure at the beginning of the week was relatively highest in Madras and lowest in North Bengal. A very rapid fall took place on Saturday over the whole eastern and northern area, and a brisk fall at all places in the south-east except Negapatam and Trincomalee. This was followed by a series of very small irregular changes on Sunday and a rapid recovery on Monday, especially in Burmah, behind the depression. This feature was still more pronounced on Tuesday as the depression advanced up the Bay, and became the dominant factor of the weather in Bengal. On Wednesday morning it advanced across the coast, the lowest pressure recorded being 29·900″ at Saugor Island. On Thursday morning it wasbetween Jessore and Dacca, lowest pressure recorded being 29·858″ at Furreedpore and subsequently it began to fill up rapidly, spreading itself out along a low-pressure area extending from Jalpaiguri, through Dhubri, up into Silchar. Whilst the recovery was taking place behind the depression in Bengal, the barometer was falling slowly in Madras, and the distribution approximating more nearly to the ordinary cold weather conditions.

Temperature has been governed to a very great extent by the depression, and, as might be expected, was below the normal of the season. This defect, however, was due almost entirely to low maximums, for minimums were in few cases below the normal, and at the end of the week were decidedly above the average all over the province. All this was due of course to the unusually damp weather.

Rainfall has been reported from few stations except those in the immediate path of the small storm. The stations chiefly affected were Noakholly (4·27″), Mymensingh (3·77″), Furreedpore (3·47″), and Jessore, Dacca, Commilla, and Burrisal, each of which received over two inches. The only very heavy fall in twenty-four hours was 3·07″ at Mymensing on the 23rd.

Humidity and cloud proportion were very high for the season at the beginning of the week, but rapidly decreasing at the end.

Weather during the week was entirely subject to the depression. It has cleared the air, passed away and left conditions very favourable for an early cold season.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 24th of October 1890:—

Meteorological Divisions.	Temperature.						Rainfall.								
			Averages for week.				Of week.			Rainy days.			Since 1st of month.	Since 16th May 1890.	
	Highest observed during week.	Lowest observed during week.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Average.	Normal average.
Orissa	89·7	69·9	86·8	73·1	80·0	−1·3	0·26	1·21	−0·95	0·7	1·6	−0·9	7·53	5·03	60·10	49·82
South-West Bengal ...	89·3	70·4	84·8	73·5	79·2	−1·5	0·67	0·49	+0·17	1·3	1·0	+0·3	7·82	3·60	56·41	50·23
East Bengal	88·1	69·6	84·1	73·4	78·7	−1·2	2·50	0·57	+1·93	3·3	1·2	+2·1	6·67	4·54	71·34	71·68
North Bengal	86·8	63·6	83·8	71·0	77·4	−1·8	0·13	0·29	−0·16	0·7	0·7	0	12·29	3·80	95·18	67·85
North Behar	87·7	66·8	84·3	70·6	77·5	−1·3	0·04	0·08	−0·04	0·3	0·4	−0·1	3·59	2·94	64·45	47·37
South Behar	88·4	65·0	84·9	69·6	77·3	−1·4	0·03	0·23	−0·20	0·2	0·5	−0·3	3·65	2·69	54·47	42·38
Chutia Nagpur	81·9*	59·0*	80·2*	62·6*	71·4*	−2·9*	Nil	0·26	−0·26	0·0	0·3	−0·3	1·97	2·53	45·59	47·67
Assam	93·0	66·9	84·3	71·5	77·9	−0·8										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL; J. H. GILLILAND,
The 28th October 1890. *For Offg. Meteorological Reporter to the Govt. of Bengal.*

Results of the Meteorological Observations taken at the Alipore Observatory from 19th to 25th October 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fair.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Oct.	19th	144·8	5·6	29·850	79·0	84·3	11·1	73·2	75·9	0·855	74·5	87	Calm and variable ..	18	0·02	Partially cloudy, d, ≡, ⌓.
,,	20th	140·4	1·2	·903	78·1	81·6	9 8	71·8	75·9	·869	75·0	90	Calm and variable ..	16	1·22	Chiefly cloudy, o, g, p, ⌓, ≡.
,,	21st	143·2	4·6	·917	78 3	83·5	11·1	72·4	74·3	·800	72·5	83	N and calm ...	57	Nil	Chiefly cloudy; o, ⌓.
,,	22nd	104·3	Nil	·856	77·8	79·1	5·4	73·7	74·4	·815	73·1	84	NNW and N ...	154	0·03	Chiefly cloudy o, g, d.
,,	23rd	149·4	9·9	·861	79·3	85·5	12 0	73·5	75·6	·837	73·9	84	NW and NNW ...	83	Nil	Chiefly clear, ⌓.
,,	24th	144·3	10·4	·900	79·2	85·7	12·5	73·2	75 9	·850	74·3	86	NNW and calm ...	32	,,	Chiefly clear, ⌓.
,,	25th	140·4	10·3	·930	77·2	84·4	14·2	70 2	72·5	·735	70·0	80	NNW and calm ...	45	,,	Clear, ⌓, ...

	Inches.
The mean pressure of the seven days	29·888
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·862
	Hours.
The total number of hours of bright sunshine	42·0
The maximum possible number of hours of sunshine	80·2
	°
The mean temperature of the seven days	78·4
The average temperature of the corresponding period for 24 years, S.-G.'s Office	80·4
The extreme variation of temperature	15·5
The maximum temperature	85·7
	Miles.
The highest velocity of the wind in one hour	12
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	85
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	77
	Inches.
The total fall of rain from 19th to 25th October 1890	1·27
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	1·40
The total fall from 1st January to 25th October 1890	61·24
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	63·68

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; p, passing temporary showers; ⌓, dew; ≡, fog.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 27th October 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 19th to 25th October 1890.

Months.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
October ..	19th ...	29·951	80·3	85·9	11·3	74·6	83·4	77·3	·856	74·5	75	...
,, ...	20th ...	·975	79·8	83·9	8·3	75·6	81·8	77·0	·864	74·8	80	...
,, ...	21st ...	·930	78·9	84·9	12·1	72·8	80·4	74·5	·772	71·5	74	0·80
,, ...	22nd ...	·879	78·6	82·9	8·6	74·3	76·8	74·8	·837	73·0	91	0·07
,, ...	23rd ...	·912	79·6	86·4	13·6	72·8	82·6	76·5	·832	73·7	75	...
,, ...	24th ...	·961	80·8	87·2	12·9	74·3	83·6	77·0	·840	74·0	73	...
,, ...	25th ...	30·008	78·6	86·4	15·6	70·8	82·6	69·6	·550	61·6	49	...

	Inches.
The mean 10 A.M. pressure of the seven days	29·945
The mean temperature of the seven days	79·5
The extreme variation of temperature	16·4
The maximum temperature	87·2
	%
The mean 10 A.M. relative humidity of the seven days	74
	Inches.
The total fall of rain from 19th to 25th October 1890	0·87

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 27th October 1890.

Weekly Return of Traffic Receipts on Indian Railways.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 11th October 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	77,370	29,800	1,63,760	33,900	6,420	69,020	12,250	11,730	23,980
Or per mile of railway	111·97	41·68	236·99	48·91	9·29	99·88	.....	.....	.....
For previous 13 weeks of half-year	1,003,900	3,89,459	34,26,764	4,07,980	88,077	8,85,516	164,355	154,622	318,977
Total for 14 weeks ...	1,081,270	4,18,259	35,90,524	4,41,780	*94,497	9,54,536	176,605	166,353	342,95
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year	68,839	25,258	2,45,907	19,847	5,622	50,727	10,704	11,214	21,918
Per mile of corresponding week of previous year on 649 miles open	106·07	38·92	378·90	30·58	8·66	78·16	.....	.....	.....
Total to corresponding date of previous year	1,078,221	3,94,509	38,46,890	4,51,963	1,18,352	9,64,824	166,400	189,193	355,596

* Steam-boat earnings for the week, Rs. 4,980.
Ditto ditto to date, „ 71,490.

* Steam-boat earnings for the week, Rs. 50.
Ditto ditto to date „ 3,510.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 11th October 1890.			Receipts for week ending 12th October 1889.			Total receipts from 1st April 1890 to 11th October 1890.			Total receipts from 1st April 1889 to 12th October 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	69,020	99·88	649	50,727	78·16	671	23,78,216	121·88	640	22,80,477	126·14		2,261

N.B.—Earnings of B. and N.-W. Section. Earnings of Tirhoot Section.

	Rs.	Rs.
Coaching ...	13,010	15,790
Goods ...	13,580	20,220
Other earnings ...	43,690	2,730
Total ...	30,280	38,740

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.	A.	P.
Approximate earnings for week ending 4th October 1890	14,028		
Corresponding period of 1889	16,210		
Decrease	2,182		
Receipts per mile for week ending 4th October 1890	275	0	11
Corresponding period of 1889	317	13	5
Decrease	42	12	6
Receipts from 1st July to 4th October 1890	1,29,390		
Corresponding period of 1889	1,56,210		
Decrease	26,820		

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RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE PRESIDENCY DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Darjeeling, the 21st October, 1890.

RESOLUTION.

READ—

The General Administration Report of the Presidency Division for the year 1889-90.

Mr. Smith continued in charge of the Division during the year, and has again submitted a full and excellent report. There is a curious omission of the district of Moorshedabad in the third paragraph, which is not explained.

Tours.

2. The Commissioner's tour was well planned, and the Lieutenant-Governor is pleased to observe that, with a single exception, all district officers completed useful tours of the requisite length. In Jessore district officers, in consequence of the indigo disturbances, were out altogether for 114 days. In Moorshedabad the Collector was out for 104 days, part of his time being devoted to the flood caused by the breach of the Rampal embankment and to the consequent distress. The Collectors of Nuddea and Khulna were out for 106 and 93 days respectively. The Lieutenant-Governor is disposed to agree with the Commissioner that, though the rapid succession of district officers in the 24-Pergunnahs affords some excuse, the period of 60 days especially fixed for that district should have been completed.

Mr. Forbes, however, did his best to make up the deficiency by a useful tour of 41 days. All the sub-divisional officers in the Division were out for the prescribed time, with the exception of the sub-divisional officer of Kandi, whose tour was unavoidably interrupted. In almost every case Assistant Magistrates posted to head-quarters were out for a longer or shorter time.

Weather and crops.

3. There was a paucity of rain at the beginning of the year; later on there were local floods in Moorshedabad and Nuddea, but the chief and most widely-spread characteristic of the season was the unusually late rain in November, which damaged the cold-weather crops and in some places also the amun harvest. In the result the harvests generally were slightly better than those of the preceding year.

Public health and material condition of the people.

4. Judging from the recorded mortality, the past year was more healthy than either of the two preceding years. Jessore and Khulna show worse on paper, but it is not known how far this is due to improved registration. The other districts show improvement. There was an increase of cholera in Nuddea and Moorshedabad, attributed to the want of rain in the early months. Fever, on the other hand, was not so fatal. Owing to the amalgamation during the year of a considerable portion of the Suburbs with the town of Calcutta, no useful comparison can be made in the 24-Pergunnahs. There was an outbreak of small-pox in that district in spite of a considerable extension of vaccination, 335 deaths from this cause having occurred, as against 49 and 23 in the two preceding years. It is satisfactory, however, to note that the practice of inoculation appears to have been stamped out. The scanty harvests of 1888 were followed by high prices in 1889, and there was some pressure in the Diamond Harbour sub-division of the 24-Pergunnahs, and in the Lalbagh and Jungipore sub-divisions of Moorshedabad, which necessitated relief operations until a good aus and jute crop put an end to further anxiety. There was also some scarcity in the Magurah and Bongong sub-divisions of Jessore; but as to the remainder of the Division the Commissioner writes that "the condition of the cultivating classes was one of fair prosperity, as they were able to make up for the deficiency of the crops by the high prices which prevailed." He adds, however: "The labouring and middle classes, dependent on service and fixed income, suffered on account of the high prices of food-grains. Living in a state of transition, the latter class have not only to keep up old customs and appearances, but also have to cope with the wants of the day, and few of them have sufficient strength of character to resist and set themselves free from old trammels."

The wages of labour were not affected by fluctuations in price, and remained almost identically the same as in the two preceding years.

Manufactures and trade.

5. As in the previous year, 46 mills, presses and factories were at work, giving employment to nearly 57,000 persons in the manufacture of cotton-twist and yarn, gunny-bags and cloth, sugar, paper, silk, ice, shell-lac and lac-dye. The bone-crushing factory at Tengra was closed, but this is counterbalanced by a saltpetre refinery at Balliaghatta. Owing to the state of the market the outturn of jute was less than in 1888-89. Cotton and other industries appear to have flourished, and especially indigo. The outturn of indigo in Nuddea was 6,650 maunds, valued at Rs. 11,52,80[illegible]6; in Jessore 2,695 maunds, valued at Rs. 4,54,488; and in Moorshedabad 4,358 maunds, valued at Rs. 8,33,530, the outturn and value being in every case considerably in excess of those of the previous year, though lower prices ruled in the market. The important sugar industries were also generally prosperous, though imported sugar is usurping the place of the local article in Khulna. In Moorshedabad the year was favourable to silk, both as to outturn and value. The total weight of traffic registered between the mofussil and Calcutta shows a decline of about 9¾ lakhs of maunds, while the returns of trade between Calcutta and the mofussil are nearly stationary. The import of rice into Calcutta was less by nearly 4½ lakhs of maunds, and the export greater by over 3 lakhs—facts which afford a useful commentary on the ready adjustment between trade and the varying conditions of different seasons. There was a further decrease this year in the traffic over the Nuddea river, and the Lieutenant-Governor would have been glad of some explanation. The traffic in Khulna is still carried principally

by river, though the railway has appropriated a portion of the jute trade of Eastern Bengal.

Police and crime.

6. There was an increase of cognizable crime, chiefly under the head of house-breaking and other offences against property, attributed to the high prices current during the year. In other respects the returns do not call for any criticism beyond the remarks made by the Commissioner. With regard to the conduct of the police, the Commissioner quotes with approval the following observations by the Magistrate of the 24-Pergunnahs:—

"The police of the district cannot, as a body, be deemed efficient, and are in no way superior to the men found in districts more remote from the metropolis. There are a few smart and conscientious officers, but, on the whole, the standard of intelligence and honesty is low. Better materials cannot be procured while the pay of the lower ranks continues on its present low scale, and reward for thoroughly good service does not go beyond the rank of Inspector. The important work of investigation of criminal cases is as a rule done only fairly, and there is a lack of energy, patience, and detective capacity which causes the failure of many serious cases."

Revenue.

7. The percentage of collections of the land revenue on the gross demand was 95·69, the total collected being Rs. 51,58,542. There was a decrease in the excise revenue, chiefly due to the abolition of the outstill system in the 24-Pergunnahs and Nuddea, and the consequent decreased consumption of country liquor, to which the closing of several shops by order of the Commissioner of Excise also contributed. There was, however, an increase in the consumption of rum in Calcutta, no change having been made in the rate of duty, which stands at Rs. 4 per gallon. There was a decrease in the consumption of salt in both the protected areas in the 24-Pergunnahs and Khulna, attributed partly to illicit manufacture, partly to a smaller number of reapers having come into the district during the harvest time, and partly to a smaller number of feasts having been celebrated owing to the poor outturn of the harvest. The gross revenue from stamps amounted to Rs. 39,46,935, and the net increase, taking receipts and charges, amounted to Rs. 1,27,623. The net demand of income-tax was Rs. 21,33,988, or an increase of 7·5 per cent. on the demand of last year. The collections were 89·6 per cent. as against 90·9, the worst result coming from Jessore, where the Deputy Collector in charge did not pay sufficient attention to his duties.

Education.

8. The following statistics, given by the Commissioner, are interesting:—"The area of the Presidency Division is 12,021 square miles, and it has a population of 7,771,693 souls, of whom 3,895,365 are males and 3,876,328 females. Calculating at 15 per cent. of the total number, the school-going population would consist of 584,304 boys and 581,449 girls. The numbers attending the schools being 180,592 boys and 11,650 girls, we have of all boys of a school-going age 1 in 3·2 and of girls 1 in 49·9 only at school. The total number of schools on returns being 5,913, there is one school for a little over two square miles of area." Making allowance for the transfer from the 24-Pergunnahs of part of the Suburbs of Calcutta, there was still a slight decrease in the number of schools and pupils, extending to the number of girls' schools and of girls under instruction and to the number of Mahomedan pupils. It is difficult to account for such retrogression in the Presidency Division.

District and Local Boards and Municipalities.

9. Mr. Smith writes:—

"From what I have seen, it seems to me that, on the whole, the system of local self-government has continued to work smoothly and with fair success."

With regard to municipalities, the transfer of jurisdiction in the 24-Pergunnahs has been already alluded to, and was noticed in the Resolution last year. The Commissioner observes:—

"The attendance of Commissioners at meetings has been on the whole fair, and they have taken interest in the administration of the municipalities under their charge."

In another passage the Commissioner has a word to say in favour of Rate-payers Associations, which "display considerable activity in criticising the proceedings of Municipal Commissioners, their Chairmen and Vice-Chairmen, and serve as a check upon irregular proceedings and extravagant expenditure of

public money." Criticism is wholesome, but in unintelligent hands is apt to degenerate into obstruction. The Lieutenant-Governor is pleased to observe that there are no complaints in the Presidency Division on this score.

Public feeling and the Public Press.

10. The Commissioner remarks:—

"Public opinion on questions of general interest is chiefly confined to the educated classes living in towns, and it is formed and guided by the Calcutta press, which has a large circulation in the districts of this Division. Municipal discussions, which are not uncommon, excite much feeling and discussion, but they are purely of local interest and attract no attention beyond the towns concerned. The masses of the people only interest themselves in such matters as concern them. To matters of general interest they are perfectly indifferent."

Rumour might carry to mofussil villages the news of the visit of an English Prince and Heir-Apparent, or of a meeting of Congress at Bombay, but to the majority such occurrences would appear remote and indistinct, though they might have a passing effect on the imagination. Of local events the indigo disputes in Jessore have perhaps received a larger share of public attention than any other. In the beginning there were two centres of discontent in the district, but it was some time before the quarrel reached the acute stage and attracted general notice. This happened when the ryots had recourse to those tactics of violence which are always characteristic of agrarian disputes in this country. The public peace was so far threatened that it became necessary to make a special administrative arrangement, and Mr. Luson was placed in charge of the two sub-divisions of Jhenidah and Magurah—an arrangement which was discontinued on the transfer of Mr. Luson on promotion as district officer to Moorshedabad. The excitement culminated in two serious riot cases, which were dealt with in the Courts. The whole subject has been considered in another Department of this Government, and it is only necessary to say here that the local excitement has to a great extent subsided, and that the Lieutenant-Governor hopes that the public peace will be maintained.

Conduct of zemindars.

11. In Nuddea, the Maharaj Kumar of Nuddea came of age and took over his estate from the Court of Wards. He is said to be taking great personal interest in its management. In Jessore, the only landlord who has been highly spoken of by the Collector is the Rajah of Naldanga. In Moorshedabad, the Nawab Bahadur, the Maharani Surnomoyee, and other zemindars received the acknowledgments of Government for their liberality during the distress. One of the Nawab's brothers, Saliman Syed Wahid Ali Mirza Bahadur, was appointed a Municipal Commissioner and Honorary Magistrate during the year.

12. The Lieutenant-Governor desires to acknowledge the care and success with which Mr. Smith has managed his Division during the year. Mr. Ritchie rendered excellent service in Moorshedabad, especially in connection with the inundations in August and September 1889. Mr. Forbes sustained his reputation as an energetic District Officer, and Baboo Durgagati Banerjee, as Deputy Collector of Calcutta throughout the year, is very favourably mentioned. The Commissioner's remarks on the merits of officers will be forwarded to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

C. E. BUCKLAND,

Offg. Secretary to the Govt. of Bengal.

RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE BURDWAN DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Darjeeling, the 24th October, 1890.

RESOLUTION.

READ—

THE General Administration Report of the Burdwan Division for the year 1889-90.

The Division was in the charge of Mr. Clay for eight months, of Mr. Alexander for three months, and for the remaining month of the year of Messrs. Buckland and Toynbee. Although Mr. Toynbee took charge just before the close of the year, he is well acquainted with the Division and has made his report full and interesting.

Tours.

2. The Commissioner's tour extended to sixty days, in the course of which he inspected all the district offices. Only one sub-divisional office and treasury, however, were inspected, but the Commissioner hopes to be able to inspect them all during the current year. All the Sub-divisional Officers were on tour for the prescribed period of 90 days. Mr. Grant in Beerbhoom and Mr. Tayler in Bankoora, however, were out for only 87 and 85 days respectively; and in Midnapore, owing to the change of officers and other causes, the total touring done amounted to only 66 days. As regards Howrah, the Lieutenant-Governor accepts the Commissioner's view that Mr. Currie's tour of 60 days was sufficient in view of the size of the district.

Weather and crop.

3. In Beerbhoom and Howrah the rainfall was sufficient, but elsewhere it was not only insufficient in quantity but was most unevenly distributed, and consequently the rice crops are reported to have averaged only 13·1 annas. It seems doubtful however, from an examination of the figures, whether the rule that the average crop is to be taken as 16 annas, which has been misunderstood elsewhere, has been properly applied in all the districts, and if so, the crops throughout the Division must probably be taken as nearly average. In addition to this the prices obtained were exceptionally high, and the Commissioner considers that the people were fairly well off. As regards the coolies or labourers, however (who largely consist of temporary immigrants), it is stated that their wages remained almost stationary in spite of the high prices. Although the material condition of the people was good, the public health of the Division during the year was, as elsewhere, bad—fever being especially prevalent and there being also an extraordinary epidemic of influenza, which caused considerable suffering and public inconvenience, although seldom attended with fatal results.

Trade and manufactures.

4. The trade and manufactures of the districts were, on the whole, in a flourishing condition during the year. At the Barakar iron works the value of pig-iron and castings turned out is reported to have been 33 per cent. greater than in the previous year, and the six firms which have iron works in Howrah are all said to have done well. As regards coal, it is stated that some new coal-pits were worked in the district of Burdwan, and that the export from Raniganj was 1,227,990 tons as against 1,101,079 and 944,449 tons in the two preceding years. Indigo also has done well, the crop having been a good one throughout the Division and four new factories having been opened. On the other hand, it appears that the output of the Balli paper mills fell considerably below that of the two preceding years, and that the cotton industry in Burdwan and the silk industry in Bankoora are declining. In Beerbhoom, however, the statistics furnished show that silk is improving. The information regarding the Hooghly jute mills is said to be very incomplete; but, so far as could be ascertained, the operations were restricted owing to excess production Some of the explanations regarding the export of rice are not readily intelligible. In Burdwan it is said that the export in 1889-90 decreased owing to the bad harvests of two successive years; but it is not clear how the harvest of the previous year can have affected the export of the year under review, although possibly the meaning is that a smaller area was sown with rice. In Bankoora it is said that the export fell off owing to the absence of any keen demand from outside; but the keenness

of the demand is measured by the price offered, and the price offered was exceptionally high; and as the crop is stated to have been much better than in the two preceding years, there must have been a considerable surplus available for exportation. The same remarks apply to Beerbhoom, where a similar explanation is given, in spite of an 18-anna crop and high prices elsewhere. In Hooghly it is said that, owing to high prices, the trade in rice and paddy was not brisk. High prices are usually associated with brisk trade, but probably the explanation is that, owing to the poorness of the crop, only a small surplus was left for export. The continued increase in the importation of European piece-goods is satisfactory as an indication of the prosperity of the people and of the increasing variety in their wants. The only other point calling for remark under this head is the statement that in Howrah the trade in hides is decaying.

Administrative changes.

5. Of the administrative changes, the most important was the appointment of an Excise Commissioner, a change, however, which affected other Divisions as much as Burdwan. The others referred to are the abolition of the Assensole Municipality, the establishment of an independent Bench at Rampore Hât, the reduction in the members of the Midnapore District Board from 36 to 24, and the investment of three of the Honorary Magistrates of the First Hooghly General Bench with powers of a second class Magistrate to sit and try cases singly. As regards the share taken by Mahomedans in the administration, the Lieutenant-Governor is glad to observe a slight increase in the percentage employed, but at the same time he is compelled to call attention to the remark of the Commissioner, who says, with reference to the difficulty of getting qualified Mahomedan candidates:—"The moral of the matter is that the Mahomedans must bestir themselves and renew their exertions instead of crying to Government to help them to appointments for which they are not found to be equally fitted with others."

Police.

6. There was a general increase of crime during 1889, both cognizable and non-cognizable, in all the districts of the Division except Beerbhoom, where there was a decrease of one cognizable and 262 non-cognizable cases. Regarding this the Commissioner says that the increase is due chiefly to the high prices which prevailed throughout the year and is most marked in offences against property; and that this class of offence increased even in Beerbhoom, which otherwise shows a nominal decrease. This state of affairs is far from satisfactory, and, moreover, the explanation cannot be held to be sufficient, for a distinction must be drawn between high prices the result of scarcity in the Division and high prices due to increased demand outside the Division. The crops throughout the Division were much better than in the two preceding years, and it is obviously an advantage to an agricultural population to sell their produce at high prices. In this connection it is significant that there was an increase in offences against property even in Beerbhoom, where the rainfall was evenly distributed and the rice crop was an 18-anna one. The remarks of the Commissioner on the rural police and on the success of Mr. Munro, District Superintendent of Police of Midnapore, in dealing with them are interesting and will be communicated to the Judicial (Police) Department for disposal.

Criminal Justice.

7. Under the head of Criminal Justice the Commissioner is able to give, the Lieutenant-Governor is glad to observe, a favourable and encouraging account of the work done by the Benches of Honorary Magistrates and of the extension of the system. Under this head also he makes the following remarks on the subject of criminal fines:—

"The subject of the realization of criminal fines is, I think, one which deserves more attention than it ordinarily receives at the hands of Magistrates. There is a very large outstanding balance of fines unrealized in this Division, and steps have recently been taken to write off all sums found to be irrecoverable after repeated attempts. This balance was Rs. 35,274 on the 31st March 1890. In this connection the quarterly examination of the thana fine registers prescribed by the fine rules is a most important duty, which should not be delegated as a matter of course to Subordinate Magistrates. If, for the purpose of this examination, the Court Sub-Inspector were made to give a detailed list of the fines outstanding in his books (thana by thana), a great impetus would, I think, be given to the police in this important branch of their work. Subordinate Magistrates who are in the habit of giving wholly inadequate sentences of imprisonment often impose fines which are quite beyond the

present or future possible means of the accused. The enquiries periodically made as to the assets of such persons not only needlessly irritate and disgrace them but also impose a useless and hopeless task upon the police."

These remarks will be communicated for disposal to the Judicial Department, to which their consideration properly belongs.

Land Revenue.

8. The result of the land revenue administration was fairly satisfactory, 93·48 of the total demand being collected within the year, and the percentage of total collections on current demand being 105·34. The heaviest arrears occurred in the districts of Hooghly and Midnapore, that in the latter being due to successive bad seasons. As in the previous year, use was made of the Eden Canal for irrigation purposes and about 30,000 beeghas of rice lands were irrigated from it. As regards the Tenancy Act, it is said that no burning questions have arisen under it, that the special provisions for registering transfers of permanent tenures are gradually falling into disuse, and that the number of applications for survey and record of rights is on the increase. The only district in which the charge of wards' estates was heavy was Midnapore, and in that district it was very heavy, there being at the close of the year 15 estates under the Court, with a gross annual income of about Rs. 3,57,500.

In this connection may be noted the enormously increased extent to which the public availed themselves of the post-office for the remittance of land revenue. Against 7,890 orders covering Rs. 45,845 in 1888-89, the Postal Department issued 20,990 for remittances aggregating Rs. 1,34,654. The Commissioner adds that figures to show the working of the similar system for the payment of rent are not available, but the local officers state that it has been a partial success, in spite of the opposition of the zemindars and their local agents.

Stamps, Income-tax and Excise.

9. There was an increase of 2·3 per cent. in the revenue from stamps and of 3·5 per cent. in that from income-tax. Regarding the latter the Commissioner remarks:—"These results are, I consider, highly creditable to the district officers generally, the more so as they were obtained without any complaints being made of harsh and inquisitorial measures with the issue of a smaller number of processes and with a percentage of only 2·1 objections on the part of the 8,466 persons assessed." On the other hand there was a falling off under Excise, due to the outstill being replaced by the sudder distillery system.

Communications.

10. Under the head of Railways and other Public works may be noted the opening of the Bengal-Nagpur Railway as far as Chakhardharpur and the completion of the Damudar bridge. Under the head "Communications" the Commissioner gives figures showing the large amount spent on repairs as compared with the small expenditure on original works and village roads, and remarks as follows:—

"The great difficulty of all the District Boards is the fixed and inelastic nature of their income and the large mileage of roads which they have to maintain. They are like parents with large and increasing families, but with fixed incomes. Each mile of road newly made or metalled involves a fixed charge for maintenance, and thus adds to the financial difficulties of the future. The maintenance of village roads is less expensive than that of the main lines of communication, both metalled and unmetalled; but the want of a proper establishment to supervise the work on the former is, I think, the principal reason why so little money is spent on them. The District and Local Boards hesitate to spend money on work which they cannot properly check or control, and they fear to entrust it to local agents in whose integrity and supervision they have no confidence."

Village roads, however, have this great advantage, that the land required can usually be obtained for nothing, whereas the people hesitate about giving, and usually will not give, the land and roadside lands for a road much broader than they require. In sub-divisions, the Sub-divisional Officer will almost invariably give a good account of money made over to him for village roads which he is given free liberty to spend, and in sudder sub-divisions the members of the Board should, with the assistance of the District Engineer, be able to look after the work themselves and to see that the money is properly spent.

Education.

11. In paragraph 68 *et seq.* of his report the Commissioner deals with the administration by District Boards of the grant for primary education. Although there was a

divisional increase both in the number of pathsalas and of boys attending them, the results cannot, on the whole, be regarded as very satisfactory, for there was a decrease both in Midnapore and in Howrah; and in the case of girls' schools, there was a decrease both of schools and scholars in Burdwan and in Howrah, while in Midnapore it is reported that four girls' schools were closed "owing to the apathy of the managers." In Bankoora, however, the administration has been much more successful and the prospects are brighter. There it is said that, whereas in 1887-88 there were nearly 49 girls' schools with 920 pupils, there were last year 121 such schools with 2,054 pupils. A great part of this increase is attributed to the establishment of separate girls' schools in the place of mixed schools. It is probable that if the Magistrate and Chairman of the District Board takes an interest in primary education and shows that he does so, the apathy of the managers will disappear; and it is to the absence of such an interest that the Lieutenant-Governor feels compelled to attribute, to some extent, the failure in this branch of the administration in the districts referred to.

Local Self-government.

12. As regards local self-government institutions the verdict of the Commissioner is on the whole favourable. He says that the working of the District and Local Boards and of the municipalities in his Division is pronounced by the district officers generally to have been successful; and he adds that the attendance of the members has generally improved, and that they have been of much use as consultative bodies. He also makes the following general remarks on the subject:—

"The successful working of local self-government institutions depends quite as much upon the character and abilities of the Chairman, Vice-Chairman, and permanent officials as a district does on its staff from the Magistrate-Collector downwards. The position of an official Chairman is altogether a stronger and more popular one than that of a non-official. The latter's every public act is regarded with distrust and suspicion: parties are formed to thwart his measures and question his executive action, and his position is by no means a bed of roses. It says much for the future of local self-government that many such difficulties have been bravely faced and overcome. The names of Baboo Lalit Mohan Sing, Vice-Chairman of the Hooghly District Board; of Baboo Siva Narain Mookerjee, Chairman of the Uttarparah Municipality; and of Baboo Nalinaksha Basu, Chairman of the Burdwan Municipality and Vice-Chairman of the District Board, whose services have recently been specially recognised by the title of Roy Bahadoor, deserve special mention in this connection.

"I would also mention Baboo Eshan Chunder Mitter, the Chairman of the Hooghly Municipality. With the exception of the Baidyabati Municipality in the Hooghly district, none of the local institutions have shown any wrong-headedness or impatience of control. On the contrary they have, as a rule, loyally accepted the advice tendered them by the officers of Government both in matters of finance and of general administration. Not the least promising feature of the present system of local self-government, and one which gives much hope for the future, is the fact that its defects are seen and fully admitted by all classes of the people. The strength of purpose and the moral courage to apply the remedy—which is the subordination of all personal and party feeling to the public good—though wanting at present, will, it is hoped, be developed gradually in the future."

Conduct of zemindars.

13. The Commissioner remarks that the conduct of zemindars has been, on the whole, satisfactory and singles out for favourable notice Baboo Raghu Nath Panja in the district of Bankoora and the zemindars of Motiari and Ajudhya in the same district. Only one zemindar, he says, deserves specially unfavourable notice—Mohant Gopal Das of Beerbhoom, whose estates are being settled under the Tenancy Act.

Character of officers.

14. A copy of the remarks regarding the conduct of officers will be forwarded to the Appointment Department for record. But the Lieutenant-Governor will take this opportunity of acknowledging the services rendered by Mr. H. Lee, C.S., both in Burdwan and Midnapore, which have led to his selection for an important charge elsewhere. Mr. Cooke has also done well in the Hooghly district. The Commissioner writes of his Personal Assistant, Babu Pran Kumar Das, as an excellent officer, hard-working and thoroughly reliable.

By order of the Lieutenant-Governor of Bengal,

C. E. BUCKLAND,

Offg. Secretary to the Govt. of Bengal.

RESOLUTION ON THE TRIENNIAL REPORT OF THE SANITARY COMMISSIONER FOR BENGAL ON THE WORKING OF THE VACCINATION DEPARTMENT DURING THE THREE YEARS 1887—90.

MUNICIPAL DEPARTMENT—SANITATION.

Darjeeling, the 20th October 1890.

RESOLUTION.

READ—

The Triennial Report of the Sanitary Commissioner for Bengal on the working o the Vaccination Department during the three years 1887-88, 1888-89, an 1889-90.

Read also—

The annual statistical returns for 1888-89, with the brief notes accompanying them, and the report of the previous year incorporated with the Sanitary Report, together with the Resolutions recorded thereon.

This is the first occasion on which, under instructions contained in the Resolution of the Government of India, Home Department, No. 28—1579-95, dated 15th July 1887, a triennial report on the working of the Vaccination Department in Bengal has been submitted. Dr. Gregg's report, though commendably moderate in length, gives a sufficiently clear view of the working of the Department during the past three years, and the diagrams and maps which accompany it are both intelligible and instructive.

2. The system of administration of the Department remained unchanged; but during the past year the amalgamation of the Sonthal Pergunnahs Circle with the Darjeeling Circle has reduced the number of circles from eight to seven. The following table shows the number of officers and vaccinators working under the Department during each of the three years under report:—

		Inspecting Staff.				Operators.				
						Vaccinators.		Apprentices.		
		Superintendents.	Deputy Superintendents.	Inspectors.	Head Vaccinators, &c., &c.	Total of Inspecting Officers.	Government or paid.	Licensed.	Government or paid.	Licensed.	Total.
In Vaccination Circles	1887-88 ...	8	12	93	21	126	210	1,331	41	598	2,169
	1888-89 ...	8	12	98	19	124	192	1,349	48	731	2,320
	1889-90 ...	7	14	110	21	145	179	1,489	31	588	2,278
In municipalities and dispensaries.	1887-88 ...	...	...	...	...	...	209	14	...	...	223
	1888-89 ...	...	...	...	...	...	240	4	...	...	244
	1889-90 ...	...	...	...	...	...	245	7	...	...	252
Grand Total	1887-88 ...		12	93	21	126	419	1,335	40	598	2,392
	1888-89 ...		12	98	19	124	432	1,353	48	731	2,564
	1889-90 ...	7	14	110	21	145	424	1,487	31	588	2,530

3. The average annual number of operations performed during the past three years was 1,790,098, or 719 to each vaccinator employed; and the average annual percentage of persons vaccinated to the whole population was 2·9. Of the two agencies, the paid and the licensed, the former were far the more active, performing on an average 1,475 operations each to 671 of the licensed vaccinators—a result which is probably due to the fact that the people obtain their services free and are therefore more willing to employ them.

4. The reported proportion of successful operations was in the case of primary operations 99·38 and 95·30 in vaccination circles and municipalities, dispensaries, &c., respectively, and in the case of secondary operations 34·08 and 64·04. Dr. Gregg reports that the percentage of successful secondary operations in municipalities is much too high to be correct, and that either many cases returned as secondary were in fact primary, or that the rate of success was not truly recorded. The question of the accuracy of the reported rate of success was raised by the Government of India in Mr. Lyall's letter No. 327, dated 17th October 1889, in which comment was made on the small proportion of operations checked by inspecting officers. The following table shows, however, that during each of the three years under report the number of operations checked by supervising officers of one class or another has always

exceeded 70 per cent. The Lieutenant-Governor attaches much importance to these inspections, and hopes that future years will show a larger percentage, especially on the part of Superintendents:—

	Number of operations.	Superintendents.		Deputy Superintendents.		All other Inspecting Officers.	
		Number of cases inspected.	Percentage.	Number of cases inspected.	Percentage.	Number of cases.	Percentage.
1887-88	1,639,694	155,924	9·50	144,917	8·83	930,602	56·61
1888-89	1,758,354	133,851	7·61	166,035	9·44	1,033,553	58·78
1889-90	1,703,288	80,562	4·73	189,936	11·15	973,344	57·14

5. Dr. Gregg dwells at some length on the very important question of the results of vaccination as shown by the number of deaths from small-pox in various areas, compared with the proportion of population in those areas protected by vaccination; and illustrates these results by several useful diagrams. The following table shows the proportion of deaths from small-pox during the last seven years in areas under vaccination compared with those not under vaccination:—

	Number of areas which were under vaccination in—							Death-rate from small-pox per mille of population.						
	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90
Areas under vaccination	430	463	472	488	507	542	548	·12	·15	·06	·02	·04	·09	·14
„ not under vaccination ...	149	116	107	91	72	35	29	·25	·55	·26	·16	·16	·09	·15

It is noticeable that though the death-rate in protected areas is, as a rule, much lower than in those which are not under vaccination, the results of the last two years are far from satisfactory. The table shows, moreover, a marked increase in the mortality from small-pox in each of the last three years. In this connection Dr. Gregg remarks that "the protection of rural areas can never be placed on a proper footing until the Compulsory Vaccination Act in a suitably modified form be extended to them," and promises a full report on the subject, which is awaited by Government.

6. The total cost of vaccination during the three years was Rs. 4,97,833-0-11, giving a yearly average of Rs. 1,65,944-5-7. The average cost of each successful operation was one anna six pie against one anna eight pie in the three years 1884—87. It was highest in Calcutta, where each successful operation cost 15 annas 7 pie, and lowest in the Eastern Bengal Circle, where the cost was only 7 pie.

7. The attitude of the people towards vaccination is, according to Dr. Gregg, one of passive acceptance tempered apparently by a considerable but fortunately diminishing amount of passive obstruction. The issue of lymph in tubes from the Animal Vaccination Depôt in Calcutta to the mofussil has proved a failure owing, in Dr. Gregg's opinion, rather to carelessness in storing at the depôt than to any physical causes. Dr. Gregg speaks most unfavourably of the whole working of the depôt, which is under the supervision of the Superintendent, Metropolitan Circle. It is hoped that, when the projected Darjeeling depôt is in working order, the supply of animal lymph from Darjeeling and Calcutta will be sufficient to enable the Bengal vaccine establishment to dispense with lymph obtained from the human subject.

8. The Lieutenant-Governor is glad to notice the excellent work done by Moulvie Tajamal Hossein, Deputy Superintendent of the Bhagulpore Division. The remarks made by the Sanitary Commissioner on the working of his subordinates in this Department will be communicated to the Appointment Department for record.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

DISTRICT ROAD FUND.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Road Cess.

No. 3685R.C.

Calcutta, the 31st October 1890.

READ—

Letter from the Accountant-General, Bengal, No. $\frac{L.F.}{454}$, dated the 11th October 1890, submitting an abstract of receipts and expenditure of the several District Road Committees in Bengal for the quarter ending 30th June 1890.

RESOLUTION.—The Lieutenant-Governor directs that the accounts of the receipts and expenditure of the several District Road Committees in Bengal for the first quarter of the year 1890-91 be published in the *Calcutta Gazette* and circulated to the officers concerned.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the abstract of receipts and expenditure, be published in the Supplement to the *Calcutta Gazette*.

Ordered also that a copy of this Resolution, and of the abstract referred to, be forwarded to the Commissioners of the Rajshahye, Bhagulpore, Chittagong and Chota Nagpore Divisions, to the Superintending Engineers of the Eastern and Western Circles, and to the Financial Department of this Government, for information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secretary to the Govt. of Bengal.

DISTRICT

Statement of Receipts and Expenditure of the several District Roa

REC

	Districts.	Balance in treasury on 1st April 1890.	Provincial Rates.				Interest on arrears of road cess.	Public Works.			Irrigation.	Miscellaneous.	
			Cess on lands.	Cess on mines.	One per cent. road cess.	Total.		Road tolls.	Ferry tolls.	Total.	Canal tolls.	Rent of serais and staging-bungalows.	Fees, fines and forfeitures.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.
Cess Districts.	Darjeeling ...	6,615 7 0	2,575 1 4	55 0 11	.....	2,630 2 3	.....	.....	.....	.....	.....	.....	.....
	Hazaribagh ...	35,315 15 10	4,892 3 10	17 12 9	.....	4,910 0 7	15 13 9	.....	.....	.....	.....	13 8 0	2,724 4 0
	Lohardugga ...	19,818 15 10	14,524 7 1	.....	.....	14,524 7 1	95 15 9	.....	.....	.....	.....	7 0 0	584 0 0
	Manbhoom ...	23,432 2 0	3,153 4 3	811 9 11	.....	3,964 14 2	21 12 6	.....	.....	.....	.....	406 6 2	6 0 0
	Total ...	85,182 8 8	25,145 0 6	884 7 7	.....	26,029 8 1	133 10 0	.....	.....	.....	.....	426 14 2	3,314 4 0
Non-Cess Districts.	Chittagong Hill Tracts	5,340 5 8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Sonthal Pergunnahs	17,275 0 8	.....	.....	.....	.....	.....	.....	.....	.....	.....	78 8 0	.....
	Singbhoom ...	6,270 1 3	.....	0 9 6	.....	0 9 6	.....	.....	.....	.....	.....	1 0 0	.....
	Total ...	28,885 7 3	.....	0 9 6	.....	0 9 6	.....	.....	.....	.....	.....	79 8 0	.....
	Grand Total ...	1,14,067 15 10	25,145 0 6	885 1 1	.....	26,030 1 7	133 10 0	.....	.....	.....	.....	506 6 2	3,314 4 0

EXPE

	Districts,	Refunds.			Provincial Rates.	Administration.			Stationery.	Public				
		Cess.	Other receipts.	Total.	Establishment and contingencies of office of collection.	Establishment and contingencies of Commissioner's office.	Percentage cost of establishment for office of account and control.	Total.	Stationery and printing.	Original works.	Repairs.	Establishment.	Tools and plant.	Toll and ferry establish-
		Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	R. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	R
Cess Districts.	Darjeeling ...	.....	.....	.....	331 2 0	366 12 0	59 6 0	426 2 0	.....	.....	1,127 9 9	348 5 1	.....	...
	Hazaribagh ...	.....	.....	.....	1,992 9 10	256 0 0	246 15 2	502 15 2	51 2 0	.....	4,314 12 4	1,840 6 3	271 13 0	...
	Lohardugga ...	.....	.....	.....	2,285 1 3	169 1 3	48 1 5	217 3 8	15 15 3	130 0 0	936 1 7	2,337 2 6	37 2 3	...
	Manbhoom ...	.....	.....	.....	362 15 2	373 1 7	208 13 1	581 14 8	127 4 9	.....	5,229 11 9	1,610 3 2	.....	...
	Total ...	.....	.....	.....	4,971 12 3	1,166 14 10	563 3 8	1,730 2 6	194 6 0	130 0 0	11,608 3 5	6,136 0 0	308 15 3	...
Non-Cess Districts.	Chittagong Hill Tracts	.....	.....	.....	.....	13 11 7	.....	13 11 7	36 9 10	.....	246 11 6	1,257 2 3	.....	...
	Sonthal Pergunnahs	.....	.....	.....	.....	249 14 0	.....	249 14 0	.....	.....	2,533 15 3	1,550 3 6	67 7 0	...
	Singbhoom ...	.....	.....	.....	.....	113 6 5	.....	113 6 5	138 10 6	517 10 10	44 15 10	740 3 0	9 10 0	...
	Total ...	.....	.....	.....	.....	377 0 0	.....	377 0 0	168 11 4	517 10 10	2,817 10 7	3,548 3 9	77 1 0	...
	Grand Total ...	.....	.....	.....	4,971 12 3	1,543 14 10	563 3 8	2,107 2 6	363 1 4	647 10 10	14,425 14 0	9,684 3 9	386 0 3	...

Fort William,
The 30th September 1890.

ROAD FUND.

Committees for the First Quarter of the year 1890-91, *ending* 30*th June* 1890.

IPTS.

LANEOUS.			SUSPENSE.								
Miscellaneous.	Total.	Grant from Government.	Advance.	Deposits.	Total.	Total receipts.	Balance of impress in hands of Engineers and others, decreased.	Balance of unc'shed cheques, increased.	Total receipts, including balance.	Outlay.	Balance in treasury on 30th June 1890.
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
.....	.....	820 5 7	1,621 14 7	.....	1,621 14 7	5,072 6 5	.. ..	.....	11,087 13 5	4,108 0 0	7,979 13 5
0 4 0	2,736 0 0	97 3 2	1,738 0 8	.....	1,738 0 8	9,499 2 2	.....	.....	44,815 2 0	16,164 14 10	28,650 3 2
1 8 0	592 8 0	1,644 9 1	55 8 0	20 0 0	81 8 0	16,938 15 11	... ..	... ..	36,757 15 9	12,106 5 5	24,651 10 4
3 7 3	418 13 5	.....	184 1 9	1,100 0 0	1,284 1 9	5,686 9 10	1 10 9	... ..	29,120 6 7	8,601 0 6	20,519 6 1
5 3 3	3,746 5 5	2,562 1 10	3,599 9 0	1,126 0 0	4,725 9 0	37,197 2 4	1 10 9	. ...	1,22,381 5 9	40,980 4 9	81,401 1 0
7,342 15 2	7,342 15 2	.....	....	777 0 0	777 0 0	8,119 15 2	.....	.....	13,660 4 5	5,452 3 3	8,008 1 2
95 9 0	174 1 0	.....	648 0 0	.....	648 0 0	822 1 0	408 3 0	.....	18,505 4 8	7,051 3 9	11,454 0 11
279 8 0	280 8 0	...	... ..	10 0 0	10 0 0	291 1 6	... ..	.....	8,561 2 9	1,909 1 2	4,652 1 7
7,718 0 2	7,797 8 2	.....	648 0 0	787 0 0	1,435 0 0	9,233 1 8	408 3 0	.....	38,526 11 10	14,412 8 2	24,114 3 8
7,723 3 5	11,543 13 7	2,562 1 10	4,247 9 0	1,913 0 0	6,160 9 0	46,430 4 0	409 13 9	.....	1,60,908 1 7	55,392 12 11	1,05,515 4 8

DITURE.

WORKS.		IRRIGATION.	MISCELLANEOUS.				Contribution to Provincial Government.	SUSPENSE ACCOUNT.			Total expenditure.	Balance of imprest in hands of engineers and others, increased.	Balance of unc'shed cheques, decreased.	Total outlay.
Establishment of Divisional Superintendent of Works.	Total.	Canal toll establishment and contingencies.	Staging-bungalow establishment and contingencies.	Staging-bungalow petty construction and repairs.	Miscellaneous.	Total.		Advance.	Deposits.	Total.				
Rs.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.
.....	1,475 14 10	.....	.....	.....	.....	.....	...	1,370 0 0	.... ..	1,370 0 0	3,605 2 10	.....	502 13 2	4,108 0 0
.....	6,436 15 7	.....	37 12 0	.....	... ..	37 12 0	...	1,065 9 8	488 0 0	1,553 9 8	10,565 0 3	.....	5,599 14 7	16,164 14 10
.....	3,440 6 4	.....	61 0 0	2 0 0	31 8 0	94 8 0	...	237 8 0	1,341 4 1	1,578 12 1	7,031 13 7	... ..	4,474 7 10	12,106 5 5
.....	6,889 18 11	.....	.....	291 0 0	.....	291 0 0	...	248 0 0	150 0 0	398 0 0	8,601 0 6	.....	.....	8,601 0 6
.....	18,183 2 8	.....	98 12 0	293 0 0	31 8 0	423 4 0	...	2,921 1 8	1,979 4 1	4,900 5 9	30,403 1 2	.....	10,577 3 7	40,980 4 9
.....	1,505 13 9	.....	.....	.....	... ..	.....	..	....	300 0 0	300 0 0	1,855 10 2	.....	3,596 9 1	5,452 3 3
.....	4,141 14 9	.....	59 2 0	.....	.....	59 2 0	...	408 0 0	.....	408 0 0	4,858 14 9	.....	2,192 5 0	7,051 3 9
.....	1,312 12 8	.....	67 5 7	.....	2 14 0	70 3 7	...	200 0 0	80 0 0	280 0 0	1,999 1 2	....	.....	1,999 1 2
.....	6,960 9 2	.....	126 7 7	.....	2 14 0	129 5 7	...	608 0 0	380 0 0	988 0 0	8,623 10 1	.....	5,788 14 1	14,412 8 2
.....	25,143 11 10	.....	225 3 7	293 0 0	34 6 0	552 9 7	...	3,529 1 8	2,359 4 1	5,888 5 9	39,026 11 3	.....	16,366 1 8	55,392 12 11

C. R KIERNANDER,

Offg. Accountant-General, Bengal.

OUTTURN OF BHADOI CROPS, 1890.

THE following is published for general information.

REVENUE DEPT., AGRICULTURE,
CALCUTTA:
The 4th November 1890.

By order of the Lieut.-Govr. of Bengal,
P. NOLAN,
Secretary to the Govt. of Bengal.

Note on the Outturn of the Bhadoi Crops, 1890.

THE character of the rainfall during the past *bhadoi* season was described in the preliminary forecast of the winter rice crop. In the latter half of June, after the monsoon had set in, the fall was abnormally heavy in all parts of the Province During July and August it was again very heavy and continuous in North Bengal and North Behar, moderately heavy in South Behar, and nearly normal in Chutia Nagpur, but on the whole deficient in Orissa, South-West and Eastern Bengal, and especially in a tract in the south of the Province, including Singbhoom, Balasore, Midnapore, Hooghly, and the 24-Pergunnahs.

The excessive rain which fell in the latter half of June directly after the *bhadoi* crops had been sown, and also in July and August, seriously damaged these crops in South and North Behar, and to a less extent in the northern districts of Bengal. in Chittagong, Noakhally, Tipperah, Hooghly, Manbhoom, Pooree, and parts of Cuttack. The damage from this cause was greatest in South and North Behar. The loss from excessive rain was intensified by floods in some of the riparian tracts in which the winter rice crop also seriously suffered from this cause.

In Hooghly, Midnapore, Balasore, and parts of Cuttack the *bhadoi* crops are reported to have suffered to the extent of 4 annas, owing to deficiency of rain in July and August.

There are very few districts in Bengal in which the *bhadoi* crops have not suffered from one cause or another. and in most districts of Behar, in parts of Birbhoom, Khoolna, Moorshedabad, Jessore, Furreedpore. Hazaribagh, and Manbhoom the reported loss varies from 7 to 14 annas. Taking the Province as a whole, the outturn is not expected to be more than 10 annas

Names of districts and subdivisions.	Outturn of winter rice in annas.	Outturn of *bhadoi* crops in annas.	Remarks as to last year's stocks (*vide* final report of the wheat crops for 1889-90).
Khoolna	11	7	The produce of last year's food-grains was below the average. The district exports rice largely in ordinary years.
NUDDEA—			
Sudder	8	4	
Kushtea	10	8	
Meherpore	7	5	The produce of last year's food-grains was below the average.
Chuadanga	1	1	
Ranaghat	10	6	
JESSORE—			
Bongong	6	6	Dito. ditto.
Jhenidah	8	6	
MOORSHEDABAD—			
Sudder	12	4	Ditto ditto.
Lalbagh	10	6	
PATNA—			
Sudder	12	6	The produce of last year's food-grains was on the whole average. The *bhadoi* crops occupy about $\frac{1}{4}$th of the total cultivated area, and the winter rice less than half. The remainder is under *rabi* crops. The flooded areas will be available for *rabi* sowings. If these do well, as they are expected to do, there need be no apprehension of scarcity.
Dinapore	10	4	
MOZUFFERPORE—			
Sudder	10	6	The produce of last year's food-grains was below the average. The remarks with regard to Patna apply to this district.
Hajipore	10	6	
SARUN—			
Sudder	21	2	The produce of last year's food-grains was about the average. There will be undoubtedly distress among the poorer classes, especially in the Sudder subdivision, in spite of a good *rabi* harvest that may follow.
Sewan	10	4	
Gopalgunge	11	5	Last year's produce was below the average—*vide* remarks against Patna, which apply also here.
MONGHYR—			
Begusarai	8	5	

There is cause for watchfulness on the part of the authorities in the tracts above mentioned. especially in Nuddea, and in the Sudder sub-division of Nuddea and Sarun are of opinion that the Sudder and Chuadanga sub-divisions of scarcity in those districts.

In the flooded tracts of Behar there may be distress in the event of failure of the next *rabi* harvest, of which, however, there is at present no likelihood. Abundant rain having fallen over the whole Province in September, and good first-half of October, the prospects of the winter rice crop are assured.

M. FINUCANE,
Director of the Department of Land Records and Agriculture, Bengal.

The 30th October 1890.

I(a).—First forecast of bhadoi crops in Bengal

1	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
Burdwan	Sudder	1,242	993	139	111	130	Early paddy—Aus, kelash and nehali	10	12	The crops were partially affected by excess of rainfall at the sowing time and by floods before harvesting time.	
	Raneegunge	671	399	30	30	30	Aus paddy ... ... Biri kalai	13	15		
	Cutwa	352	265	33	22	32	Early paddy— Toroa ... ... Nehali ... ... Jhanti ... ... Kalai	8	12		
	Culna	432	350	100	80	101	Aus paddy	10	16		
	District Total	2,697	2,006	302	243	292		10½	14		
Bankoora	Sudder	1,921	670	45	45	45	Early paddy—Aus, kelash, tetko and chali.	14	16	Deficiency of rainfall in the month of Sraban (July-August) affected the crops of last year, where as in the current year the weather has been favourable from the beginning. A bumper crop is expected if the weather continues to be as favourable as it has been up to date.	In August the rainfall was much short of the normal (4·25 against 13·5), but it was quite sufficient for the bhadoi crops. Ditto ditto.
	Bishenpore	700	350	43	43	43	Aus and kelash paddy ...	16	20		
	District Total	2,621	1,020	88	88	88		15	18		
Beerbhoom	Sudder	1,108	777	173	173	157	Bhadoi paddy—Aus, bora ... ... Tora	16	20	The rainfall was sufficient and timely. More than an average crop is expected.	In the latter half of June and throughout July the rainfall was considerably in excess and incessant in the Sudder sub-division. In the Rampore Hat sub-division there was considerable excess in June, but in July the fall was nearly normal. Some damage is likely to have been caused by excess of rainfall in the Sudder sub-division.
	Rampore Hat	648	468	70	64	68	Bhadoi paddy—Aus, kalma ... Mahepal ... Bonous ... N. yali ... Bhoosa ...	15	20		
	District Total	1,756	1,245	243	237	225		More than 15	20		
Midnapore	Sudder	3,252	1,799·5	419	390	399	Aus paddy ... ... Til ... ... Jowar ... ... B.ri	13½	9 9 8 13	Deficiency of rainfall at harvesting time is the cause of short outturn.	In July and August taken together, the rainfall was deficient all over the district, particularly in the Sudder and Contai sub-divisions; the mean actual rainfall of the district during these two months having been 13·37 against 27·01 inches. In May the fall was nearly normal, and in June considerably in excess of the normal in all parts of the district; the deficiency of rainfall at the time of ploughing and sowing noticed against Contai is not borne out by rainfall records.
	Contai	881	713	68	69	58	Aus paddy ... ... Biri ... ... Til ... ... Hemp ... ... Jute	14½	14 12 16 14 14	Owing to the deficency of rainfall at the time of ploughing and sowing the bhadoi crops have suffered to some extent, and if there be no rainfall or excess of rainfall, the estimate will not be realized. The short rainfall in July and August greatly damaged the crops.	
	Tumlook	620	465	38	38	38	Aus paddy	15	10		
	Ghattal	366	228	22	22	22	Aus paddy ... ... Jhanji and guji amla ...	12	16		
	District total	5,119	3,205·5	547	519	517	.....	14	About 12		

1	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
HOOGHLY ...	Sudder	442	276·25	55·25	55·25	55·25	Aus paddy	6	8	The crop was affected by deficiency of rainfall.	
	Serampore	343	250	30·25	30·25	30·25	Ditto	12	12	There was some loss in consequence of deficient rainfall after sowing.	
	Jehanabad	438	262	87	87	87	Ditto	16	8	Owing to flood at sowing time the crop sustained a loss of 8 annas.	
	Oulooberiah	303	200	25	22	18	Aus and kalies paddy ...	18	14	Deficient rainfall retarded the cultivation. The plants are not thriving well.	
	Howrah	171	169	18	16	17·50	Aus paddy	14	16		
	District Total ...	1,697	1,097·25	215·50	210·50	208	.....	13	About 12		
24-PERGUNNAHS ...	Sudder	1,070	717	65	56	38	Aus paddy	15	14	There does not appear any noticeable difference in the outturn, but the floods which have lately visited the northern part of the Basirhat sub-division have injured the crops to some extent, full particulars of which will be given in the final forecast. As the rains set in early, more attention was paid to the cultivation of winter rice than bhadoi crops, and hence there has been a deficiency in the area of the cultivation of the latter.	
	Diamond Harbour ...	513	453	5	12	5	Ditto and boro paddy	14	12		
	Barasat	392	342	60	60	60	Ditto	10	12		
	Basirhat	530	492	45	70	45	Ditto and boro paddy	16	14		
	Barrackpore	42	12	2	2	2	Ditto	10	9		
	Dum-Dum	56	56	5	3	4	Ditto	12	12		
	District Total ...	2,603	1,900	182	203	154	.....	14	13		
KHOOLNA ...	Sudder	1,972·40	330	21	21	21	Aus boro, and kurmoni rice.	11	5	Three-fourths of the crop have been destroyed by floods.	
	Satkhira	1,372·32	449	40	40	40		8	8		
	Bagirhat	1,505·63	520	70	70	70		11	8	Half of the crop has been destroyed by floods.	
	District Total ...	4,849·92*	1,339	131	131	131	.....	10	7	Ditto ditto.	
NUDDEA	Sudder	701	464	291	291	291	Aus paddy	8	4	Indigo suffered for want of rain in the beginning, and it was injured by too much rain during manufacture. The winter sowing was largely injured by excessive rain in November last.	
							Jute				
							Indigo				
	Kushtea	588†	441†	330	209	220	Aus paddy	4	8		
							Jute				
							Indigo				
	Meherpore	427	320	440	440	440	Aus paddy	8	5	Ploughing and sowing were delayed to a certain extent in the beginning owing to drought, but the weather was very favourable afterwards, and the aus paddy grew into a fine crop. Before the harvest time it was greatly damaged by the heavy floods.	
							Jute	10	14		
							Indigo	16	14		
							Gama(?)	.....	14		
	Chuadanga	427	272	200	200	200	Aus paddy	6	1		
	Kumarkhali	427	256	192	192	192	Aus paddy	10	6		
							Jute	8	6		
							Indigo	12	8		
	District Total ...	2,720	1,953	1,453	1,332	1 343	.....	.....	.....		
JESSORE	Sudder	899	475	210	210	210	Aus paddy	12	12	Timely rainfall during the ploughing and sowing season gave satisfactory results.	
							Jute	16	16		
	Bongong	649	389	19	194	194	Aus paddy	14	6	The outturn of the year would have been 18 annas but for floods which, coming before the crop was fit for harvesting, submerged the crop, and destroyed more than 10 annas of it.	

Jessore	Jhenidah	475	317	60	60	60	Aus paddy	12	6	The early inundation has destroyed the greater part of the aus paddy, which was about to be harvested. In the 2nd forecast of jute 16 annas were shown to be the estimated outturn. But the early inundation has since destroyed about 3 annas of the crop. Hence the difference.		
							Jute	12	13			
	Narail	487	293	30	30	28	Aus paddy	8	6	The rainfall was normal at the time of ploughing and sowing and the crop in the field was very good. The sudden rise of water submerged both ripe and unripe aus crops and thus damaged them considerably.		
	Magurah	425	268	84	84	84	Aus paddy	6	8	The sowings were satisfactory as the rainfall was favourable, much damage was done by floods just before harvest.		
							Jute	12	14			
							Til	4	8			
							Indigo	13	6			
	District total ...	2,925	1,743	578	578	576	.....	11	9½			
Moorshedabad ...	Sudder	767	576	320	320	320	Aus paddy	8	8	Deficiency of rain at ploughing and sowing time caused late sowings. Floods caused most damage being early, and catching the crop which was late, on account of the sowings being late.		
	Lalbagh	372	223	74	74	74		8	8			
	Jungipore	508	406	120	120	120	Aus paddy					
							Shama	10	9			
							Kodo					
							Early paddy—					
							Sandhomain					
							Guni					
	Kandi	512	409	41	41	36	Tari	8	7			
							Chabiru					
							Jamra					
							Jhauti					
	District Total ...	2,159	1,614	555	555	550		9	7½			
Dinagepore ...	Sudder	4,118	2,600	200	200	200	Aus paddy	8½	18	Last year the estimated area under bhadoi crops was shown in the bhadoi forecast as 440, which I find on enquiry to be too large. There has been some loss by flood: but when the crop has been secured, it has been better than I anticipated, and the estimate of 18 annas, I think, is pretty correct.		
	Thakurgaon							6	18			
	Whole district ...	4,118	2,600	200	200	200		7	18			
Rajshahye ...	Sudder	944	583	273	249	273	Aus paddy	12	10½	Owing to the timely rainfall both at the ploughing and sowing seasons, the outturn this year is expected to be a good one, though early floods had greatly injured the crops.	In the latter half of June and in July the rainfall appears to have been excessive and continuous. The bhadoi crops probably suffered to a certain extent from this cause.	
							Jute	... ..	.....			
							Boro paddy	.....	14			
							Kaon	10	10			
	Nattore	617	612	153	213	200	Til (gingelly)	10	8			
							Kaon	7	8			
							Jute	8	14			
	Nowgong	603	500	250	250	250	Aus paddy	10	14			
							Jute	12	16			
							Aus paddy	16	14			
							Til (gingelly)	8	16			
							Kaon	8	12			
	District Total ...	2,364	1,700	676	712	723		11	13			
Rungpore ..	Sudder	1,151	900	290	290	290	Aus paddy	16	16	Some damage was done by the excessive rainfall of July, but on the whole a full average crop is expected.		
							Jute					
	Nelphamari	638	496	115	120	115	Aus paddy	14	14			
							Jute					
	Kurigram	937	700	400	400	380	Aus paddy	15	15			
							Jute					
	Gaibanda	760	580	440	230	235	Aus paddy	14	16			
							Jute					
	District Total ...	3,486	2,666	1,245	1,040	1,050	.....	15	15½			
Bogra	Whole district ..	1,452	913	247	252	247	Aus	13	14	Plenteous rain fell during the spring enabling the ryots to get on well with their ploughing There has been a slight loss of jute and a rather greater loss of aus through floods in the south and east of the district.		
				53	48	55	Jute	10	18			
		1,452	913	300	300	302						

* This includes Sunderbuns, 2,772·91 square miles appertaining to this district.
† During the current year Chur Murchadear having an area of about 30 square miles was transferred from Rajshahye district to Kushtea sub-division: hence the increase.

1	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
Pubna	Pubna	1,847	1,462	536	666	496	Aus	7	11	Rainfall was favourable both at the ploughing and sowing times, but high floods damaged the crops at harvesting time, especially in the Sudder sub-division.	
	Serajgunge						Jute	13	16		
Darjeeling ...	Sudder, including Kalimpong.	726	92	47	45	47	Maize paddy	13	12	Owing to the very heavy and incessant rains after sowing it is feared that the yeld will not be a good one.	
							Marua				
							Kaon				
							Fafar(?)				
	Kurseong	185	Very little ; about 8 acres or ·01 square mile only				Paddy	12	12	Excessive rainfall from the very beginning of the season was a great obstacle to the full growth and development of the plants ; consequently the outturn is much less than the average.	Maize, marua and potatoes are known to be grown in the hills within the jurisdiction of Kurseong. The area under these crops is evidently left out in estimating the total area under cultivation.
							Jute				
	Siliguoree	253	180	85	100	100	Paddy	15	10		
							Marua				
							Maize				
	District Total ...	1,164	272*	132	145	147		More than 13	About 12		
Julpigoree ...	Bykantpore	447	298	138	138	138	Early paddy—				
							Shoni	12	14	Owing to good fall of rain the outturn of bhadoi rice will be better than that of last year ; but excessive rainfall has affected the jute crop to some extent.	
							Jomira				
							Ju e	12	8		
	Boda	402·72	295	85	85	90	Betri paddy	7	14		
							Jute	10	11		
	Patgram	86·88	75	18	18	20	Betri paddy	10	14		
							Jute	10	11		
	Mynaguri	524	219	62	54	78	Aus paddy	12	14		
							Jute	12	12		
	Alipore*	649*	209	30	25	30	Early paddy—				
							Kaladamra	11	12	The figures in column 3 against Alipore and Falakotta will not tally with the figures of last year, *vide* corection slip to census pamphlet.	
							Dhaiadamra				
							Kanaibasi				
							Jute	8	10		
	Fallakota	496†	170	20	20	20	Early paddy—				
							Nilpai	8	12	The Sub-divisional Officer of Alipore says that he cannot reconcile the figures of column 6 with the area under bhadoi crops shown in the last year's return. The figures of column 6 as now shown are said to be correct.	
							Maisara				
							Sesapol				
							Jute	16	12		
	Bhalka	132	44	·5	·5	·3	Early paddy—				
							Maldai	12	12		
							Jute	12	14		
	District Total ...	2,737·60	1,301	353·5	340·5	376·3		11	12		
Dacca	Sudder	1,266	633	211	211	211	Early paddy, viz.—				
							Gorfa				
							Moochakani				
							Shail				
							Kalamanick	14	12	The unusual rise of the rivers has affected every crop, especially the sugarcane.	
							Poranghi				
							Sharta				
							Kalathore				
							Pankaich				
							Jute	14	14		
							Grass	16	16		
							Sugarcane	11	8		
	Maniekgunge	469	336	46	46	46	Early paddy, viz.—				
							Kalamanick				
							Poranghi				
							Shaita	10	6	The prospects of aus paddy this year were much better than last year, but the extraordinary high flood of the current year damaged the crops a good deal.	
							Gareswar				
							Karchamari				
							Sandhamalier				

	Munshigunge	401	209	109	80	100	Jute	12	14	The crops have been affected by unusual rise of water.
							Aus paddy ...	16	16	
							Digher paddy	16	12	
							Grass	16	14	
							Sugarcane	14	4	
							Early paddy, viz.—			
							Boaljari			
							Saita			
							Alechahya			
							Maisluma			
	Naraingunge	641	350	80	80	500	Sarauful	12	10	Deficiency of rain at sowing time, excess of rain at harvesting time, and floods affected this crop.
							Kaminisail			
							Kataktara			
							Gharmora			
							Chuman			
							Tengair			
	District total ...	2,797	1,549	437	417	437	... ...	.....	11	
	Sudder	860	602	86	54	54	Early paddy—			
	Madaripore ...	979	652	64	64	64	Aus, boro, asni, dogha	8	8	
							Ditto	8	10	
FURREEDPORE ...							Early paddy—			
							Paranghi			
							Karchamuri			The crop was affected by flood at the harvesting time.
							Gareswar			
							Kedachak			
							Kumrail			
	Goalundo ...	428	321	142	142	142	Pakhiraj	7	8	
							Binnaful			
							Satia			
							Lakhijata			
							Kaijuri			
							Sada			
	District Total ...	2,267	1,575	293	260	260		About 8	8½	
	Sudder	1,111	698	129	109	129	Aus	12	14	
BACKERGUNGE ...	Perozepore	692	500	90	90	90	Aus	12	14	The sudden rise of water and incursions of insects have to a certain extent injured the bhadoi crops.
	Patuakhali	1,231	560	46‡	46‡	44‡	Aus	14	16	
	Bhola	615	400	70‡	80‡	70‡	Aus	16	16	
	District Total ...	3,649	2,098	335	325	335		13½	15	
							Early paddy—			
							Hapa			
							Boalia			
	Sudder	1,849	1,070	370	270	370	Boron	16	14	Two-annas has been lost owing to excessive rain during the sowing time and also owing to the early rise of the river with high floods.
							Baiam			
							Gayal			
							Bhadari, &c. ...			
	Tangail	1,041	780·75	295	293	295	Aus paddy ...	10	12	The yield of the aus crop was fair in spite of the early high rise of the rivers.
							Early paddy—			
							Chitri			
							Gayal			
MYMENSINGH ...							Balaram			
	Jamalpore	1,244	930	277	277	277	Baran	12	12	Four-annas lost on account of excessive rain at the sowing season.
							Daria			
							Jabarshail			
							Suparna kharika, &c. ..			
							Early paddy			
	Netrokona	1,389	694	105	105	105	Bori			
							Boalia	12	16	The outturn of bhadoi crop is expected to be more than the average; but some damage having been caused by heavy rain at the harvesting time, the outturn has been estimated to be 16 annas.
							Bhadua			
							Gayal, &c.			
	Keshoregunge	744	350	100	80	90	Aus paddy	12	12	Early rise of water in May caused considerable damage to aus crop sown in low lands.
	District Total ..	6,267	3,824·75	1,147	1,025	1,137		12¾	13	

* The total area estimated to be under cultivation (272 square miles) excludes the area under tea.

‡ These are the figures now given by the Sub-divisional Officers. They seem to be incorrect, and special reports have been called for, but until the reports are received the figures cannot be altered with any certainty. Probably the figures given last year are much nearer the mark.

1	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal
								Annas.	Annas.		
TIPPERAH ...	Sudder	1,142	856·5	171·3	171·3	171·3	Early paddy— Kasmin shail ... ... Kali do. ... ... Dhali do. ... ... Kacholani ... ... Bailam ... ... Muri	14	12	Owing to excessive rain and inundation the crops were partially damaged in some places at the harvesting time.	
	Brahmanberia... ...	769	553·68	138·42	138·42	138·42	Early paddy— Jeto jali ... ... Asari do.	18	12	Frequent rains during the time of sowing and weeding reduced the yield.	
	Chandpore	580	415	60	60	60	Satia do. .. .. Aus paddy	16	14	Unusual rise of water reduced the yield.	
	District Total ...	2,491	1,825·18	369·72	369·72	369·72		16	About 13		
NOAKHALLY ...	Sudder	1,298	798	238	244	238	Early paddy— Sholoi ... . Green ... . Bailam ... ... Sultanbhoog ... ... Shatia ... . Kalimooga ... ... Harali	15	10	Excessive rain in March while sowing was going on, and in July and August while the crops were being cut and harvested, affected the outturn.	
	Feuny	343	257	85	85	85	Early paddy— Chegual ... . Sholoi ... ... Sna ia ... ... Boalam ... . Bhadori	12	12	The crop has been damaged by excess rain, flood and insects, to the extent of 4 annas.	
	District Total ...	1,641	1,055	323	329	323		13½	11		
CHITTAGONG ...	Sudder	1,630	611·25	152·8	152·8	115	Early paddy— Bailam ... ... Chiknai ... ... Khaia ... ... Shaitha	18	12	Heavy rainfall in June and July affected the crop injuriously. My estimate of last year's outturn in my general administration report I have since ascertained was too low.	The cause for the decrease in the area sown this year as compared with the normal area under bhadoi crops is not shown.
	Cox's Bazar	937	654·78	20·15	20·15	20·15	Early paddy ... ... Pana paddy .. ... Khaia	18	16	Last year the bhadoi crops were grown and harvested under very favourable circumstances. The crop this year is expected to come up to the average outturn of 16 annas.	To judge from the rainfall records there was no excess of rain in the Chittagong district in June; the recorded fall in this month was short of the normal at every station, except Cox's Bazar, where the excess amounted to only 1 inch. At Chittagong, the deficiency was nearly 6 inches, and the number of rainy days fewer in the month. In July the fall was excessive, being 49·23 against 28·52 inches.
	District Total ...	2,567	1,266·03	172·95	172·95	135·15	.....	18	14		

CHITTAGONG HILL TRACTS.	Sudder	3,383·5	43·25	36	37·45	35·50	Jum paddy Cotton		10 6	10 8	In many cases jum cutting this year was retarded as the hill-people were engaged in cooly work. Consequently almost all jums cut later were not sufficiently burnt. This has affected the outturn to some extent. Incessant rain too throughout the season has washed away the earth from the roots of the plants and promoted weeds. These causes have reduced the outturn to a great extent.	The Commissioner thinks that the area under the crops is under estimated. He estimates the probable outturn of cotton at more than 8 annas. Last year the Commissioner estimated the outturn of jum paddy at 14 annas, although the Deputy Commissioner's estimate was 10 annas.
	Sungoo	1,835·5	23·86	18	18·76	18·5	Jum paddy Cotton		10 6	10 8		
	District Total	5,419	67·11	54	56·21	54	Jum paddy Cotton		10 6	10 8		
PATNA	Sudder	617	457	62	62	60	Maize Marua Maize		15	2	The poor outturn is due to flood and excessive rain throughout the season.	In the latter half of June and in July the rainfall was very heavy and incessant in the Patna district excepting Barh where the excess was not appreciable.
	Dinapore	143	(a)118	30	30	25	Kodo Paddy Marua		7½	4	The excessive rainfall throughout the season and high floods at harvesting time caused great injury to the crops.	
	Barh	526	(a)495	70	(a)80	65	Maize Marua Kodo Janera Jowar Marua		10	4	Floods destroyed the crops when the plants had grown and were thriving.	
	Behar	793	575	194	(a)194	194	Maize Kodo Kaon		15	2	The crops were damaged by excess of rain during the sowing time.	
	District Total	2,079	1,555	356	372	344			12	3		
GYA	Sudder	1,839	1,434	143	143	172	Marwa Maize Bhiragi pulse		16	2	Excess of rain and floods after sowing season caused the decrease of outturn. Favourable rain at the ploughing and sowing time raised hopes, and the sugarcane fields were brought under bhadoi. The approximate increase in area is estimated at one-fifth more than that of last year.	
	Arungabad	1,246	747	37	40	25	Maize Marua Kodo Urid pulse Barai pulse Sathi paddy		14	4	The excessive and almost continuous rainfall of the present season interfered with every operation connected with the cultivation of bhadoi.	
	Jehanabad	607	503	50	50	30	Maize Marua Sathi paddy		16 16 16	2 3 2	The large decrease in the bhadoi crops is due to the excess of rain from the very beginning of the year and of flood water in most part of this sub-division.	
	Nawada	1,020	765	106	100	80·5	Maize Marua Tanguni Sathi paddy Sama		14	4	Owing to the incessant rainfall the bhadoi crops have been much injured. The figures for the last year have been revised, those now supplied being more trustworthy.	
	District Total	4,712	3,449	336	233	307·5			15½	3		
SHAHABAD	Arrah	915	778	129	75·75	43·5	Serha paddy Sathi paddy Marua Maize Sama Kodo Cheena Urid Til Tangun		8	2	Excessive rain at the ploughing as well as at sowing time has kept some of the fields of bhadoi crops from being brought under bhadoi cultivation.	

(a)—These figures differ from those shown in last year's return. They have since been correctly ascertained and supplied by the Sub-divisional Officer.

1	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
Shahabad—*concld.*	Buxar	656	563	83	83	3	Serha paddy ... ... Sathi paddy ... ... Marua ... ... Sama ... ... Bajra ... ... Tangun millet ... ... Janera ... ... Kodo ... ... Urid ... ... Til	12	2	The excessive rainfall has made the prospect of the bhadoi crop hopeless. The fields being under water, both seed and plants have rotted.	
	Bhabua	1,301	976	122	120	115	Serha paddy ... ... Sathi paddy ... ... Sama ... ... Marua ... ... Maize	18	2	The crops were affected by excessive rainfall at the time of sowing as well as afterwards.	
	Sasseram	1,493	850	87	78	68	Serha paddy ... ... Sathi paddy ... ... Sama ... ... Maize ... ... Tangun millet	14	4	The deficiency in the outturn is due to excess of rain water at the time of sowing, and subsequently the crops suffered a good deal from floods in low lands and excessive and constant rain.	
	District Total ...	4,365	3,167	421	356·75	309·5		13	2¼		
Durbhunga ...	Sudder	1,222	929	292	300	302	Marua ... ... Maize ... ... Gamri paddy ... ... Shama ... ... Kaon	18	12		
	Tajpore	764	611	336	400	318	Maize ... ... Marua ... ... Sama	18	18	The bhadoi crops were sown under most favourable circumstances, but excessive rainfall and floods afterwards affected the outturn.	In the latter half of June, in July and August, the rainfall was very excessive in all parts of the district. In Tajpore only the fall in August was nearly normal; 18 annas in the subdivision appears to be an overestimate, and is inconsistent with the Collector's remarks.
	Madhubani	1,349	1,025	450	350	400	Maize ... ... Marua ... ... Gamri paddy ... ... Kodo ... ... Sama ... ... Kaon	14 to 18	10		
	District Total ...	3,335	2,565	1,078	1,050	1,020		About 17	About 13		
	Muzufferpore	1,218	957·83	265·57	265·57	265·57	Maize ... ... Marua ... ... Urid ... ... Kodo ... ... Kaon ... ... Sama ... ... Cheena ... ... Janera (jowar)	6	6		

MOZUFFERPORE ...	Hajeepore	771	529·6	308·4	308·4	308·4	Maize	12	6	Excessive rainfall and floods very seriously affected the outturn of the bhadoi crops, especially in the Mozufferpore and Hajeepore sub-divisions. The area cultivated was the same as in the past year, but a large proportion of the crops has been lost in many places.
							Marua	10		
							Sama	10		
							Kodo	10		
							Kaon	8		
							Urid	10		
							Cheena	10		
							Janera (jowar)	5		
	Sitamarhi	1,014	770·64	300	289	300	Maize	16	10	
							Marua			
							Gauri paddy			
							Aus paddy			
							Kodo			
							Kaon			
							Sama			
	District Total ...	3,003	2,257·24	873·97	862·97	873 97		More than 10	Over 7	
	Sudder	998	849	291	291	291	Maize	10	2	The weather was favourable at ploughing and sowing time, but the crops were subsequently damaged by heavy and continuous rainfall and floods.
							Marua			
							Sama			
							Sathi paddy			
							Kodo			
							Tanguni millet			
							Cheena			
							Urid pulse			
							Bajra			
SARUN	Sewan	853	693	145	145	125	Maize	10	4	In consequence of excessive rainfall at sowing time the bhadoi crops were much affected. The south-west part of the sub-division was entirely inundated by floods which swept away all the crops.
							Sama			
							Tanguni			
							Marua			
							Sathi paddy			
							Kodo			
							Mysori			
							Bajra			
	Gopalgunge	771	581	300	249	297	Maize	14	5	The crops were very much injured by excessive rainfall at the end of July and beginning of August.
							Marua			
							Sama			
							Tanguni			
							Cheena			
							Urid			
							Bajra			
							Jowar			
							Paddy			
	District Total ...	2,622	2,123	736	685	713		.....	4	
CHUMPARUN ...	Motihari	1,519	1,022	662*	662	662	Saro and bhandh paddy ...	10	12	The outturn of the bhadoi crops this year will be below what it was last year in consequence of the damage caused by the heavy rains and floods in the months of July and August.
							Maize		4	
							Marua		8	
							Kodo		8	
							Sama		8	
							Tangun		8	
							Urid pulse		8	
	Bettiah	2,013	1,200	500	500	500	Maize	12	8	Excessive rainfall in July and August damaged the maize and paddy on low lands.
							Marua			
							Bhandh and saro paddy ...			
							Kodo			
	District Total ...	3,531	2,222	1,162	1,162	1,162		11	8	

* This area is twice cropped, being sown with bhadoi and rabbi in succession.

1.	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
Lohardugga	Sudder	7,784	1,662	216	274	224	Maize, Gondli, Gora paddy, Urid pulse, Barai, Marua, Biri pulse	13	14	No damage was done to the crops by excessive rain.	In the Sudder sub-division the excess was nominal.
	Palamow	4,260	2,000	400	426	400	Maize, Sama, Marua, Kodo, Urid, Gondli	16	14	Excess of rain just after sowing time destroyed the seedling to a certain extent.	
	District Total	12,044	3,662	616	700	624		More than 14	14		
Manbhoom	Sudder	3,344	1,300	150	120	150	Gora paddy, Maize, Kodo, Gondli, Kheri pulse, Biri pulse	18 / 16	16 / 8 / 12 / 12 / 12 / 18		
	Gobindapur	803	300	40	29	40	Maize, Marua, Kodo, Gondli, Kheri pulse, Biri pulse	12 / 16	6 / 12 / 12 / 12 / 8 / 12	Excess of rainfall between sowing and harvesting time has injured the crops.	
	District Total	4,147	1,600	190	149	190		About 16	About 12		
Singbhoom	Kolhan	1,946	973	450	439	400	Aus paddy, Maize, Gondli, Sama, Kodo, Marua	18	20		
	Porahat	660	247	61	61	50	Aus paddy, Til (gingelly), Urid pulse	15	20	There being sufficient rain, the yield has been a bumper one. Owing to the deficiency of rainfall at sowing time, bhadoi was not sown over as large an area as usual.	
	Dhalbhoom	1,147	573	143	143	120	Aus paddy, Maize, Til (gingelly), Mooug pulse, Kaon	18	20		
	District Total	3,753	1,793	654	654	570		17	20		
	Total for all Bengal	152,840·51	86,574·88	24,650·14	22,906·83	22,892·39		10	10		

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*226,717	*2,85,069 1 0	16,85,132 10	4,94,933 5 0	15,721 6 0	7,95,723 12 0	70,561½	72,322	142,883½
Or per mile of railway	.....	186 13 11	.....	324 7 0	10 4 11	521 9 10	.....	.....	.....
For previous 17 weeks of half-year	3,783,582	38,89,927 4 0	3,14,35,006 30	71,44,939 8 6	2,75,334 0 8	1,13,10,200 13 2	1,073,005½	1,289,158½	2,362,765½
Total for 18 weeks ...	* 4,010,299	41,74,996 5 0	3,31,20,139 0	76,39,872 13 6	2,91,055 6 8	1,21,05,924 9 2	1,144,123	1,361,481½	2,505,603½
Comparison.									
Total for corresponding week of previous year	258,183½	3,30,246 5 10	18,52,089 10	4,75,136 15 0	19,998 11 4	8,25,382 0 11	67,842	72,605	140,447
Per mile of railway corresponding week of previous year ...	.....	216 7 9	.....	311 7 5	13 1 9	541 0 11	.....	.....	.....
Total to corresponding date of previous year	4,279,593½	45,20,792 1 3	3,73,37,383 30	81,00,211 12 3	3,04,658 12 2	1,29,25,662 9 8	1,173,771	1,433,730	2,607,501

* The falling off in coaching traffic is chiefly in 3rd class passengers booked from N.-W., O. & R. and B. B. & C. I. Rys.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd November 1889.			Receipts for week ending 1st November 1890.			Total receipts from 1st April 1889 to 2nd November 1889.			Total receipts from 1st April 1890 to 1st November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	8,25,382	541	1,525½	7,95,724	522	1,525½	2,49,52,414	523	1,525½	2,32,24,855	491	.....	17,27,559

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	9,885	5,501 7 0	40,460 30	2,759 10 0	23 8 0	8,284 9 0	1,937	457	2,394
Or per mile of railway ...	173	96 2 10	707 20	48 3 11	0 6 7	144 13 4	.....	.....	.....
For previous 17 weeks of half-year	198,592	1,18,793 1 0	5,20,749 30	35,340 10 0	578 7 0	1,54,712 2 0	22,032½	9,106	31,138½
Total for 18 weeks ...	208,477	1,24,294 8 0	5,70,210 20	38,100 4 0	601 15 0	1,62,996 11 0	23,969½	9,563	33,533½
Comparison.									
Total for corresponding week of previous year	12,392	6,804 12 4	39,187 10	2,176 5 0	46 10 9	9,027 12 1	1,909	955	2,864
Per mile of railway corresponding week of previous year ...	215	118 15 5	684 30	38 0 9	0 13 1	157 13 3	.....	.....	.....
Total to corresponding date of previous year	245,557	1,38,370 15 0	8,20,055 30	39,025 15 0	745 15 3	1,79,042 13 3	26,891	13,268	40,159

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd November 1889.			Receipts for week ending 1st November 1890.			Total receipts from 1st April 1889 to 2nd November 1889.			Total receipts from 1st April 1890 to 1st November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	9,093	158	57½	8,385	145	57½	2,93,039	165	57½	2,89,742	163	.....	3,297

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 22¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,700	4,678 11 0	16,487 0	584 13 0	6 2 6	5,269 10 0	893	53	946
Or per mile of railway	.....	210 4 5	.....	26 4 7	0 4 5	236 13 5	.....	.....	.....
For previous 17 weeks of half-year	272,047	66,098 6 0	92,292 20	3,755 9 0	88 2 0	69,942 1 0	15,363	785	16,148
Total for 18 weeks ...	290,747	70,777 1 0	1,08,779 20	4,340 6 0	94 4 0	75,211 11 0	16,256	838	17,094
Comparison.									
Total for corresponding week of previous year	20,749	5,190 9 2	20,455 20	410 6 0	7 3 6	5,608 2 8	908	135	1,043
Per mile of railway corresponding week of previous year ...	.....	233 4 7	.....	18 7 1	0 5 2	252 0 10	.....	.....	.....
Total to corresponding date of previous year	318,993	77,359 14 4	1,62,099 10	4,212 8 0	103 10 3	81,676 0 7	16,585	1,250	17,835

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 2nd November 1889.			Receipts for week ending 1st November 1890.			Total receipts from 1st April 1889 to 2nd November 1889.			Total receipts from 1st April 1890 to 1st November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22¼	5,608	252	22¼	5,270	237	22¼	1,64,313	238	22¼	1,60,060	232	.....	4,253

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K.-D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 18th October 1890, on 763 miles open

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	126,752	73,480 0 0	5,73,633 0	1,42,500 0 0	14,850 0 0	2,30,830 0 0	22,402	32,945	55,347
Or per mile of railway	166	96 0 0	752 0	187 0 0	†2 0 0	285 0 0	.....	.....	.....
For previous 15 weeks of half-year	2,066,928	8,57,149 0 0	86,34,407 0	21,53,285 0 0	2,23,472 0 0	*32,33,906 0 0	321,845	490,108	811,953
Total for 16 weeks ...	2,193,680	9,30,629 0 0	91,98,130 0	22,95,845 0 0	2,38,322 0 0	34,64,796 0 0	344,247	523,053	867,300
Comparison.									
Total for corresponding week of previous year	123,478	63,101 0 0	5,63,206 0	1,55,181 0 0	14,999 0 0	2,33,281 0 0	22,998	32,131	55,129
Per mile of railway corresponding period of previous year ...	165	84 0 0	754 0	208 0 0	†2 0 0	294 0 0	.....	.....	.....
Total to corresponding date of previous year	2,213,550	9,59,033 0 0	1,00,92,372 0	24,27,428 0 0	2,48,600 0 0	36,35,061 0 0	360,444	501,951	862,395

* Audited up to week ending 30th August 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 19th October 1889.			Receipts for week ending 18th October 1890.			Total receipts from 1st April 1889 to 19th October 1889.			Total receipts from 1st April 1890 to 18th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
742	2,33,281	312	763	2,30,890	303	714	57,76,503	279	759	*58,47,454	206	76,951	.....

* Audited up to week ending 30th August 1890

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D. AND ASSAM-BEHAR SECTIONS).

Approximate Return of Traffic for week ended 25th October 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	135,907	65,440 0 0	5,65,103 0	1,53,980 0 0	11,170 0 0	2,30,590 0 0	22,350	32,574	54,924
Or per mile of railway	178	86 0 0	741 0	202 0 0	†1 0 0	289 0 0	.....	.....	.....
For previous 16 weeks of half-year	2,193,680	9,30,629 0 0	91,98,130 0	22,95,845 0 0	2,38,322 0 0	*34,64,796 0 0	344,247	523,053	867,300
Total for 17 weeks ...	2,329,587	9,96,069 0 0	97,63,233 0	24,49,825 0 0	2,49, 92 0 0	36,95,386 0 0	366 597	555,627	922,224
COMPARISON.									
Total for corresponding week of previous year	111,238	61,166 0 0	5,76,018 0	1,06,456 0 0	16,204 0 0	2,43,826 0 0	22,832	34,822	57,654
Per mile of railway corresponding period of previous year .	140	82 0 0	772 0	223 0 0	†2 0 0	307 0 0	.....	.....	.....
Total to corresponding date of previous year	2,324,788	10,20,199 0 0	1,06,68,990 0	25,03,884 0 0	2,64,804 0 0	38,78,887 0 0	383,276	536,773	920,049

* Audited up to week ending 30th August 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 26TH OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 25TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 26TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 25TH OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,43,826	326	763	2,30,590	302	715	60,14,329	280	759	*60,78,044	267	63,715	.....

* Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	22,789	10,360 0 0	50,000 0	4,990 0 0	80 0 0	15,730 0 0	3,668	2,000	5,668
Per mile of railway	182	83 0 0	405 0	40 0 0	1 0 0	126 0 0	..	.....	.....
previous 16 weeks of half-year	377,659	1,16,389 0 0	5,98,031 0	48,267 0 0	2,538 0 0	1,67,194 0 0	53,311	30,892	84,203
Total for 16 weeks ...	400,448	1,27,049 0 0	6,48,031 0	53,257 0 0	2,618 0 0	1,82,924 0 0	56,979	32,892	89,871
COMPARISON.									
al for corresponding week of previous year	21,539	8,384 0 0	35,682 0	3,552 0 0	27 0 0	11,963 0 0	3,687	1,985	5,672
mile of railway correspond-ng period of previous year ...	172	67 0 0	285 0	29 0 0	.. ..	96 0 0	..	.....	.....
al to corresponding date of revious year	434,098	1,45,302 0 0	10,33,583 0	99,603 0 0	2,740 0 0	2,47,705 0 0	56,421	40,763	97,184

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

ICEIPTS FOR WEEK ENDING 19TH OCTOBER 1889.			RECEIPTS FOR WEEK ENDING 18TH OCTOBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 19TH OCTOBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 18TH OCTOBER 1890.			Total increase in 1890.	Total decrease in 1890.
ean eage ked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	11,963	96	125	15,730	126	125	4,27,552	118	125	*3,48,432	96	.....	79,120

* Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	25,756	8,000 0 0	33,644 0	3,330 0 0	60 0 0	11,390 0 0	3,660	1,992	5,(
Or per mile of railway	204	64 0 0	269 0	27 0 0	91 0 0	.....	.....	.....	.....
For previous 16 weeks of half-year	400,448	1,27,049 0 0	6,48,631 0	53,257 0 0	2,618 0 0	1,82,924 0 0	56,979	23,891	89,(
Total for 17 weeks ...	426,004	1,35,049 0 0	6,82,275 0	56,587 0 0	2,678 0 0	1,94,314 0 0	60,639	24,884	95,(
COMPARISON.									
Total for corresponding week of previous year	18,332	7,534 0 0	29,479 0	2,395 0 0	54 0 0	9,983 0 0	3,587	2,065	5,(
Per mile of railway corresponding week of previous year ...	147	60 0 0	236 0	19 0 0	1 0 0	80 0 0	.....	.....	.....
Total to corresponding date of previous year	453,330	1,52,836 0 0	10,03,062 0	1,02,058 0 0	2,794 0 0	2,57,688 0 0	60,008	42,843	1,02,(

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 26th October 1889			Receipts for week ending 25th October 1890.			Total Receipts from 1st April 1889 to 26th October 1889.			Total Receipts from 1st April 1890 to 25th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	9,983	80	125	11,390	91	125	4,37,535	117	125	* 3,59,822	96	.....	77,713

* Audited up to week ending 30th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,955	6,180 0 0	27,513 0	2,470 0 0	180 0 0	8,830 0 0	2,410	694	3,(
Or per mile of railway	186	72 0 0	318 0	29 0 0	2 0 0	103 0 0	.....	.....	.....
For previous 15 weeks of half-year	227,113	71,529 0 0	2,22,756 0	19,039 0 0	4,196 0 0	94,764 0 0	35,551	10,681	46,(
Total for 16 weeks ...	243,068	77,709 0 0	2,50,269 0	21,509 0 0	4,376 0 0	1,03,594 0 0	37,961	11,375	49,(
COMPARISON.									
Total for corresponding week of previous year	13,394	4,906 0 0	21,752 0	2,027 0 0	101 0 0	7,034 0 0	2,513	828	3,(
Per mile of railway corresponding period of previous year	156	57 0 0	253 0	24 0 0	1 0 0	82 0 0	.....	.....	.....
Total to corresponding date of previous year	232,481	73,553 0 0	3,52,314 0	26,360 0 0	3,349 0 0	1,03,262 0 0	39,918	14,396	54,(

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 19th October 1889.			Receipts for week ending 18th October 1890.			Total Receipts from 1st April 1889 to 19th October 1889.			Total Receipts from 1st April 1890 to 18th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,034	82	86	8,839	103	86	1,77,541	91	86	*1,85,455	74	7,914	.....

* Audited up to week ending 30th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,397	3,610 0 0	24,187 0	1,880 0 0	60 0 0	5,550 0 0	2,410	694	3,104
Or per mile of railway	121	42 0 0	281 0	22 0 0	1 0 0	65 0 0	.....	.....	.....
For previous 16 weeks of half-year	243,068	77,709 0 0	250,069 0	21,509 0 0	4,376 0 0	*1,03,594 0 0	37,961	11,375	49,336
Total for 17 weeks	253,465	81,319 0 0	274,256 0	23,389 0 0	4,436 0 0	1,09,144 0 0	40,371	12,069	52,440
Comparison.									
Total for corresponding week of previous year	12,919	4,757 0 0	26,441 0	2,749 0 0	386 0 0	7,892 0 0	2,521	715	3,236
Per mile of railway corresponding period of previous year...	150	55 0 0	307 0	32 0 0	5 0 0	92 0 0	.....	.....	.....
Total to corresponding date of previous year	245,400	78,310 0 0	378,755 0	29,109 0 0	3,735 0 0	1,11,154 0 0	42,439	15,041	57,180

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway

Receipts for week ending 26th October 1889.			Receipts for week ending 25th October 1890.			Total receipts from 1st April 1889 to 26th October 1889.			Total receipts from 1st April 1890 to 25th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,892	92	86	5,550	65	86	1,85,433	72	86	*1,91,005	74	5,572	.....

* Audited up to week ending 30th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890. on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	4,069	1,500 0 0	9,556 0	530 0 0	20 0 0	2,050 0 0	580	170	750
Or per mile of railway ...	149	55 0 0	351 0	19 0 0	1 0 0	75 0 0	.....	.....	.....
For previous 15 weeks of half-year	42,917	15,026 0 0	1,50,518 0	8,314 0 0	229 0 0	*23,649 0 0	8,172	5,384	13,556
Total for 16 weeks ...	46,986	16,526 0 0	1,60,074 0	8,744 0 0	249 0 0	25,519 0 0	8,752	5,554	14,306
Comparison.									
Total for corresponding week of previous year	4,420	1,505 0 0	2,808 0	209 0 0	49 0 0	1,763 0 0	586	340	926
Per mile of railway corresponding period of previous year ...	162	55 0 0	103 0	8 0 0	2 0 0	65 0 0	.....	.....	.....
Total to corresponding date of previous year	49,247	17,978 0 0	1,40,296 0	9,237 0 0	1,344 0 0	28,559 0 0	9,226	5,812	15,038

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 19th October 1889.			Receipts for week ending 18th October 1890.			Total receipts from 1st April 1889 to 19th October 1889			Total receipts from 1st April 1890 to 18th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,763	65	27¼	2,050	75	27¼	36,138	69	27¼	*21,531	65	.....	2,607

* Audited up to week ending 30th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, *on* 27½ *miles open*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week ...	2,761	1,070	16,195	840	10	1,920	500	250	750
Or per mile of railway ...	101	39	594	31	.....	70	.....	.....	.....
For previous 16 weeks of half-year	46,986	16,526	1,60,074	8,744	249	*25,519	8,752	5,554	14,306
Total for 17 weeks ...	49,747	17,596	1,76,269	9,584	259	27,439	9,252	5,804	15,056
Comparison.									
Total for corresponding week of previous year	2,956	1,064	8,907	611	11	1,686	586	412	998
Per mile of railway corresponding period of previous year ...	108	39	327	22	1	62	.....	.....	.....
Total to corresponding date of previous year	52,203	19,042	1,49,203	9,848	1,355	30,245	9,812	6,224	16,036

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 26th October 1889.			Receipts for week ending 25th October 1890.			Total receipts from 1st April 1889 to 26th October 1889.			Total receipts from 1st April 1890 to 25th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
27½	1,086	63	27½	1,920	70	27½	55,824	68	27½	* 53,461	65	.....	2

* Audited up to week ending 30th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

Combined System.

Approximate Return of Traffic for week ended 25th October 1890, *on* 691 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open) ...	68,660	23,390	2,99,840	40,430	7,330	74,150	12,976	12,645	25,621
Or per mile of railway ...	99·36	33·19	433·92	58·51	10·01	107·31	.....	...	.....
For previous 15 weeks of half-year	1,152,650	4,44,309	38,36,354	4,71,850	1,00,837	10,16,096	190,600	177,165	367,765
Total for 16 weeks ...	1,221,310	4,70,699	41,36,194	5,12,280	*1,08,167	10,91,146	203,576	189,810	393,386
Comparison.									
Audited figures.									
Total for corresponding week of previous year, 640 miles open...	58,268	22,272	3,01,425	33,862	4,613	60,747	10,201	11,863	22,064
Per mile of corresponding week of previous year	89·78	34·32	464·45	52·17	7·11	93·60	.....	.....	.....
Total to corresponding date of previous year	1,208,226	4,43,674	44,31,934	5,11,306	1,28,478	10,83,458	186,600	212,807	399,407

* Steam-boat earnings for the week, Rs. 6,080.
Ditto ditto to date, „ 82,490.

* Ajodhya bridge earnings for the week, Rs. 50
Ditto ditto adjustment „ 800
Total „ 850
Ditto ditto to date „ 4,460

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 25th October 1890.			Receipts for week ending 26th October 1889.			Total receipts from 1st April 1890 to 25th October 1890.			Total receipts from 1st April 1889 to 26th October 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	* 74,150	107·31	640	60,747	93·60	673	34,14,826	130·93	649	33,99,111	133·81	15,715	.....

	N.B.—Earnings of B. and N.-W. Section.		Earnings of Tirhoot Section.	
	Week ended 25-10-90.	Week ended 26-10-89.	Week ended 25-10-90.	Week ended 26-10-89.
	Rs.	Rs.	Rs.	Rs.
Coaching ...	13,220	10,474	13,170	11,798
Goods ...	12,830	16,555	27,810	20,027
Other earnings ...	4,180	1,580	5,150	2,033
Total ...	30,230	28,609	46,130	34,858

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 11th October 1890	13,664
Corresponding period of 1889	11,372
Increase	2,292
	Rs. A. P.
Receipts per mile for week ending 11th October 1890	267 14 9
Corresponding period of 1889	223 0 0
Increase	44 14 9
Receipts from 1st July to 11th October 1890	1,43,054
Corresponding period of 1889	1,67,582
Decrease	24,528

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 18th October 1890	14,113
Corresponding period of 1889	11,200
Increase	3,213
	Rs. A. P.
Receipts per mile for week ending 18th October 1890	282 9 9
Corresponding period of 1889	219 9 11
Increase	62 15 10
Receipts from 1st July to 18th October 1890	1,57,467
Corresponding period of 1889	1,78,783
Decrease	21,316

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Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 1st November 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN. 1	**Burdwan** Nov. 1, '90	Nil	Weather—cloudy and hot. Prospects of *amun* and sugarcane good. Prices of common rice :—
	Ranigunge ...	0·01	Srs. Burdwan ... ... 16½ ; Culna ... ... 15 ; Cutwa ... ... 16 ; Ranigunge ... ... 17 } per rupee.
2	**Bankoora** ,, 1, '90	Nil	Weather—fine, but occasionally cloudy. Prospects of *amun* crop continue good. Early rice has been an average crop. *Amun* expected to yield 16 annas in Sudder and 14 annas in the Bissenpore subdivision. Sugarcane thriving. Common rice selling at 19 seers per rupee at Sudder and 20 seers at Bissenpore.
3	**Birbhum** ,, 1, '90	0·24	Weather—seasonable. Crops remarkably excellent. Price of rice 16 to 19 seers per rupee.
4	**Midnapur** ,, 1, '90	0·38	Weather—cloudy, wind variable. Prospects of rice crop good everywhere. Some of the low-lying lands in Contai submerged. Jute in Tumlook is an average crop. Prices of common rice :—
			Srs. Sudder ... ... 15 ; Ghatal ... ... 16 ; Tumlook ... ... 16 ; Contai ... ... 19 } per rupee.
5	**Hooghly** ,, 1, '90	Nil	Weather—seasonable. Paddy plants healthy, and prospects good. Prices of common rice :—
			Srs. Sudder ... ... 14 ; Serampore ... ... 14 ; Jehanabad ... ... 16 } per rupee.
	Howrah ,, 1, '90	Nil	Weather—seasonable. *Amun* and other crops doing well. Price of common rice 14 seers per rupee.
	Central Districts.		
PRESIDENCY DIVN. 6	**24-Perghs.** Nov. 1, '90	Nil	Weather—seasonable. Prospects of *amun* paddy continue good, and the yield is estimated at about 13 annas. Yield of jute estimated at 15 annas. Lands being prepared for *rubbi* crops. Common rice sells at from 13 to 15 seers a rupee.
7	**Nuddea** ,, 1, '90	Nil	Weather—seasonable. Prospects of crops fair. Sowing of winter crops going on. Price of rice stationary.
	Meherpore ...	0·06	
8	**Khoolna** ,, 1, '90	Nil	Weather—seasonable. Prospects of the *amun* crop satisfactory in Sudder and Bagirhat and in southern portion of Satkhira. In the north of Satkhira the *amun* was destroyed by the late flood. It was also slightly injured everywhere by the high wind of the 22nd October.
9	**Jessore** ,, 1, '90	Nil	Weather—seasonable. *Rubbi* sowings in progress. Price of rice stationary.
	Magura ...	0·03	
	Narail ...	0·06	
10	**Moorshedabad** ,, 1, '90	0·94	Weather seasonable. *Amun* paddy in ear. *Rubbi* crops being sown. Prospects favourable.
RAJSHAHYE DIVN. 11	**Dinagepur** ,, 1, '90	Nil	Weather—seasonable. Prospects continue to be very good, and, unless some unforeseen calamity occurs, the winter rice should be unusually good. Price of rice remains stationary.
12	**Rajshahye** ,, 1, '90	Figures not given.	Fair weather. A shower last night (31st October). Steeping of jute almost finished. Tobacco transplantation going on. Prospects of paddy and winter crops good. Ganja plants being transplanted.
	Nattore ...	0·08	
13	**Rungpur** ,, 1, '90	Nil	Weather—not fine, with cool nights and heavy morning dews. Prospects of crops generally good. Great damage done by excessive rain to tobacco seedlings, and the potato crop will not be a good one owing to late planting from the same cause.
14	**Bogra** ,, 1, '90	0·11	Weather—fine till 31st October; morning of 1st November cloudy and showery, afternoon fine again. All standing crops promise well, after allowing for partial injury caused by floods to the *amun* rice crop. Common rice selling at 17 seers a rupee.
	Sherpur ..	0·11	
15	**Pubna** ,, 1, '90	Nil	Weather—cool and bright. Prospects of crops continue good. Prices appear to be stationary.
16	**Darjeeling** ,, 1, '90	Nil	Weather—fair. Potatoes and mustard are being sown in the Terai. *Haimanti* paddy, *marua*, and *pafar* in the hills progressing favourably. Prospects good.
17	**Julpigoree** ,, 1, '90	Nil	Cold season has almost set in. Prospects of *haimanti* paddy good. Harvesting of jute going on. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 18	Dacca Nov. 1, '90	0·04	Weather—seasonable. Heavy rain in Manickgunge. *Asvini* paddy being harvested. *Amun* paddy thriving. Cultivation going on for mustard and pulses. Fodder is available Common rice sold at from 12 to 15 seers per rupee.
Dacca Divn. 19	Furreedpur „ 1, '90	Nil	Weather—seasonable. State and prospects of all standing crops good. Reaping of early *amun* has commenced. Winter crops are being sown. Price of rice stationary.
Dacca Divn. 20	Backergunge „ 1, '90	Nil	Weather—seasonable. Prospects and condition of crops good. Common rice selling at about 13 seers per rupee.
Dacca Divn. 21	Mymensingh „ 1, '90	0·40	Weather—cool and generally fine; cloudy since yesterday (31st October), and light showers falling to-day (1st November). *Amun* paddy thriving. *Kalai* somewhat damaged by heavy rain last week. Common rice sells at 13 seers per rupee.
Chittagong Divn. 22	Chittagong „ 4, '90	1·32	Weather—unsettled. *Amun* crop in ear. Prospects favourable. Prices steady.
Chittagong Divn. 23	Noakholly „ 1, '90	Nil	Weather—not seasonable: cloudy and sultry. *Amun* maturing. Preparation of lands for *rubbi* crops going on. Price of rice stationary.
Chittagong Divn. 24	Tipperah „ 1, '90	1·02	Weather—clear. Cold weather setting in. Prospects of *amun* excellent. Lands being tilled for winter crops. Prices stationary.
Chittagong Divn. 25	Chittagong Hill Tracts. Oct. 30, '90	0·55	Weather—disturbed up to 27th; since then more settled. Harvesting of *jum* paddy nearly complete. Cotton forming pods here and there. Plough-paddy flowering. Common rice being sold at 11 seers 6¼ chittacks per rupee.
	Hill Tipperah ...	...	Report not received.
BEHAR.			
Patna Divn. 26	Patna Nov. 1, '90	Nil	Weather—hot in the day and cool at night. Sowing of *rubbi* crops going on. Paddy promising well. *Rahar* and cotton look flourishing. Poppy fields are being prepared. Prices of food-grains almost stationary.
Patna Divn. 27	Gya „ 1, '90	Nil	Weather—clear days and cold nights. Prospects of crops good. Sowing of *rubbi* crops going on throughout the district. Prices of food-grains falling. A flight of locusts reported from the Aurangabad subdivision, but the extent of damage to the crops not reported.
Patna Divn. 28	Shahabad „ 1, '90	Nil	Weather—cooler. Prospects of *rubbi* and paddy crops good. *Rubbi* crops are still being sown. Early paddy being harvested. Opium prospects at present excellent, the weather being favourable for sowings.
Patna Divn. 29	Durbhunga „ 1, '90	Nil	Weather—bright and getting cool. Rice crop looking well and coming into ear. *Rubbi* sowings in progress, and those already sown have germinated well. Tobacco doing well. Prices stationary.
Patna Divn. 30	Mozufferpur „ 1, '90	Nil	Weather—dry and fairly cool. Sowing of *rubbi* crops proceeding. Rice crop in excellent condition. Prices moderate.
Patna Divn. 31	Sarun „ 1, '90	Nil	Weather—fine and cold. *Rubbi* and rice prospects both excellent. Prices slightly falling.
Patna Divn. 32	Chumparun „ 1, '90	Nil	Weather—pleasantly cool: sky clear. *Rubbi* sowings have commenced. Paddy in ear and doing very well. Prices stationary.
Bhagulpore Divn. 33	Monghyr „ 1, '90	Nil	Weather—seasonable. *Rubbi* crops are being sown. Winter rice promising.
Bhagulpore Divn. 34	Bhagulpore „ 1, '90	Nil	Weather—clear. Mornings and evenings cool, nights dewy. Winter rice promising. Other crops doing well. Lands being prepared for spring crops. Indigo sowings in progress.
Bhagulpore Divn. 35	Purneah „ 1, '90 Kishengunge ...	Nil 0·06	Weather—cool and fine with north-west wind. Prospects favourable, but the rain in October has retarded *rubbi* sowings, specially sowings of rape seed.
Bhagulpore Divn. 36	Maldah „ 1, '90	Nil	Weather—seasonable. Condition and prospect of *amun* crop excellent. In some parts it is in ear. *Kalai* thriving well. *Rubbi* crops being sown. State of mulberry plants good. Common rice selling at from 13 to 18 seers a rupee.
Bhagulpore Divn. 37	Sonthal Pergha. ...	...	Report not received.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
Orissa Divn. 38	Cuttack Nov. 1, '90	0·10	Weather—dry and cool. General prospects of paddy crop good, except in some parts of the Kujang estate where a failure of crops has occurred. Sowing of *rubbi* crops nearly finished. Mustard sown to the extent of 10 annas. Outturn of *beali* rice in Sudder 12 annas, Jajpur 6¾ annas, and Kenerapara 12 annas.
Orissa Divn. 39	Pooree Oct. 30, '90	0·56	Weather—seasonable. Late *sarad* (winter rice) is in ear. *Laghu* °*arad* (early winter rice) ripening. Miscellaneous crops doing well. Price of common rice stationary.
Orissa Divn. 40	Balasore Nov. 1, '90	0 49	Weather—fine up to 30th October; since then stormy. Prospects of winter rice fairly good except in thana Baliapal.
CHOTA NAGPORE			
South-West Frontier Agency.			
Chota Nagpore Divn. 41	Hazaribagh Nov. 1, '90	Nil	Weather—seasonable; cloudy since last two days. State of crops favourable throughout the district.
Chota Nagpore Divn. 42	Lohardugga „ 1, '90	Nil	Weather—cloudy. Harvesting of *gora* rice finished. Prospect of winter rice continues favourable. Prices steady.
Chota Nagpore Divn. 43	Singbhoom „ 1, '90	Nil	Weather—very cloudy and threatening rain. Winter rice being reaped in places; 16 annas outturn expected in Ghatsila and Monarpur thanas, and 10 to 12 annas outturn in the rest of the district. *Rubbi* sowings being continued. Prices stationary.
Chota Nagpore Divn. 44	Manbhoom „ 1, '90	Nil	Weather—seasonable. All crops doing well.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 4th November, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Beng

for the week ending Friday, the 31st of October 1890.

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS.														DISTRICT OBSERVATIONS.												Representative station.	District.	Meteorological Division.
			AIR PRESSURE.			WIND.		TEMPERATURE.									Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	RAINFALL. Of week.		Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.			
			Mean barometric height. 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean. 8 A.M.				Mean for district.	Normal mean.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.					
Orissa.	Pooree	Pooree	29·975	29·987	—	?	?	87·7	28th Oct.	73·6	28 & 31 Oct.	87·1	76·2	81·3	—	71	3·0	2·31		1·48							1·3	Pooree	Pooree	Orissa.
		Gopalpore	29·968	29·980				89·3	28th ,,	72·3	28th ,,	87·1	75·6	80·5	+0·7	82	3·0	3·07										Gopalpore		
		False Point	29·963	29·985	+·027	N & NNW	147	87·4	25th ,,	70·6	27th ,,	85·8	75·1	79·5	+0·8	78	3·7	0·03										False Point		
	Cuttack	Cuttack	29·923	30·006	+·050	Calm & NE	30	90·4	25th ,,	71·3	28th ,,	88·6	73·8	81·2	+1·2	77	4·9	0·18		1·13		5·63		49·80			1·4	Cuttack	Cuttack	
	Balasore	Balasore	29·962	30·023	+·061	NW	158	88·4	25 & 26 ,,	68·0	26th ,,	86·1	71·4	78·6	+1·7	78	1·9	0·44	1·16	0·91	9·28	5·25	+4·03	61·39	51·74	+8·65	1·2	1·3	Balasore	Balasore	
	South-West Midnapore, South 24-Pergunnahs	Sangor Island	29·975	30·002	+·048	North-Easterly	101	87·2	25th ,,	70·0	27th ,,	85·1	71·7	78·5	—0·3	79	3·0	1·48	2·02	1·84	18·37	7·72	+10·65	65·65	61·00	+4·65	1·0	1·5	Sangor Island	South-West Midnapore, South 24-Pergunnahs	
	Midnapore	Midnapore	29·849	30·003	+·032	N	178	89·3	25th ,,	5·2	27th ,,	87·9	69·2	78·6	+1·1	77	1·6	0·45	0·13	0·77	4·73	4·27	+0·46	50·00	51·01		0·3	0·9	Midnapore	Midnapore	
South-West Bengal.	24-Pergunnahs, Howrah, Hooghly	Calcutta	29·987	30·009	+·048	Calm	24	85·5	25th ,,	66·7	27th ,,	83·7	68·8	76·2	—1·7	78	1·7	Nil	Nil	0·76	8·23	4·17	+4·06	35·99	51·56	+4·53	0·0	1·0	Calcutta	24-Pergunnahs, Howrah, Hooghly	South-West Bengal.
	Burdwan	Burdwan	29·918	30·021	+·050	Calm	28	87·6	25th ,,	67·4	29th ,,	86·4	69·8	78·1	—0·8	76	1·9	Nil	0·27	0·76	4·99	3·97	+1·02	61·14	45·82	+15·31	0·3	0·9	Burdwan	Burdwan	
	Bankoora	Bankoora	29·688	29·999	+ ·054	W	42	88·1	26th ,,	64·2	27th ,,	86·5	67·4	77·0	—1·5	76	1·4	Nil	Nil	0·55	5·31	3·46	+1·85	52·01	51·47	+0·54	0·0	0·8	Bankoora	Bankoora	
	Beerbhoom, West Burdwan	Ranegunge	29·686	30·031	+·060	NW	35	87·0	25th ,,	62·1	27th ,,	86·1	65·9	75·6	—2·3	76	1·6	0·01	0·11	0·47	8·08	3·46	+4·62	63·58	51·45	+12·13	0·8	0·8	Ranegunge	Beerbhoom, West Burdwan	
	Moorshedabad	Berhampore	29·937	30·005	+ ·031	South-Westerly	37	84·7	26th ,,	64·7	28th ,,	84·7	68·4	76·6	—1·7	74	1·0	0·89	0·27	0·28	7·43	4·22	+3·22	61·22	49·61	+10·56	0·5	0·6	Berhampore	Moorshedabad	
	Nuddea	Krishnaghur	29·957	30·007	+·050	WNW	60	86·8	31st ,,	63·9	27th ,,	85·7	65·5	75·8	—2·4	76	1·3	Nil	Nil	0·69	8·74	4·21	+4·53	54·80	48·31	+6·49	0·3	0·8	Krishnaghur	Nuddea	
	Jessore, Khoolna	Jessore	29·967	30·002	+·04	Calm	35	86·2	25th ,,	69·0	27th ,,	85·5	70·7	78·1	+1·1	78	1·0	Nil	Nil	0·81	7·85	4·42	+3·43	54·57	53·22	+1·25	0·0	1·0	Jessore	Jessore, Khoolna	
East Bengal.	Chittagong	Chittagong	29·914	30·006	+·048	Variable	40	86·2	25 & 29 ,,	69·7	28 & 29 ,,	85·1	72·0	78·6	+0·1	78	3·6	0·42	0·28	1·56	3·83	6·66	—2·73	117·69	110·40	+7·29	1·0	1·4	Chittagong	Chittagong	East Bengal.
	Chittagong Hill Tracts	Demagiri						observations not received.												1·14	4·30	7·16	—2·86	72·90	77·77	—4·87	1·0	1·3	Demagiri	Chittagong & Hill Tracts	
	Backergunge	Barrisal	29·975	29·985	+·051	alm	42	85·8	25th Oct.	69·4	27th ,,	84·0	70·8	77·8	+0·3	77	1·0	Nil	Nil	1·02	7·14	5·55	+2·59	64·14	78·45	—0·19	0·0	1·1	Barrisal	Backergunge	
	Noakholly	Noakholly	29·975	30·019	+·079	N	70	84·5	25th ,,	67·4	29th & 30 ,,	83·7	70·7	77·2	—0·1	77	0·3	0·05	1·33	0·80	8·80	6·37	+2·43	97·80	103·10	—5·28	1·5	1·0	Noakholly	Noakholly	
	Furreedpore	Furreedpore	29·977	30·017	+·060	Calm	35	84·5	26th ,,	67·4	28th ,,	83·1	69·1	76·1	—1·6	77	0·6	Nil	Nil	0·62	7·35	4·44	+2·91	45·82	54·54	—8·72	0·0	0·9	Furreedpore	Furreedpore	
	Dacca	Dacca	29·955	30·005	+ ·041	SE	64	85·1	26 & 29 ,,	67·2	28th ,,	84·0	70·1	77·1	—2·4	77	1·7	0·04	0·03	0·84	5·18	4·45	+0·73	58·19	59·07	—0·88	0·5	0·9	Dacca	Dacca	
	Commillah	Commillah	29·963	29·999	+ ·054	NE	23	85·9	27th ,,	65·8	29th ,,	84·3	68·9	76·6	—2·2	77	2·9	1·59		0·77		5·11		68·95			0·9	0·9	Commillah	Tipperah	
	Mymensingh	Mymensingh	29·945	30·004	+ ·058	North-East by North	30	84·7	26 & 27 ,,	67·1	28 & 29 ,,	83·3	69·2	76·3	—0·9	77	2·4	0·20	0·08	0·74	9·01	5·41	+3·60	75·68	68·10	+7·58	0·2	1·0	Mymensingh	Mymensingh	
	Bogra	Bogra	29·920	29·995	+ ·030	Northerly	35	85·3	26th ,,	64·1	28th ,,	83·3	67·3	75·3	—2·1	77	0·0	Nil	Nil	0·32	11·36	4·10	+6·26	78·58	56·56	+22·02	0·0	0·4	Bogra	Bogra	
North Bengal.	Pubna	Serajgunge	29·956	30·004	+ ·039	NW	20	85·2	26 & 31 ,,	64·8	28th ,,	83·9	67·7	75·8	—1·0	77	1·6	0·01	Nil	0·66	5·62	4·59	+1·04	54·35	52·51	+1·85	0·0	0·6	Serajgunge	Pubna	North Bengal.
	Rajshahye	Rampore Beauleah.	29·940	30·002	+ ·057	Calm	34	85·3	25th ,,	66·7	27—29 ,,	83·9	68·8	76·4	+0·1	77	1·0	0·04	0·06	0·51	10·02	3·73	+6·29	74·93	52·02	+22·91	0·7	0·6	Rampore Beauleah	Rajshahye	
	Maldah	Maldah	29·926	29·912	+ ·11·	W	61	86·0	25 & 30 ,,	63··	·6th ,,	85·3	66·2	75·8	—2·7	77	0·0	Nil	Nil	0·81	7·60	3·69	+ 3·91	62·12	53·40	+8·72	0·0	0·7	Maldah	Maldah	
	Dinagepore	Dinagepore	29·883	30·007	+ ·022	W	30	87·1	26th ,,	64·2	31st ,,	85·5	67·1	76·3	0	77	0·0	Nil	Nil	0·35	11·44	3·53	+7·91	8·74	56·15	+25·59	0·0	0·6	Dinagepore	Dinagepore	
	Rungpore	Rungpore	29·880	30·018	+ ·02·	WSW	56	87·8	24th ,,	64·2	31st ,,	85·2	67·6	76·4	+1·0	77	0·4	Nil	Nil	0·61	18·28	4·80	+13·48	100·61	73·09	+33·52	0·0	0·6	Rungpore	Rungpore	
	Julpigoree, Cooch Behar	Julpigoree	29·702	29·990	+ ·08	?	194 ?	86·0	25th ,,	65··	30th ,,	84·8	66·7	75·7	+0·1	77	1·0	Nil	Nil	0·74	14·98	5·29	+9·69	154·51	109·53	+44·98	0·0	0·7	Julpigoree	Julpigoree, Cooch Behar	
	Darjeeling Hill Tracts	Darjeeling	29·058	—	—·603	SW	102	61·6	31st ,,	42·2	31st ,,	59·2	47·0	53·1	—0·8	8	5·3	Nil	0·25	1·38	14·28	6·05	+8·23	165·38	119·37	+46·01	0·8	1·1	Darjeeling	Darjeeling Hill Tracts	
	Purneah, North Bhaugulpore	Purneah	29·878	30·009	+ ·036	SW	59	86·2	25th ,,	60·5	31st ,,	84·1	64·2	74·2	—2·0	78	0·3	Nil	Nil	0·83	6·23	3·61	+2·62	80·67	57·99	+22·68	0·0	0·8	Purneah	Purneah, North Bhaugulpore	
	Mozufferpore	Mozufferpore	29·851	30·009		Calm	5	85·3	25th ,,	68·2	27 & 28 ,,	84·2	68·8	76·7	—	78	0·0	Nil	Nil	0·61	1·79	3·41	—1·61	52·57	42·67	+9·90	0·0	0·4	Mozufferpore	Mozufferpore	
	Durbhunga	Durbhunga	·847	30·0·1	+ ·026	WSW	40	86·4	25th ,,	62·0	31st ,,	85·1	65·5	75·3	—1·8	78	0·0	Nil	Nil	0·62	1·74	2·92	—1·18	57·08	43·90	+13·18	0·0	0·3	Durbhunga	Durbhunga	
	Chumparun	Motihari	29·778	30·013	+ ·051	ESE	99	86·2	25 & 27 ,,	58·9	31st ,,	85·2	62·2	73·7	—0·4	78	0·0	Nil	Nil	0·21	5·67	3·54	+2·13	68·67	45·89	+22·78	0·0	0·2	Motihari	Chumparun	
	Sarun	Chupra	29·799	30·000	+ ·025	W	47	86·3	25th ,,	62·9	31st ,,	84·9	66·2	75·5	—0·4	78	0	Nil	Nil	0·49	1·58	4·21	—2·73	53·60	41·67	+11·93	0·0	0·3	Chupra	Sarun	
	Shahabad	Dehree	29·657	30·026	+ ·029	SW	53	85·8	25th ,,	59·5	30th ,,	83·0	64·7	73·8	—2·7	78	0	Nil										70	Dehree		
		Buxar	·8770	30·021	+ ·036	WSW	66	85·4	25 & 29 ,,	60·4	31st ,,	84·8	62·1	73·5	—3·1	65	0	Nil	Nil	0·53	1·34	3·30	—1·96	49·39	39·06	+10·33	0·0	0·4	Buxar	Shahabad	
		Arrah	29·800	30·072	+ ·05·	SW	15	87·4	5th ,,	57·8	31st ,,	85·4	61·5	73·6	— 2·5	75	0·9	Nil											Arrah		
South Bihar.	Gya	Gya	·9640	30·034	+ ·04·	S	113	88·4	25th ,,	61·7	27 & 31 ,,	86·0	63·2	74·6	—3·0	86	0·6	Nil	Nil	0·39	0·44	2·83	—2·40	5··93	40·57	+10·36	0·0	0·3	Gya	Gya	South Bihar.
	Patna	Bankipore	29·829	30·04	+ ·0·0	W	55	83·9	30th ,,	62·0	31st ,,	85·9	64·2	75·1	—1·7	78	0	Nil	Nil	0·75	1·34	3·25	—1·91	48·10	40·41	+7·69	0·0	0·5	Bankipore	Patna	
	South Bhaugulpore, Monghyr	Bhaugulpore	29·832	29·98·	+ ·039	Calm	8	87·2	25th ,,	63·0	27th ,,	84·6	64·8	74·7	—0·9	76	0·6	Nil	Nil	0·77	3·17	3·20	—0·03	52·25	42·34	+9·91	0·0	0·5	Bhaugulpore	South Bhaugulpore, Monghyr	
	Sonthal Perguunahs	Deoghur	29·848	30·012	+ ·038	Calm	36	86·5	25th ,,	60·3	27th ,,	84·2	64·2	74·2	—1·3	74	0·7	0·11	0·02	0·01	10·21	3·75	+6·46	63·27	50·10	+13·17	0·2	0·4	Deoghur	Sonthal Perguunahs	
Chutia Nagpur.	Hazaribagh	Hazaribagh	29·977	30·021	+ ·026	WNW	108	81·4	30th ,,	53·8	27th ,,	80·3	61·1	70·7	—1·6	68	1·6	Nil	Nil	0·36		2·97			48·85		0·0	0·5	Hazaribagh	Hazaribagh	Chutia Nagpur.
	Lohardugga, Manbhoom	Kanchee	29·848	30·013	+ ·024	Calm	86	81·5	30th ,,	55·9	24th ,,	80·7	58·7	69·7	—1·9	66	1·4	Nil	Nil	1·63	2·72	—1·09	47·01	46·01	+0·00	0·0	0·8	Kanchi	Lohardugga, Manbhoom	
																				0·52	3·31	3·34	—0·03	41·43	36·05	—9·01	0·0	0·7			
	Singbhoom	Chyebassa	29·827	30·013	+ ·048	ENE	26	87·4	24th ,,	60·5	27th ,,	86·4	65·4	75·9	—0·6	75	2·3	Nil	Nil	0·71	1·73	2·95	—1·22	34·94	50·24	—16·30	0·0	1·0	Chyebassa	Singbhoom	
Assam.	Assam	Sibsagar	29·702	30·047	+ ·029	Variable	?	86·6	25 & 26 ,,	63·8	31st ,,	85·5	68·6	76·1	+1·3	85	3·6	1·09											Sibsagar		Assam.
		Dhubri	29·885	30·007	+ ·013	Variable	64	85·2	26 & 27 ,,	66·9	28th ,,	83·2	69·8	76·5	—0·3	84	1·9	Nil											Dhubri		
		Silchar	29·903	30·012	+ ·037	Calm	?	89·5	25th ,,	66·3	31st ,,	86·4	70·8	78·6	+0·8	82	7·0	Nil											Silchar		

* Mean of six days.

Explanations.—*Summary.*—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the l
Wind.—The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numb
Rainfall.—The numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the p
ceding in the district tending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

years. The variations are *negatives* when the mean for the week is less than the corresponding normal mean, and *positives* when greater.
cating cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the *normal* means
ch years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of October 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 25th October.	Sunday, 26th October.	Monday, 27th October.	Tuesday, 28th October.	Wednesday, 29th October.	Thursday, 30th October.	Friday, 31st October.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa	Pooree	Pooree	...	0·80	...	.....	...	0·30	1·24	3	2·34	11·90	8·83	67·69	67·99
		Khurdah	...	...	...	.....	...	1·39	0·03	2	1·42	8·71	6·88	64·93	54·19
		Banpur	.....	0·50	.....	.....	0·15	.....	.....				6·31		46·16
		False Point	.....	.....	.....	.....	.....	.....	0·03	1	0·03	10·71	10·70	68·41	60·09
		Gor											?		?
		Satpara					0·10						?		?
		Pipli	.....	.....	.....	.....									
							1·8	0·79					6·80		45·18
	Cuttack	Jagatsingpore	.....	...	...	.....	.....	0·62					4·40		43·68
		Banki	.....	...	.....	.....	.....	.....	0·10	1	0·10	8·54	5·05	80·20	54·58
		Cuttack	.....	...	.....	.....	.....	0·03	0·09	2	0·12	7·31	6·27	52·56	51·30
		Kendrapara	.....	...	.....	...	.....	.....	0·09	1	0·09	6·32	5·08	52·69	51·48
		Jajpore	.....	...	...	.....	.....								?
		Dharmsala													?
		Saliporo													
									0·58	1	0·58	8·54	6·44	51·65	50·89
	Balasore	Chandbali	.....	....	....	.....	....	.....	1·00	2	2·58	11·14	4·81	57·17	50·00
		Bhuddruck	1·58	.....	.....	.....	.....	.....	1·15	1	1·15	7·00	5·45	60·74	49·26
		Soroh	.....	.....	.....	.....	.....	.....	0·49	1	0·49	9·18	6 33	65·88	56·14
		Balasore	...	.....	...	.....	.....	.....	...	Nil	Nil	10·36	4·56	64 62	50·67
		Jellasore	.....	.....	...	.....	.....	1·37	0·77	2	2·14	9·43	3·91	62·30	52·46
		Raripodah	.....	.....											
									4·47	1	4·47	21·61	8·36	67·28	59·01
South-West Bengal.	Midnapore	Contai	.....	...	.....	.....	...	.....	1·48	1	1·48	21·76	9·57	67·61	65·69
		Saugor Island	...	...	.....	.....	..	.....	.....	Nil	Nil	7·10	4·40	57·90	50·36
		Tumlook	.....	.....	...	.....	...	.....	0·38	1	0·38	5 19	4·80	47·47	47·72
		Midnapore	.....	.....	.....	.....	..	.....	.....	Nil	Nil	1·98	3·80	44·61	53·56
		Ghattal	.....	...	...	.....	.....	.....	.....	Nil	Nil	10·36		50·29	?
		Kukrahaty	.....	...	.....	.....	.....	.....	.....	Nil	Nil	3·58	?	46·23	?
		Garbetta	.....	...											
									0·12	1	0·12	11·77	5·14	62·09	57·14
	24-Perguunahs	Diamond Harbour	...	.....	.....	.....	.....	.....	.....	Nil	Nil	14·03	?	66·69	?
		Canning Town	.....	...	...	.....	...	.....	.....	Nil	Nil	9·68	4·44	61·91	54·28
		Alipore Jail	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·41	3 55	50·91	48·09
		Barrackpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·04	4·33	55·75	50·39
		Dum-Dum	.....	...	...	.....	.....	.....	.....	Nil	Nil	11·17	4·54	54·84	48·72
		Baraset	.....	...	...	.....	.....	.....	.....	Nil	Nil	10·89	4·39	58·67	53·71
		Buseerhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·06	4·34	51·34	49·99
										Nil	Nil	5·28	3·43	59·57	50·71
	Howrah	Howrah	.....	.....	.....	.....	.....	.....	.....						
		Mohesreka (*Colinberiah*)	.....	...	.....	.....	.....	.....	.....	Nil	Nil	8·41	4·10	54·27	49·21
										Nil	Nil	6·17	4·10	52·05	47·17
	Hooghly	Serampore	.....	...	.....	.....	.....	.....	.....	Nil	Nil	3·21	4·48	51·07	54·21
		Hooghly	.....	...	.....	.....	.....	.....	.....						
		Jehanabad	.....	...	.....	.....	.....	.....	.....	Nil	Nil	3·07	3·95	54·11	43·25
										Nil	Nil	3·50	3·94	54·97	47·19
	Burdwan	Culna	.....	.....	.....	.....	.....	.....	.....						
		Burdwan	...	...	.....	.....	.....	.....	0·80	1	0·80	7·49	4·04	64·30	46·91
		Cutwa	.....	.....	.....	.....	.....	.....	0·01	1	0·01	8·83	3·42	60·44	48·47
		Ranegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·38	?	47·80	?
		Mankur	.....	.....											
										Nil	Nil	4·76	4·19	57·76	50·66
	Bankoora	Bankoora	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4 66	2·70	50·95	51·22
		Bishenpore	...	..	.....	.....	.....	.....	.....	Nil	Nil	5·92	3·28	59·23	47·75
		Maliara	.....	...	.....	.....	.....	.....	.....	Nil	Nil	6·02	3·73	40·06	55·45
		Khatra	.....	...	.....	.....	.....	.....	.....	Nil	Nil	5·74	?	59 97	?
		Indas	.....	...	.....	.....	.....	.....	.....	Nil	Nil	6·64	?	66·94	?
		Kotalpore	.....	...	.....	.....	.....	.....	.....	Nil	Nil	9·20	?	55·11	?
		Anda	.....	...	.....	.....	.....	.....	.....	Nil	Nil	3·87	?	63·75	?
		Gangajalghati	.....	...	.....	.....	.....	.....	.....	Nil	Nil	6·13	?	53 29	?
		Raipore	.....	...	.....	.....	.....	.....	.....	Nil	Nil	4·51	?	52·74	?
		Sonamukhi	.....	...	.....	.....	.....	.....	.....						
									0·01	1	0·01	6·37	3 70	61·95	52·39
	Beerbhoom	Bh. Soory	.....	.....	.....	.....	.....	.....	0·40	1	0·40	9·03	2 84	59·55	50·53
		Hetampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·08	3·69	72·86	50·58
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·07	?	58·23	?
		Raipore	.....	...	.....	.....	.....	.....	.....	Nil	Nil	7·11	?	56·46	?
		Murarai	.....	...											
										Nil	Nil	7·50	3·78	55·46	45·26
	Nuddea	Ranaghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·07	4·21	61·46	45·01
		Kishnaghur	...	...	.....	.....	.....	.....	.....	Nil	Nil	6·27	4 41	47·08	50 0
		Chooadanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·25	3·72	58·96	46·8
		Meherpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·99	5·03	52·09	53·5
		Kooshtea	.....	.....	.....	.....									
										Nil	Nil	7·04	4·76	57·13	54·7
	Khoolna	Satkhira	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·35	5·24	62·51	55·9
		Bagirhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·90	6 19	52·88	53·4
		Khoolna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	15·13	?	75·03	?
		Nakipur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11·44	?	65·78	?
		Rampal	.....	...											
										Nil	Nil	12·01	3·66	51·45	44·1
	Jessore	Narail	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·74	4·42	59·49	53·7
		Jessore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·95	4·81	54·16	52·2
		Jhenidah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·19	3·81	43·44	46·1
		Magoorah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·50	4·69	46·66	50·7
		Bongong	.....	.....											
										Nil	Nil	4·81	3·98	64·09	49·
	Moorshedabad	Kandi	.....	.....	.....	.....	.....	.....	0·89	1	0·89	7·61	4·48	59·22	50·
		Berhampore	.....	.....	.....	.....	.....	.....	0·42	1	0·42	7·49	4·51	63 67	49·
		Lalbagh	.....	.....	.....	.....	.....	.....	0·30	1	0·30	6·85	4·73	58·27	50·99
		Aumungunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·46	3·23	51·35	48·61
		Jungipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·30	4·35	64·70	54·66
		Lalgola	...	.....	.....	.....	.....	.....	.....				?		?
		Jiagunge	.....	.....	.....	.....	.....	.....	0·40	1	0·40	8·63	?	61·99	?
		Akhriguni	.....	.....	.....	.....	.....	.....	0·50	1	0·50	6·00	?	?	?
		Patkabari	.....	.....											
										1	0·46	3·39	7·76	126·05	120·28
East Bengal	Chittagong	Cox's Bazar	.....	.....	0·48	.....	.....	.....	.....	2	0·40	4·38	5·67	107·32	91·05
		Chittagong	0·09	0·31	.....	.....	.....	.....	.....	1	0·08	6·30	?	111·60	?
		Anwabdia	0·06	.....	.....	.....	.....	.....	.....	Nil	Nil	3·35	?	81·25	?
		Sathanya	.....	.....	.....	.....	.....	.....	.....						
										2	0·55	3·60	6·98	69·89	59·55
	Chittagong Hill Tracts.	Rangmati	0·19	0·26	.....	.....	.....	.....	.....	Nil	Nil	5·00	7·22	76·91	76·99
		Rama	.....	.....	.....	.....	.....	.....	.....						
										Nil	Nil	9·40	6·08	79·01	64·99
	Backergunge	Patuakhally	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·17	5·74	62·91	67·66
		Perozepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·07	4·86	65·76	68·49
		Burrisal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·61	5·50	64·99	70·46
		Bauleah	.....	.....	.....	.....	.....	.....	.....						

...ent of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of October 1890 —contd.

...eal	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 25th October.	Sunday, 26th October.	Monday, 27th October.	Tuesday, 28th October.	Wednesday, 29th October.	Thursday, 30th October.	Friday, 31st October.	Number of rainy days.	Rainfall of week.				
...AL		*Gourseddi* ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·49	?	42·06	?
		Bauphal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·94	?	73·26	?
	Noakholly ...	Noakholly ...	0·06	.....	.....	.....	.....	.....	.....	1	0·06	10·08	6·89	92·34	104·73
		Fenny ...	0·60	2·00	.....	.....	.....	.....	.....	2	2·60	7·53	5·82	108·40	101·47
		Hartikpore ...	0·02	0·40	.....	.....	.....	.....	.....	2	1·02	10·90	?	168·61	?
		Ramganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·80	?	65·28	?
	Furreedpore	Madaripore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·71	4·21	41·91	54·63
		Furreedpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·38	4·33	49·45	56·87
		Goalundo ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·49	4·82	44·90	52·06
	Dacca ...	Munshigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·17	5·50	57·78	68·40
		Dacca ...	0·04	.....	.....	.....	.....	.....	.....	1	0·04	6·06	3·94	54·58	57·48
		Naraingunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·26	4·45	60·71	59·96
		Manickgunge ...	0·09	.....	.....	.....	.....	.....	.....	1	0·09	7·23	3·95	59·71	48·99
		Joydebpore ...	0·87	.....	.....	.....	.....	.....	.....	1	0·87	6·35	?	60·28	?
	Hill Tipperah	Agartola ...											5·32		59·79
	Tipperah ...	Comilla ...	0·97	0·05	.....	.....	.....	.....	.....	2	1·02	8·21	4·25	67·24	73·98
		Chandpore ...	0·05	.....	.....	.....	.....	.....	.....	1	0·05	5·12	6·16	56·78	73·72
		Brahmunberia ...	0·18	.....	.....	.....	.....	.....	.....	1	0·18	5·37	4·79	54·64	60·38
		Ramchandrapore ...	0·27	.....	.....	.....	.....	.....	.....	1	0·27	8·45	?	76·11	?
		Nasirnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·80	?	34·81	?
		Daudkandi ...	0·70	.....	.....	.....	.....	.....	.....	1	0·70	5·21	?	30·44	?
		Kasba ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·84	?	51·71	?
		Laksham ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·22	?	68·55	?
	Mymensingh ...	Kishoreegunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·10	5·32	68·87	68·76
		Atia (*Tangail*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·95	4·92	55·81	54·62
		Mymensingh ...	0·40	.....	.....	.....	.....	.....	.....	1	0·40	8·88	5·73	78·00	73·08
		Jamalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·20	5·02	79·16	64·25
		Netrokona ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·92	6·00	80·54	80·00
		Subornakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·86	?	57·83	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11·83	?	118·07	?
		Sherepore Town ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·48	?	67·41	?
		Dewanganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11·02	?	72·90	?
	Pubna ...	Pubna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·14	4·82	46·08	53·29
L.		Serajgunge ...	0·01	.....	.....	.....	.....	.....	.....	1	0·01	7·11	4·40	62·67	51·81
	Bogra ...	Sherepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·18	4·17	77·27	57·21
		Nowkhilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·18	5·11	66·42	53·25
		Bogra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·06	3·98	79·24	60·16
		Panchbibi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·05	4·31	91·46	55·26
	Rajshahye ...	Beauleah ...	.....	.....	.....	.....	.....	.....	0·12	1	0·12	10·48	4·46	71·34	52·25
		Nattore ...	.....	.....	.....	.....	.....	.....	0·07	1	0·07	10·00	4·44	87·29	53·03
		Naogaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·63	2·29	66·15	51·82
		Lalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·66	?	52·38	?
		Manda ...	.....	.....	.....	.....	.....	.....	0·70	1	0·70	12·97	?	48·04	?
	Maldah ...	Maldah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·87	4·39	64·62	50·82
		Chanchal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·33	2·99	59·62	55·92
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·53	?	84·40	?
		Sibganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·10	?	62·54	?
	Dinagepore ...	Mohadebpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8·51	3·04	67·94	55·86
		Churamon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	9·78	2·43	80·28	52·01
		Raigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·77	3·74	92·75	57·48
		Dinagepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·78	5·16	86·80	63·44
		Balcorghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·39	3·39	81·01	51·90
		Thakoorgaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	17·31	?	107·04	?
	Rungpore ...	Buxwanigunge (*Gyabanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	20·20	5·14	123·00	61·98
		Rungpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	19·95	5·32	96·56	73·97
		Kurigram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	17·57	4·38	95·59	72·50
		Bagdogra (*Nilphamari*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	15·37	4·67	111·28	83·85
		Ulipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	17·78	?	97·52	?
	Julpigoree ...	Julpigoree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	18·29	5·63	156·26	116·63
		Alipore Dooar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·37	?	187·47	?
		Fallacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	16·59	?	140·30	?
		Debiganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·22	?	115·70	?
		Bhagatpore (*Nagrakatta*)	.....	.....	.....	0·06	0·19	.....	.....	2	0·25	15·49	?	182·64	?
	Cooch Behar ...	Dinhatta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	16·98	5·14	128·95	94·42
		Cooch Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·49	5·42	169·37	117·91
		Mickilgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·01	4·01	146·35	104·85
		Mathabhanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14·14	6·29	171·61	111·86
	Darjeeling Hill.	Buxa ...	.....	.....	0·20	0·01	0·69	.....	.....	3	0·99	20·68	10·24	210·64	190·72
		Silliguri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·30	4·34	178·31	101·99
		Darjeeling ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	10·62	6·97	150·32	107·10
		Kalimpong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·44	2·05	123·00	76·98
		Kurseong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	15·01	?	192·78	?
...HAR	Purneah ...	Kissengunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	13·32	3·35	105·38	69·62
		Arrareah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·43	3·54	83·78	63·11
		Purneah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·68	3·96	89·36	60·91
		Gondwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
		Baleramporo ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·75	?	100·45	?
		Matiari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·77	?	63·99	?
		Kaliaganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	7·40	?	118·55	?
	North Bhagulpor	Maddapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·23	4·30	61·61	48·96
		Soopool ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·50	2·92	63·21	47·58
		Protabganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·56	?	49·30	?
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·73	3·17	51·70	42·33
		Durbhunga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·37	3·02	53·56	45·98
		Madhubani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·09	2·61	62·61	44·29
		Bahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·84	?	53·58	?
		Rosbera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		?
	Mozufferpore	Sitamarhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·61	2·82	52·96	42·87
		Mozufferpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·56	3·49	56·13	44·60
		Hajipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·19	3·98	48·60	41·14
		Para ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·00	?	70·81	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·76	?	44·79	?
		Sheher ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·50	?	53·18	?
		Pupri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·84	?	50·19	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 31st of October 1890—conc

Meteorological Division.	District.	Station.	Rainfall. Saturday, 25th October.	Sunday, 26th October.	Monday, 27th October.	Tuesday, 28th October.	Wednesday, 29th October.	Thursday, 30th October.	Friday, 31st October.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Av ra (fro M a
North Behar —concluded.	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·46	3·50	72·06	
		Bettiah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·89	3·62	64·89	
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		
		Burhurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·12	?	58·36	
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·67	5·02	52·67	
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·21	4·00	59·84	
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·95	3·58	48·37	
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·80	3·36	52·47	
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·38	2·89	45·14	
		Bhabooah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·31	3·27	41·11	
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·94	3·74	44·19	
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·29	3·31	56·96	
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·51	2·76	59·49	
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·34	2·36	60·04	
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·43	2·63	54·84	
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·42	3·58	53·35	
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		
		Daudnagar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		
		Sherghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·67		36·61	
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	?	45·60	
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·97	?	54·34	
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·02	3·88	50·02	
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·97	3·27	52·13	
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·11	3·22	46·95	
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·25	3·17	43·25	
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·38	?	58·35	
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·07	?	50·24	
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·26	3·19	44·29	
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·36	3·56	54·84	
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·14	2·61	60·22	
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·34	?	76·44	
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·97	?	47·76	
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·41	3·16	59·77	
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·63	3·48	42·11	
		Kolgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·77	?	62·06	
		Bongaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6·59	3·34	56·26	
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·66	3·07	50·75	
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	12·19	4·52	74·16	
		Nya Doomka ...	.....	.....	.....	.....	.....	.....	0·11	1	0·11	12·35	4·30	74·11	
		Deoghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·18	4·33	49·43	
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	18·25	3·20	74·38	
		Mohasama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·28	?	48·81	
		Nunihat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		
Chutta Nagpur.	Hazaribagh ...	Pachamba ... (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·08	3·17	55·35	
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·38	3·25	49·95	
		Semtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·70	2·96	38·89	
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		2·56		
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·90	2·90	56·80	
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·00	?	50·24	
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·05	?	47·06	
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·89	?	57·34	
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·53	?	50·24	
	Lohardugga ...	Lohardugga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·76	2·89	53·19	
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·54	2·90	43·57	
		Palamow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·59	2·74	44·27	
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·40	?	43·50	
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·29	?	43·62	
		Hosseinabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75	
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·30	
	Singbhoom ...	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·78	2·92	33·94	[1]
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·70	?	24·83	
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·25	?	51·46	
		Baharagora	.....	.....	.....	.....	.....	.....	.....	Nil	Nil		?		
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·03	3·09	44·23	
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·59	3·57	38·63	
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·34	?	61·86	
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·90	?	44·15	
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·51	?	64·71	
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·22	?	50·18	

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the r are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 4th November* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 31st OCTOBER 1890.

WEATHER, especially in the early part of the week, has been settled and fine over the whole province except in the south-west corner, where the influence of shallow local depressions in the south of the Bay gave showers and rather strong winds during the last three days. The first of these depressions crossed the extreme south of the peninsula, and the second, forming to the east, gave squally weather as far north as Diamond Island, where wind velocity rose to 17 miles an hour on Tuesday. This depression continued to influence the weather for some days, but as it approached the Madras coast it became very diffused and disappeared, leaving the pressure distribution characteristic of the season. A current of moist air, due to the disturbance, flowed northwards, and gave cloudy weather and scattered showers in Orissa and Lower Bengal, the heaviest rain falling in the Balasore and Midnapore districts on Friday, the last day of the week.

At the commencement of the week pressure was above 30 inches in Bengal and Assam, with lowest pressure in the centre of the province. Westerly or northerly winds were blowing at nearly all stations, and temperature, below the normal except in Orissa and the adjacent part of South-West Bengal, was falling rather rapidly almost everywhere. Pressure during the week underwent the usual small oscillations, but was never below the normal, and wind velocity was invariably low, while directions were irregular from the 28th to the 31st.

Pressure rose moderately on the 25th, fell slowly on the 26th, again rose moderately on the 27th, after which there was a slow fall till the last day of the week, when there was a very slow rise, the distribution being very little different from that at the beginning, but with lowest pressure in Orissa and isobars running east and west instead of north and south. The weekly means are above the normal except over the Darjeeling Hills, where, however, defect is only ·003 inch. Elsewhere excess varies from a hundredth of an inch in the west of Assam and east of North Bengal to more than a twentieth of an inch in the southern districts.

Temperature has been generally below the normal except in Assam and Orissa, in the former of which mean excess is ·4° and in the latter 1·1°. Defect is 2° in South Behar, 1·8° in Chutia Nagpur, 1·2° in North Behar, 1° in East Bengal, ·9° in South-West Bengal, and ·7° in North Bengal. The somewhat rapid fall of temperature at the beginning of the week continued till the 27th, when defect was between 3° and 4° at many stations, and averaged more than 3° in Chutia Nagpur and South Behar, and more than 2° in South-West Bengal. During the last four days changes were more irregular, but generally upwards. On the 31st excess prevailed except in Behar, North Bengal, and Assam, where there was still defect ranging up to 2°.

Rainfall.—Showers fell in East Bengal in the beginning of the week, and in Orissa and South-West Bengal at the end, while in the northern districts practically no rain has been received. Behar and Chutia Nagpur have been entirely rainless, and the average fall for North Bengal is only ·01 inch. In the southern districts the mean falls are deficient, in East Bengal by ·64 inch, in South-West Bengal by ·53 inch, and in Orissa by ·15 inch. Somes heavy showers fell on Friday, Contai in the Midnapore district receiving 4·47 inches and one or two other stations more than one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 31st of October 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	90·4	68·9	86·9	73·5	80·2	+1·1	0·98	1·13	—0·15	1·3	1·3	0	8·51	6·16	61·08	51·24
South-West Bengal ...	89·3	62·1	85·6	68·6	77·1	—0·9	0·20	0·73	—0·53	0·2	0·9	—0·7	8·07	4·33	56·66	51·00
East Bengal	86·2	65·8	84·0	70·1	77·1	—1·0	0·25	0·89	—0·64	0·5	1·0	—0·5	6·92	5·43	71·25	72·59
North Bengal	87·8	63·3	84·5	67·3	75·9	—0·7	0·01	0·58	—0·57	0·1	0·6	—0·5	12·30	4·38	94·67	69·67
North Behar	90·4	58·9	84·7	65·4	75·1	—1·2	Nil	0·60	—0·60	0·0	0·3	—0·3	3·59	3·54	64·38	47·90
South Behar	89·9	57·8	85·1	63·0	74·1	—2·0	Nil	0·61	—0·61	0·0	0·4	—0·4	3·78	3·30	54·57	42·97
Chutia Nagpur	81·5*	55·9*	80·5*	59·9*	70·2*	—1·8*	Nil	0·45	—0·45	0·0	0·7	—0·7	2·07	2·97	45·98	47·94
Assam	89·5	63·8	84·4	69·7	77·1	+0·4										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL; *The 4th November* 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 26th October to 1st November 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Oct.	26th	138·5	10·3	29·928	75·6	83·4	16·1	67·3	70·2	0·669	67·3	77	WNW and calm ..	13	Nil	Clear, ⌓.
,,	27th	143·5	10·3	·939	75·4	83·4	16·5	66·9	70·6	·686	68 0	79	WSW and calm ...	19	,,	Clear, ⌓.
,,	28th	141·6	9·8	·972	75·4	82·8	15·6	67·2	70·5	·685	68·0	79	Variable and calm...	9	,,	Chiefly clear, ⌓.
,,	29th	137·7	9·4	·939	75·6	82·8	14·6	68·2	71·3	·713	69·1	82	NNW and calm ...	12	,,	Chiefly clear, ⌓, ≡.
,,	30th	141·1	6·5	·921	76·6	83·1	13·6	69·5	72·7	·753	70·7	83	ENE and calm ...	22	,,	Partialy cloudy, o, ⌓.
,,	31st	145·5	4·0	·938	77·6	83·5	11·1	72·4	74·4	·819	73·2	86	ESE and calm ...	27	,,	Chiefly cloudy, o.
Nov.	1st	144·0	3·5	·932	74·3	82·4	11·1	71·3	72·0	·755	70·8	89	Variable and calm...	36	0·01	Chiefly cloudy d, ⌓.

	Inches.
The mean pressure of the seven days	29·938
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·887
	Hours.
The total number of hours of bright sunshine	53·8
The maximum possible number of hours of sunshine	79·2
	°
The mean temperature of the seven days	75 8
The average temperature of the corresponding period for 24 years, S.-G.'s Office	78·9
The extreme variation of temperature	16·6
The maximum temperature	83 5
	Miles.
The highest velocity of the wind in one hour	5
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	82
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	75
	Inches.
The total fall of rain from 26th October to 1st November 1890	0·01
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·84
The total fall from 1st January to 1st November 1890	61·25
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	64·52

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; d, drizzling rain, ⌓, dew; ≡, fog.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, Govt. of India;
Calcutta, the 3rd November 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 26th October to 1st November 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
October ...	26th ...	29·989	77·2	85·4	16·5	68·9	81·1	69·6	·570	62·6	54	...
,, ...	27th ...	·996	76·5	85·1	17·2	67·9	80·9	73·6	·732	69·9	70	...
,, ...	28th ...	30·033	76·4	84·2	15·6	68·6	81·3	71·6	·646	66·2	61	...
,, ...	29th ...	·026	79·4	84·9	11·1	73·8	79·1	72·9	·729	69·8	73	...
,, ...	30th ...	29 989	77·6	84·4	13·6	70·8	82·6	76·3	·823	73·4	74	...
,, ...	31st ...	30 005	79·1	84·9	11·6	73·3	79·1	74·5	·794	72·3	80	...
November...	1st ...	29·987	77·6	82·9	10·7	72·2	80·6	75·0	·794	72·3	76	...

	Inches.
The mean 10 A.M. pressure of the seven days	30·004
The mean temperature of the seven days	77·7
The extreme variation of temperature	17·5
The maximum temperature	85·4
	%
The mean 10 A.M. relative humidity of the seven days	70
	Inches.
The total fall of rain from 26th October to 1st November 1890 ...	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 3rd November 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 11th October 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 11th October 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 29·5 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 5·3 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1889—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of births per 1,000 of the population per annum	29·4	18·1	26·9	16·8	29·8	24·2	29·5

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.	11th Oct. 1890.	Towns.	Weeks ending— 20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.	11th Oct. 1890.
Burdwan	21·4	16·8	53·4	18·7	Narainganj	37·3	41·4	37·3	49·7
Midnapore	13·9	9·3	17·0	14·8	Chittagong	4·7	11·7	9·4	9·4
Hughli and Chinsurah	39·4	18·1	34·5	41·9	Comillah	19·3	27·0	15·4	27·0
Serampore	45·1	41·2	47·1	49·1	Patna City	14·6	11·4	19·8	12·3
Utterpara	37·7	28·3	9·4	37·7	Gya	42·4	26·0	36·9	30·7
Howrah	21·8	22·9	25·2	29·1	Arrah	57·4	19·1	47·9	45·5
Bali	10·5	17·5	28·1	31·6	Mozufferpore	25·5	24·3	24·3	29·2
Krishnagar	17·0	17·0	26·5	9·5	Durbhanga	37·0	38·5	40·9	43·2
Ranaghat	12·0	24·0	12·0	12·0	Chupra	38·2	13·1	38·2	46·5
Santipore	14·0	5·2	26·3	17·5	Bhagulpore	19·9	29·0	26·3	42·5
Jessore	.....	12·2	.....	6·1	Monghyr	46·1	39·8	57·9	58·8
Rampore Beauleah	57·8	57·8	68·1	39·4	Purneah	11·4	10·4	10·4	20·8
Darjiling	37·0	44·5	22·2	51·9	Poori	12·6	12·6	14·7	18·9
Dacca	15·6	21·4	13·0	18·8	Total ...	26·6	22·2	29·7	29·5

It will be seen that last week the highest birth-rate was returned from Monghyr (58·8) and the lowest from Jessore (6·1).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 25·3 per 1,000 of the population. The rate of the week is 3·6 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of deaths per 1,000 of the population per annum	37·1	25·9	31·0	20·5	30·2	28·9	25·3

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.	11th Oct. 1890.	Towns.	Weeks ending— 20th Sept. 1890.	27th Sept. 1890.	4th Oct. 1890.	11th Oct. 1890.
Burdwan	19·8	24·4	30·5	24·4	Narainganj	16·6	4·1	16·6	37·3
Midnapore	17·0	18·6	15·5	27·9	Chittagong	14·1	16·4	9·4	16·4
Hughli and Chinsurah	24·6	21·3	24·6	27·9	Comillah	19·3	15·4	7·7	15·4
Serampore	29·4	49·1	29·4	43·2	Patna City	14·9	19·8	14·9	20·4
Utterpara	28·3	18·9	28·3	28·3	Gya	38·9	39·6	47·1	54·0
Howrah	13·2	14·9	18·9	14·8	Arrah	35·9	55·5	18·2	22·9
Bali	38·6	35·1	24·6	28·1	Mozufferpore	26·8	15·2	31·5	24·3
Krishnagar	11·4	18·9	18·9	5·7	Durbhanga	34·2	33·0	35·4	28·7
Ranaghat	29·9	6·0	6·0	12·0	Chupra	28·2	11·1	34·2	27·2
Santipore	14·0	.....	12·3	3·5	Bhagulpore	17·2	20·8	14·5	14·5
Jessore	18·4	6·1	18·4	30·6	Monghyr	35·3	28·9	30·7	29·8
Rampore Beauleah	31·5	36·8	36·8	44·7	Purneah	17·3	6·9	10·4	17·3
Darjiling	14·8	37·0	22·2	44·5	Poori	21·0	14·7	25·2	42·0
Dacca	21·4	22·1	17·5	16·2	Total ...	23·4	22·4	23·9	25·2

It will be seen that last week the highest mortality occurred in the town of Gya (54·) and the lowest in Santipore (3·5).

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes occurred in the following towns:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Gya	9·6	Rampore Beauleah ...	39·4	Poori ...	14·7
Durbhanga	9·4	Gya ...	36·2	Midnapore ...	13·9
Mozufferpore ...	7·3	Burdwan ...	22·9	Serampore ...	13·7
Arrah	7·2	Serampore ...	21·6	Monghyr ...	12·6
Chupra	5·0			Chupra ...	11·1
Patna City ...	4·9				

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3· from cholera, against 2·3 per 1,000 in the preceding week; ·2 from small-pox, against ·5; 12·7 from fever, against 11·7; 2·6 from bowel-complaints, against the same ratio; ·6 from injury, against ·3; and 6·1 from other causes, against 5·6 in the preceding week. The mortality from bowel-complaints is noticeably severe only in the Poori town, there being nine deaths (18·9 per 1,000 of the population).

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	26·9	Christians ...	14·9	Under 1 year ...	188·5
Females	23·5	Hindus ...	27·8	1 and under 5 years ...	33·0
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	114	Mahomedans ...	19·2	5 „ 10 „ ...	18·4
				10 „ 15 „ ...	12·4
				15 „ 20 „ ...	8·4
				20 „ 30 „ ...	12·3
				30 „ 40 „ ...	17·2
				40 „ 50 „ ...	18·7
				50 „ 60 „ ...	32·2
				60 years and upwards ...	70·4

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

The 3rd November 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 11th October 1890.

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.															Sex.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.											
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan ...	18,063	16,017	34,080	6	3	9	9·1	4·6	13·7	200	..	...	15	1	...	...	16	...	...	22·9	1·5	...	...	24·4	30·5	10	6	28·8	19·5	147
Midnapore ...	Midnapore ...	16,927	16,633	33,560	7	5	12	10·8	7·7	18·5	140	...	1	4	3	1	9	18	...	1·5	6·2	4·6	1·5	13·9	27·9	15·5	9	9	27·6	28·1	98
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	15	10	25	24·6	16·4	41·0	150	...	...	8	3	...	6	17	...	...	13·1	4·9	...	9·8	27·9	24·6	10	7	32·8	23·0	142
Serampore ...	Serampore ...	13,559	12,937	26,496	13	12	25	25·5	23·6	49·1	108	...	...	11	2	2	7	22	...	...	21·6	3·9	3·9	13·7	43·2	29·4	13	10	46·0	40·2	114
	Utterpara	3,046	2,464	5,510	3	1	4	28·3	9·4	37·7	300	...	...	1	...	...	2	3	...	...	9·4	...	...	18·9	28·3	28·3	2	1	34·1	21·1	161
Howrah ...	Howrah	53,153	37,660	90,813	27	24	51	15·5	13·7	29·2	113	1	...	15	6	1	9	32	·6	...	8·6	3·4	·6	5·1	18·3	18·9	19	13	18·6	18·0	103
	Bali	7,836	6,979	14,815	5	4	9	17·5	14·0	31·6	125	1	...	6	...	...	1	8	3·5	...	21·1	...	...	3·5	28·1	24·6	3	5	19·9	37·3	53
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	2	3	5	3·8	5·7	9·5	66	...	...	2	...	1	...	3	...	...	3·8	...	1·9	...	5·7	18·9	1	2	3·9	7·5	53
	Ranaghat	4,028	4,655	8,683	2	...	2	12·0	...	12·0	No female birth.	...	...	1	...	...	1	2	...	...	6·0	...	...	6·0	12·0	6·0	...	2	...	22·3	No male death.
	Santipore	13,708	15,979	29,687	5	5	10	8·7	8·7	17·5	100	...	...	1	...	...	1	2	...	...	1·7	...	...	1·7	3·5	12·3	1	1	3·8	3·3	115
Jessore ...	Jessore	4,830	3,665	8,495	1	...	1	6·1	...	6·1	No female birth.	...	...	3	...	2	...	5	...	...	18·4	...	12·2	...	30·6	18·4	2	3	21·5	42·6	50
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	11	4	15	23·9	10·5	39·4	275	...	...	15	...	1	1	17	...	...	33·4	...	3·6	2·6	44·7	36·8	10	7	48·3	40·3	120
Darjiling ...	Darjiling	4,579	2,439	7,018	3	4	7	23·2	29·6	51·9	75	.	...	3	2	..	1	6	...	...	22·2	14·8	...	7·4	44·5	22·2	4	2	45·4	42·6	126
Dacca ...	Dacca	42,782	37,379	80,161	16	13	29	10·4	8·4	18·8	123	1	...	7	7	1	12	28	·6	...	4·5	4·5	·6	7·8	18·2	17·5	14	14	17·0	19·5	87
	Naraingunj ...	7,605	4,956	12,561	6	6	12	24·8	24·8	49·7	100	1	...	5	1	...	2	9	4·1	...	20·7	4·1	...	8·3	37·3	16·6	8	1	54·7	10·5	521
Chittagong ...	Chittagong ...	13,340	8,790	22,130	2	2	4	4·7	4·7	9·4	100	...	...	4	2	...	1	7	...	...	9·4	4·7	...	2·3	16·4	9·4	6	1	23·4	5·9	398
Tipperah ...	Comillah	8,153	5,353	13,506	3	4	7	11·6	15·4	27·0	75	...	...	2	...	...	2	4	...	...	7·7	...	...	7·7	15·4	7·7	2	2	12·8	19·4	65
Patna	Patna City ...	78,762	81,475	160,237	16	22	38	5·2	7·1	12·3	73	15	E	25	6	1	15	63	4·9	·3	8·1	1·9	·3	4·9	20·4	14·9	35	28	23·1	17·9	129
Gya	Gya	38,290	37,831	76,121	23	22	45	15·7	15·0	30·7	104	14	...	53	2	...	10	79	9·6	...	36·2	1·4	...	6·8	54·0	47·1	44	35	59·8	48·1	124
Shahabad ...	Arrah	20,960	22,505	43,465	15	23	38	17·9	27·5	45·5	65	6	...	12	...	1	1	20	7·2	...	14·3	...	1·2	1·2	23·9	13·2	7	13	17·4	30·0	58
Mozufferpore..	Mozufferpore ...	23,084	19,658	42,742	16	8	24	19·5	9·7	29·2	200	6	...	9	...	...	5	20	7·3	...	10·9	...	...	6·1	24·3	25·5	11	9	24·8	23·8	104
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	35	20	55	27·5	15·7	43·2	175	12	...	16	3	...	3	34	9·4	...	12·6	2·3	...	2·3	26·7	35·4	20	14	30·8	22·5	136
Sarun	Chupra	25,116	26,554	51,670	27	21	48	27·2	21·1	48·3	128	5	1	7	2	1	11	27	5·0	1·0	7·0	2·0	1·0	11·1	27·2	34·2	10	17	20·7	33·3	62
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	24	23	47	21·7	20·8	42·5	104	...	...	11	2	...	3	16	...	...	10·0	1·8	...	2·7	14·5	14·5	13	4	21·1	7·5	281
Monghyr ...	Monghyr	28,754	29,366	57,520	40	25	65	36·2	22·6	58·8	160	...	...	·17	2	...	14	33	...	...	15·4	1·8	...	12·6	29·8	30·7	19	14	35·1	24·8	141
Purneah ..	Purneah	8,463	6,553	15,016	1	5	6	3·5	17·3	20·8	20	...	...	4	...	...	1	5	...	...	13·8	...	...	3·5	17·3	10·4	2	3	12·3	23·8	51
Poori	Poori	13,247	11,537	24,784	5	4	9	10·5	8·4	18·9	125	...	1	3	9	...	7	20	...	2·1	6·3	18·9	...	14·7	42·0	25·2	13	8	47·1	36·1	130
	Total ...	550,986	510,588	1,061,574	329	273	602	16·1	13·4	29·5	120	62	4	260	53	12	125	516	3·0	·2	12·7	2·6	·6	6·1	25·2	23·0	285	231	26·9	22·5	114

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO— Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of Population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan ...	Burdwan	...	11	5		..	...	24·2	25·3	...	...
Midnapore ...	Midnapore ...	...	13	5	.	..	..	26·1	36·0	.	...
Hughli ...	Hughli and Chinsurah	...	15	2	..	.	...	30·9	16·9	...	..
Serampore ...	Serampore ...	...	20	2	..	.	...	41·2	110·9	..	..
	Utterparn	...	3	...	...	..	...	29·3	...	..	...
Howrah ...	Howrah	...	23	6	...	...	.	19·8	15·2	..	...
	Bali	1	7	...		..	1,329·4	27·1	.	...	...
Nudden ...	Krishnagar ...	...	3	...	..	...	...	8·4	...	...	...
	Ranaghat	...	2	.	...	...	...	14·2	...	.	...
	Santipore	...	2	.	..	...	..	5·0	..	..	...
Jessore ...	Jessore	...	3	2	..	...	...	34·6	27·2	...	...
Rajshahye ...	Rampore Beauleah	...	5	12	...	...	..	26·2	63·0	...	...
Darjiling ...	Darjiling	...	5	1	...	...	...	50·6	85·0	...	...
Dacca	Dacca	...	18	19		..	...	23·2	13·2	...	...
	Narainganj ...	...	7	2	...	.	...	57·6	16·9	...	...
Chittagong ..	Chittagong ...	1	...	6	...	..	67·3	...	20·4	...	...
Tipperah ...	Comillah	...	1	3	..	...	..	8·7	21·1	...	...
Patna	Patna City ...	...	54	9	...	...	..	23·6	11·4	...	...
Gya ...	Gya	...	69	10	...	..	..	59·8	52·3	...	...
Shahabad ...	Arrah	...	16	4	..	..	..	26·5	16·8	...	.
Mozufferpore ..	Mozufferpore ...	..	14	6	.	...	..	24·2	25·0	..	...
Durbhanga ...	Durbhanga ...	..	23	11	...	...		24·7	32·5	...	...
Sarun	Chupra	...	24	3	...	..	..	31·5	13·1	..	...
Bhagulpore ...	Bhagulpore ...	...	12	4	...	...	.	15·7	12·1	...	...
Monghyr ...	Monghyr	...	29	4	...	...	..	13·7	10·5	...	...
Purneah ...	Purneah	...	3	2	...	...	...	17·0	18·4	...	...
Poori ...	Poori	..	29	..	...	...	...	42·4	..	...	...
	TOTAL ...	2	445	169	...	...	14·9	27·8	19·2	...	...

Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
2	2	1	3	...	...	2	2	1	3
5	...	1	...	1	1	1	1	1	7
2	1	...	...	...	2	2	4	4	2
5	1	4	3	...	...	5	1	...	3
...	...	..	...	...	1	1	1	...	...
6	5	3	...	...	5	7	2	2	2
1	2	1	1	1	...	1	...	...	1
...	1		...	...	1	...	...	...	1
...	...	1	.	1	...	...	...	...	...
1	...	...	...	...	..	...	...	...	1
...	...	1	...	...	...	1	3	...	...
3	...	1	1	...	1	...	3	1	7
3	...	...	...	...	1	1	...	...	1
5	6	1	2	...	7	1	...	2	4
1	1	1	...	...	...	...	4	...	2
...	...	...	1	1	...	1	1	...	3
1	.	.	1	1	...	...	.	...	1
9	6	5	5	3	10	4	4	7	10
7	11	2	...	2	7	11	10	13	16
...	3	6	...	...	...	2	...	4	5
4	2	2	.	1	3	2	2	2	2
5	7	4	3	1	3	6	3	...	2
5	4	1	...	...	4	4	1	4	3
7	1	2	...	...	2	2	...	...	2
14	4	1	3	...	2	...	2	...	7
2	1	..		1	...	...	...	1	...
3	1	1	...	...	...	4	1	6	4
92	69	39	23	13	50	59	45	48	80

Ratio per 1,000 of Population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards
157·6	40·1	22·3	62·0	..	...	15·1	23·5	21·2	105·3
349·9	...	13·9	...	16·5	7·1	9·4	14·0	25·2	158·9
129·5	23·4	...	...	...	16·8	18·2	49·9	80·0	50·2
366·2	25·3	82·7	70·3	...	...	52·3	15·4	...	112·1
...	...	...	...	...	45·2	49·0	74·2	...	...
151·2	46·9	24·8	...	...	11·5	18·9	8·8	18·9	27·7
143·6	104·1	46·8	45·8	39·0	...	18·6	...	...	71·9
...	21·1	...	...	...	10·8	...	...	...	36·1
...	...	46·6	...	83·5	...	...	...	...	...
61·5	...	...	...	...	...	...	...	...	26·5
...	...	65·6	...	...	...	34·0	148·6	...	...
384·2	...	25·0	29·9	...	12·5	...	63·6	41·9	378·9
1,289·3	...	...	...	...	26·0	36·3	...	...	307·7
137·0	42·3	5·2	13·1	...	23·8	4·5	...	22·0	37·3
186·4	45·6	39·4	...	...	...	...	149·3	...	159·5
...	...	...	20·2	21·5	...	15·6	23·0	...	196·0
175·1	...	...	35·6	41·3	...	...	...	...	76·7
108·6	21·4	15·4	15·1	14·0	18·0	8·2	11·0	25·3	37·7
205·4	90·0	14·9	...	19·9	24·7	44·9	53·2	102·9	161·6
...	35·2	60·8	...	...	...	16·2	...	67·2	90·2
217·3	25·7	23·1	. .	17·2	15·2	14·9	20·8	32·0	42·7
107·0	47·8	26·6	28·1	12·9	11·7	23·0	21·0	...	32·6
221·1	40·3	8·7	...	...	22·5	26·7	8·6	50·3	45·9
304·9	9·6	17·7	...	...	9·5	11·2	...	..	28·9
490·2	83·4	7·4	27·2	...	10·1	...	16·3	...	101·5
367·5	43·0	...	...	52·3	...	...	...	55·5	...
514·9	28·9	23·2	...	...	...	51·3	15·6	139·8	118·2
198·5	33·0	15·4	12·4	8·4	12·3	17·2	18·7	32·2	70·4

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 3rd November 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of July 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	2,682	2,251	11,585	54	17,462	11,619	5,843	.....
Cotton, raw	2	117	10	67	119	77	42	.....
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	2,136	130	1,997	201	2,266	2,198	68	.....
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	1,660	3,411	1,386	2,239	5,071	3,625	1,446	.....
5.—Others	1,226	3,868	691	6,484	5,094	7,175	.....	2,081
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	.....	580	6	633	580	639	.....	59
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.....	881	1	1,011	881	1,012	.....	1,031
b.—Unscrewed	3	18,348	9	15,279	18,351	15,288	3,063	.....
2.—Gunny-bags and cloth	69	977	136	1,253	1,046	1,389	.....	343
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	1,233	58	1,055	114	1,291	1,169	122	.....
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	776	.....	1,3 2	8	776	1,330	.....	554
3.—Others	410	75	231	8	485	239	246	.....
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	170	3,183	102	4,823	3,353	4,925	.....	1,572
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	104	661	132	189	765	321	444	.....
3.—Others	445	178	348	483	623	831	.....	208
Railway plant and rolling-stock	.....	.....	5,282	2,518	10,985	7,780	3,205	.....
Salt	5,400	24	4,658	23	5,424	4,681	743	.....
Sugar—								
1.—Drained	975	205	347	484	1,180	831	349	.....
2.—Undrained								
Tea—								
1.—Foreign	.....	1,797	.....	1,640	1,797	1,640	157	.....
2.—Indian								
Wood—								
1.—Timber	50	33	178	46	83	224	.....	141
2.—Firewood	1,803	.....	1,948	.....	1,803	1,948	.....	85
Tobacco	62	2,077	85	2,773	2,139	2,858	.....	719
All other articles of merchandise—								
1.—Unmanufactured	4,509	2,605	2,928	2,248	7,114	5,176	1,938	.....
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Section) ...	537	.....	772	.....	537	772	.....	235
Total ...	24,312	41,450	35,169	43,478	89,285	78,647	17,666	7,028

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of July 1890.

Increases.	Tons.
Coal	5,843
For railway and flotilla consumption.	
Rice	1,446
This increase was contributed by stations on the Northern Section, the Calcutta market being favourable.	
Jute, unscrewed	3,063
Kooshtea, Goalundo, and Serajganj contributed about one-half of this increase and the Northern Section generally the remainder.	
Railway plant, &c.	3,205
For repairs and renewals.	
Salt	743
The increase appears in the bookings from Chitpur.	

Decreases.	
Jute, screwed	1,031
Narayanganj shows the principal falling off under this head.	
Oil-seeds	1,572
Good crops in the district, and an improved market.	
Tobacco	719
Kawnia and Rungpur show the principal decreases, said to be due to heavy rainfall and floods.	

CALCUTTA, *the 24th September* 1890.

F. P. QUINLAN,
Examiner of Accounts.

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of August 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	652	.....	1,576	.....	1,228	1,576	... ..	350
Cotton, raw	.....	3	.....	7	3	7	... ..	4
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	152	.....	164	.....	152	164	.....	12
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	155	73	3	103	228	106	122	.....
5.—Others	87	10	71	388	97	459	.. ...	362
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	.....	13	... ..	20	13	20	... ..	7
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrewed	.....	2,397	.....	5,865	2,397	5,865	.....	3,468
2.—Gunny-bags and cloth	2	.....	1	.....	2	1	1	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	90	8	66	22	98	88	10	.....
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	142	.....	76	.....	142	76	66	.....
3.—Others	147	.....	83	.....	147	83	64	.....
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	167	58	83	159	225	242	.....	17
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	.....	378	1	38	378	39	339	.....
3.—Others	22	36	11	36	58	47	11	.....
Railway plant and rolling-stock	.....	.....	10	20	11	30	.....	19
Salt	253	... ..	220	.....	253	220	33	.. ...
Sugar—								
1.—Drained	30	140	7	154	170	161	9	.....
2.—Undrained	34	39	27	32	73	59	14	.....
Tobacco								
All other articles of merchandise—								
1.—Unmanufactured	703	228	652	184	931	836	95	.....
2.—Manufactured								
Total ...	2,636	3,383	3,051	7,028	6,604	10,079	764	4,239

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of August 1890.

INCREASES.

	Tons.
Betel-nuts	339

From Bengal Central Flotilla stations only.

DECREASES.

Coal	350

Sufficiency of stock for Railway and Flotilla consumption.

Jute	3,468

The principal decrease was from Khoolna, and is said to have been due to the dulness of the market.

FRED HENSLEY,
Examiner of Accounts and Joint-Auditor.

CALCUTTA, *the* 11*th October* 1890.

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 4 weeks ended 27th September 1890, as compared with the same period of 1889.

STAPLES.	1890.		1889.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING — Horses, ponies, and mules	No. 60	911	No. 68	1,112	No.	.....	No. 8	201
ANIMALS, LIVING — Cattle	,, 228	3,160	,, 215	2,362	,, 6	798	,, ...	.....
ANIMALS, LIVING — Sheep and goats	,, 2,406	1,585	,, 3,258	2,738	,, ...	.....	,, 850	1,153
ANIMALS, LIVING — Other kinds	,, ...	.....	,, ...	.....	,, ...	.....	,, ...	.....
Horns	819	250	972	376	.....	.....	153	126
Canes and rattans	141	117	143	118	.....	.....	2	1
Caoutchouc (Indian-rubber)	4	8	1	1	3	7	.....	.....
Chinese and Japanese ware	1	1	2	2	.....	.....	1	1
Coal and coke, up	4,96,934	1,34,901	4,43,594	1,27,404	53,340	7,497	.....	.....
Ditto, down	27,07,829	3,69,646	25,24,623	3,37,983	1,83,206	31,663	.....	.....
Cotton, raw	19,392	17,862	5,706	3,868	13,686	13,994	.....	.....
COTTON, MANUFACTURED — Twist and yarn (European)	5,167	6,216	6,080	7,027	.....	.....	913	811
COTTON, MANUFACTURED — Ditto (Indian)	14,588	8,827	13,049	7,472	1,519	1,355	.....	.....
COTTON, MANUFACTURED — Piece-goods (European)	86,224	82,187	1,23,287	1,29,979	.....	.....	37,063	47,792
COTTON, MANUFACTURED — Ditto (Indian)	22,470	12,205	23,720	14,069	.....	.....	1,250	1,774
DRUGS AND MEDICINES — Asafœtida	12	25	109	62	.....	.....	97	37
DRUGS AND MEDICINES — Other sorts, not intoxicating	1,394	2,276	1,509	2,370	.....	.....	115	94
DRUGS AND MEDICINES — Intoxicating drugs (other than opium, i.e., arsenic, bhang, ganja, and charas, &c.)	581	417	516	334	65	83	.....	.....
DYEING MATERIALS — Indigo	3,217	1,503	3,569	991	.....	512	352	.....
DYEING MATERIALS — Madder or manjit	.....	.....	.....	.....	.....	.....	.....	.....
DYEING MATERIALS — Safflower	32	22	65	19	.....	3	33	.....
DYEING MATERIALS — Turmeric	11,649	9,852	7,897	3,962	3,752	5,890	.....	.....
DYEING MATERIALS — Other kinds	3,524	4,298	3,128	4,054	398	244	.....	.....
Earthenware and porcelain	473	845	504	904	.....	.....	31	59
FIBROUS PRODUCTS — Jute, raw	32,292	4,645	57,107	4,805	.....	.....	24,815	160
FIBROUS PRODUCTS — Do., manufactured (gunny-bags and cloths)	44,359	23,656	31,379	15,257	12,980	8,399	.....	.....
FIBROUS PRODUCTS — Other fibres, raw	4,997	1,175	3,523	1,897	1,474	.....	.....	722
FIBROUS PRODUCTS — Ditto, manufactured	3,656	1,818	1,910	971	1,746	847	.....	.....
FRUITS & NUTS — Cocoanuts	9,754	3,509	10,059	3,977	.....	.....	305	488
FRUITS & NUTS — All other kinds	20,679	17,072	23,622	14,873	3,057	2,799	.....	.....
GRAIN & PULSES — Wheat	2,70,579	78,042	2,12,159	77,852	64,420	1,000	.....	.....
GRAIN & PULSES — Gram and pulses	3,12,749	68,153	2,10,909	77,884	95,840	.....	.....	9,730
GRAIN & PULSES — Rice, husked	4,71,290	96,155	3,50,490	64,663	1,20,800	31,490	.....	.....
GRAIN & PULSES — Do., unhusked	63,512	7,474	67,972	7,284	.....	190	4,460	.....
GRAIN & PULSES — Other rain and spring crops	1,57,862	25,950	71,342	12,490	86,520	13,490	.....	.....
Government stores	24,781	44,805	20,091	31,788	3,790	13,017	.....	.....
Gums and resins	3,731	1,826	5,205	2,843	.....	.....	1,474	1,017
HIDES & SKINS — Hides of cattle	21,476	11,304	17,111	8,622	4,365	2,682	.....	.....
HIDES & SKINS — Skins of sheep, goats, and small animals	13,018	5,875	12,824	5,663	194	212	.....	.....
Horns	2,696	1,826	2,577	1,548	119	280	.....	.....
LAC — Lac, dye	128	80	124	77	4	3	.....	.....
LAC — Do., shell	6,972	3,287	2,361	283	4,611	3,004	.....	.....
LAC — Do., stick and other kinds	20,918	11,040	20,238	10,853	680	1,087	.....	.....
LEATHER — Leather, unmanufactured	2,194	2,448	2,718	3,546	.....	.....	524	1,098
LEATHER — Ditto, manufactured	3,031	3,532	3,133	4,138	.....	.....	102	606
Liquors	13,248	12,146	15,050	12,452	.....	.....	1,792	306
Mats	581	349	624	358	.....	.....	43	9
Minerals	64,004	15,553	97,160	17,915	.....	.....	33,556	2,362
METALS AND MANUFACTURES OF — Brass and copper	21,096	14,706	36,075	29,546	.....	.....	12,009	14,840
METALS AND MANUFACTURES OF — Iron	1,08,146	57,818	1,10,470	58,213	.....	.....	2,330	395
METALS AND MANUFACTURES OF — Other metals	7,103	6,571	6,108	5,974	1,000	597	.....	.....
Oils	71,285	24,484	58,182	32,820	13,103	.....	.....	8,336
Opium	896	814	586	1,004	313	.....	.....	250
Paints and colours	1,874	2,133	3,035	2,278	.....	.....	1,161	145
PROVISIONS — Ghee	27,295	20,746	27,063	20,684	232	62	.....	.....
PROVISIONS — Other kinds	5,511	4,707	5,867	5,723	444	.....	.....	956
Railway materials, Construction Account	2,20,507	5,108	1,49,410	4,450	71,097	658	.....	.....
Ditto ditto, Foreign	1,08,853	46,057	79,407	34,200	29,446	11,857	.....	.....
Salt	4,10,474	82,983	4,71,598	93,075	.....	.....	61,124	10,092
SALTPETRE, &c. — Saltpetre	23,078	9,049	46,651	18,010	.....	.....	23,573	8,961
SALTPETRE, &c. — Other saline substances	13,863	3,956	11,438	3,323	2,455	633	.....	.....
SEEDS (Oil-seeds) — Linseed	2,76,540	83,313	2,52,400	80,393	24,140	2,920	.....	.....
SEEDS (Oil-seeds) — Mustard and rape	44,930	7,063	92,580	17,333	.....	.....	47,650	9,420
SEEDS (Oil-seeds) — Til or ginjelly	1,973	312	1,893	232	80	80	.....	.....
SEEDS (Oil-seeds) — Other oilseeds	63,014	20,226	85,404	23,306	.....	.....	22,390	3,080
SEEDS (Other seeds) — Indigo seed	15,982	6,042	6,442	2,352	9,540	3,690	.....	.....
SEEDS (Other seeds) — Tea seed	.....	.....	.....	.....	.....	.....	.....	.....
SEEDS (Other seeds) — Other kinds	30,399	11,387	30,039	11,947	.....	.....	540	560
SILK — Silk, raw	931	786	1,558	1,129	.....	.....	627	341
SILK — Do., manufactured (European)	.....	.....	.....	.....	.....	.....	.....	.....
SILK — Do., ditto (Indian)	.....	.....	.....	.....	.....	.....	.....	.....
Spices	18,819	7,270	19,071	7,390	.....	.....	252	120
Stone and marble	2,19,768	25,190	1,91,408	18,036	28,360	7,154	.....	.....
SUGAR — Sugar, refined	90,309	29,066	92,066	22,707	.....	6,359	1,667	.....
SUGAR — Do., unrefined	48,644	10,702	47,514	8,892	1,330	2,070	.....	.....
TEA — Tea, Indian	4,113	3,974	4,718	5,304	.....	.....	605	1,330
TEA — Do., Foreign	.....	.....	.....	.....	.....	.....	.....	.....
Tobacco	23,644	7,957	30,537	10,256	.....	.....	6,893	2,299
WOOD — Timber	21,939	3,098	18,893	3,940	3,166	.....	.....	844
WOOD — Firewood	13,349	667	7,349	419	6,000	188	.....	.....
WOOL — Wool, raw	380	538	576	578	.....	.....	196	40
WOOL — Do., manufactured (European)	1,758	3,753	1,788	3,763	.....	.....	30	30
WOOL — Wool, manufactured (Indian)	1,335	1,228	1,983	2,246	.....	.....	648	1,018
WOOL — Shawls	.....	.....	.....	.....	.....	.....	.....	.....
All other articles of merchandise	1,98,915	1,00,952	1,99,071	1,17,208	4,844	.....	.....	16,256
Bones	23,909	7,092	11,983	3,307	11,918	3,695	.....	.....
Potatoes	37,024	11,514	35,020	10,938	2,004	576	.....	.....
Total	71,20,117	17,23,434	65,41,658	16,84,099	8,66,041	1,81,175	2,87,582	1,41,840

General remarks on the fluctuations of principal staples carried over the East Indian Railway during four weeks ended 27th September 1890.

INCREASES.

Coal and coke.—There was an increase both in the upwards and downwards traffic; that in the former was chiefly due to larger takings by the Bombay, Baroda and Central India Railway *viâ* Agra. The downwards increase was partly due to shipment to coast ports.

Cotton.—The increase was chiefly in despatches from Agra to Howrah and Cawnpore, for shipment and manufacture, respectively.

Turmeric.—Chiefly in despatches from Howrah to stations in the North-West Provinces.

Gunny bags.—The improvement in this staple was chiefly in despatches from Howrah and neighbouring stations, to Cawnpore, Delhi and the Punjab.

Rice (husked and unhusked).—The increase was due to considerable despatches of rice husked from stations on the Loop line to Howrah for shipment and to stations on the Oudh and Rohilkhand Railway

Other rain and spring crops.—Chiefly in despatches from stations on the Sahebgunge district to stations on the Dinapore district, and to the Bengal and North-Western Railway.

Government stores.—The increase was principally in ordnance stores from Howrah and Allahabad Fort to Firozepur, Rawalpindi and other stations on the North-Western Railway.

Railway material, Foreign.—Chiefly in despatches of rails and other material from Howrah to Benares Cantonment, Delhi, and Umballa.

Stone.—Principally in stone ballast from Pakur to Chitpore.

Sugar (refined and unrefined).—There was a decrease in the weight carried attended with an increase in the earnings, and this was chiefly due to long distance despatches from Howrah to stations on the North-Western Railway. There was a falling off in short lead traffic on the "B" and "C" districts.

Bones.—Chiefly in despatches from *vid* Digha Ghât and *vid* Moghalsarai to Bally and Chitpore.

DECREASES.

Piece-goods, European.—The falling off in this staple was chiefly in despatches from Howrah and Bombay *vid* Jubbulpore.

Gram and pulses.—There was an increase in the weight carried attended with a decrease in earnings; the former was chiefly due to short distance traffic from Loop line stations to Howrah for shipment and local consumption; the decrease in earnings was in long distance despatches from stations on the "D" district.

Brass and copper.—Chiefly in despatches from Howrah consequent on the dull state of the import business generally.

Salt.—The falling off under this head was chiefly in despatches from Howrah owing to the dull state of the market and to earlier despatches last year in anticipation of the Durga Poojahs.

Saltpetre.—Limited demand at Howrah.

Seeds.—This is a continuation of the decrease reported last month, and was chiefly in mustard and other oil-seeds.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, *the 31st October* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	245,689	2,90,967 0 0	19,54,912 0	4,89,815 12 0	16,847 5 0	7,67,630 1 0	68,739	74,933½	143,671½
Or per mile of railway ...	.....	190 11 9	.....	321 6 9	11 0 8	503 8 2	.....	.....	....
For previous 15 weeks of half-year	3,307,238	33,26,638 5 0	2,79,95,667 10	62,84,556 4 6	2,41,629 13 8	98,32,874 7 2	937,080	1,143,470½	2,080,550½
Total for 16 weeks ...	3,552,927	36,17,605 5 0	2,99,50,599 10	67,74,372 0 6	2,58,477 2 8	1,06,00,504 8 2	1,005,819	1,218,403½	2,224,221½
COMPARISON.									
Total for corresponding week of previous year	249,277	2,96,868 13 10	24,07,324 20	5,71,436 15 3	16,992 15 6	8,85,018 12 7	63,539	89,886	153,425
Per mile of railway corresponding week of previous year ...	.....	194 6 9	.....	374 2 5	11 2 3	579 3 5	.....	.....	.....
Total to corresponding date of previous year	3,313,546	39,09,555 15 5	3,22,81,901 0	77,06,439 3 2	2,64,193 10 6	1,12,73,179 13 1	1,039,702	1,276,100	2,315,802

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 28rd July 1883.

Receipts for week ending 19th October 1889.			Receipts for week ending 18th October 1890.			Total receipts from 1st April 1889 to 19th October 1889.			Total receipts from 1st April 1890 to 18th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	3,55,019	580	1,525½	7,67,630	503	1,525½	2,32,26,231	587	1,525½	2,17,19,625	491	.....	15,06,606

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	230,655	2,72,271 15 0	14,84,407 20	4,20,567 8 0	15,856 14 0	7,09,696 5 0	67,786½	70,736½	138,523½
Or per mile of railway	.....	178 7 8	.....	275 11 1	11 0 10	465 3 7	.....	.....	.....
For previous 16 weeks of half-year	3,552,927	36,17,655 5 0	2,99,50,599 0	67,24,372 0 6	2,58,477 2 8	1,06,00,504 8 2	1,005,819	1,218,402½	2,224,221½
Total for 17 weeks ...	3,783,582	38,89,927 4 0	3,14,35,006 20	71,44,939 8 6	2,74,334 0 8	1,13,10,200 13 2	1,073,605½	1,289,139½	2,362,755½
COMPARISON.									
Total for corresponding week of previous year	202,862	2,69,969 12 0	22,03,793 20	5,16,644 9 4	20,466 6 4	8,27,100 11 8	66,227	85,035	151,262
Per mile of railway corresponding week of previous year ...	.....	190 1 6	.....	338 10 9	13 6 8	542 2 11	.....	.....	.....
Total to corresponding date of previous year	4,021,410	41,90,845 11 5	3,51,85,294 20	76,25,074 12 6	2,94,660 0 10	1,21,00,280 8 9	1,105,930	1,361,125	2,467,054

FINANCIAL YEAR.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No XXI Railway, dated 23rd July 1883.

Receipts for week ending 26th October 1889.			Receipts for week ending 25th October 1890.			Total receipts from 1st April 1889 to 26th October 1889.			Total receipts from 1st April 1890 to 25th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	8,27,101	542	1,525½	7,09,696	465	1,525½	2,41,27,032	527	1,525½	2,24,29,131	490	.....	16,97,901

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th October 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*26,991	*23,051 9 0	39,946 10	2,773 3 0	21 13 0	24,846 9 0	2,305	474	2,679
Or per mile of railway	472	385 8 3	686 20	48 7 9	0 6 1	434 6 1	.....	.....	.....
For previous 15 weeks of half-year	158,288	85,075 6 0	4,60,690 30	30,360 3 0	527 14 0	1,15,963 7 0	17,903½	8,162	26,065½
Total for 16 weeks ...	185,279	1,07,126 15 0	4,99,957 0	33,133 6 0	549 11 0	1,40,810 0 0	20,108½	8,636	28,744½
COMPARISON.									
Total for corresponding week of previous year	13,297½	7,823 10 5	37,862 20	2,451 8 0	41 1 0	10,316 3 5	1,803	744	2,547
Per mile of railway corresponding week of previous year ...	232½	136 12 5	662 0	42 13 9	0 11 6	180 5 8	.....	.....	.....
Total to corresponding date of previous year	220,733½	1,24,084 8 7	7,54,876 20	35,773 1 0	671 15 6	1,60,479 9 *1	23,177	11,684	34,861

* The increase in coaching traffic is on account of pilgrims returning from Gya.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 19th October 1889.			Receipts for week ending 18th October 1890.			Total receipts from 1st April 1889 to 19th October 1889.			Total receipts from 1st April 1890 to 18th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	10,316	180	57½	24,867	434	57½	2,74,475	165	57½	2,67,555	161	.....	6,920

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,813	11,666 2 0	29,792 3	2,207 4 0	28 12 6	13,902 2 0	1,924	470	2,394
Or per mile of railway	238	203 15 3	521 0	38 9 5	0 8 0	243 0 8	.....	.....	.....
For previous 16 weeks of half-year	185,279	1,07,186 15 0	4,99,667 0	33,133 6 0	549 11 0	1,40,810 0 0	20,108½	8,636	28,744½
Total for 17 weeks ...	198,592	1,18,793 1 0	5,29,749 30	35,340 10 0	578 7 0	1,54,712 2 0	22,032½	9,106	31,138½
Comparison.									
Total for corresponding week of previous year	12,531½	7,531 10 1	26,012 0	1,976 9 0	27 5 0	9,535 8 1	1,745	649	2,394
Per mile of railway corresponding week of previous year ...	219	131 10 9	454 30	34 8 10	0 7 8	166 11 3	.....	.....	.....
Total to corresponding date of previous year	233,965	1,31,566 2 8	7,80,388 20	37,749 10 0	699 4 6	1,70,015 1 2	24,932	12,313	37,285

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI Railway, dated 23rd July 1883.

Receipts for week ending 26th October 1889.			Receipts for week ending 25th October 1890.			Total receipts from 1st April 1889 to 26th October 1889.			Total receipts from 1st April 1890 to 25th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	9,536	167	57½	13,902	243	57½	2,64,011	160	57½	2,61,457	164	.....	2,554

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 18th October 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,382	3,570 3 0	8,535 0	321 7 0	6 0 0	3,897 10 0	924	44	968
Or per mile of railway	.....	160 7 4	.....	14 7 1	0 4 4	175 3 9	.....	.....	.....
For previous 15 weeks of half-year	242,245	58,718 3 0	75,771 10	3,141 4 0	74 10 0	61,934 1 0	13,541	693	14,234
Total for 16 weeks ...	256,627	62,288 6 0	84,306 10	3,462 11 0	80 10 0	65,831 11 0	14,465	737	15,202
Comparison.									
Total for corresponding week of previous year	16,685½	4,178 9 9	23,814 10	415 8 0	6 3 0	4,600 4 9	913	83	996
Per mile of railway corresponding week of previous year ...	.....	187 12 10	.....	18 10 10	0 4 5	206 12 1	.....	.....	.....
Total to corresponding date of previous year	234,911	68,947 2 0	1,15,500 0	3,385 5 0	83 12 9	72,416 3 9	14,774	856	15,630

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 19th October 1889.			Receipts for week ending 18th October 1890.			Total receipts from 1st April 1889 to 19th October 1889.			Total receipts from 1st April 1890 to 18th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	4,600	207	22½	3,898	175	22½	1,55,053	240	22½	1,50,680	234	.....	4,373

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 25th October 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,429	3,810 0 0	7,066 10	292 14 0	7 8 0	4,110 8 0	893	42	945
Or per mile of railway	.....	171 3 9	.....	13 2 7	0 5 5	184 11 9	.....	.....	.....
For previous 16 weeks of half-year	256,637	62,248 6 0	84,306 10	3,462 11 0	80 10 0	65,831 11 0	14,465	727	15,292
Total for 17 weeks	272,047	66,096 6 0	92,292 20	3,755 9 0	88 2 0	69,942 1 0	15,358	785	16,143
Comparison.									
Total for corresponding week of previous year	13,363	3,223 3 3	36,143 30	416 13 0	12 10 0	3,651 10 3	903	229	1,132
Per mile of railway corresponding week of previous year...	.....	144·13 1	.....	18 11 9	0 9 1	164 1 11	.....	.....	.....
Total to corresponding date of previous year	298,244	72,169 5 3	141,643 30	3,803 2 0	96 6 9	76,067 13 11	15,677	1,115	16,792

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No XXI Railway, dated 23rd July 1883

Receipts for week ending 26th October 1889.			Receipts for week ending 25th October 1890.			Total receipts from 1st April 1889 to 26th October 1889.			Total receipts from 1st April 1890 to 25th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,652	164	22½	4,110	185	22½	1,58,705	238	22½	1,54,790	232	.....	3,915

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K.-D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 11th October 1890, on 763 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	151,666	75,940 0 0	7,31,164 0	1,93,060 0 0	17,000 0 0	2,86,000 0 0	19,896	36,350	56,246
Or per mile of railway	198	100 0 0	958 0	253 0 0	†3 0 0	356 0 0	.....	.....	.....
For previous 14 weeks of half-year	1,915,862	7,81,209 0 0	78,93,393 0	19,60,905 0 0	2,06,473 0 0	*29,47,586 0 0	301,947	456,758	758,705
Total for 15 weeks ...	2,066,926	8,57,149 0 0	86,24,497 0	21,53,965 0 0	2,23,473 0 0	32,33,986 0 0	321,843	490,108	811,951
Comparison.									
Total for corresponding week of previous year	131,433	89,996 0 0	6,63,909 0	1,54,424 0 0	14,193 0 0	2,58,613 0 0	23,123	31,526	54,649
Per mile of railway corresponding period of previous year ...	176	80 0 0	889 0	207 0 0	†3 0 0	289 0 0	.....	.....	.....
Total to corresponding date of previous year	2,090,072	8,95,992 0 0	95,29,166 0	22,72,247 0 0	2,33,601 0 0	34,01,780 0 0	337,466	469,630	807,096

* Audited up to week ending 30th August 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 12th October 1889.			Receipts for week ending 11th October 1890.			Total receipts from 1st April 1889 to 12th October 1889.			Total receipts from 1st April 1890 to 11th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,33,613	306	763	2,86,000	75	13	85,37,222	277	759	*86,16,964	284	79,342	.....

* Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,930	9,680 0 0	69,800 0	6,520 0 0	70 0 0	16,270 0 0	3,668	2,000	5,668
Or per mile of railway	223	77 0 0	558 0	52 0 0	1 0 0	130 0 0	.....	.....	.....
For previous 14 weeks of half-year	349,729	1,06,709 0 0	5,28,231 0	41,747 0 0	2,468 0 0	*1,50,924 0 0	49,043	28,892	78,535
Total for 15 weeks ...	377,659	1,16,389 0 0	5,98,031 0	48,267 0 0	2,538 0 0	1,67,194 0 0	53,311	30,892	84,203
Comparison.									
Total for corresponding week of previous year	23,849	8,508 0 0	89,114 0	9,717 0 0	62 0 0	18,287 0 0	3,776	2,832	6,608
Per mile of railway corresponding period of previous year ...	191	68 0 0	713 0	78 0 0	... ..	146 0 0	.....	.....	.....
Total to corresponding date of previous year	413,439	1,36,918 0 0	9,97,901 0	96,111 0 0	2,713 0 0	2,35,742 0 0	52,734	38,778	91,512

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 12th October 1889.			Receipts for week ending 11th October 1890.			Total receipts from 1st April 1889 to 12th October 1889.			Total receipts from 1st April 1890 to 11th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	18,287	146	125	16,270	130	125	4,15,589	119	125	*3,32,702	95	... ..	82,887

* Audited up to week ending 30th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	18,920	5,830 0 0	29,520 0	2,630 0 0	120 0 0	8,580 0 0	2,410	710	3,120
Or per mile of railway	220	68 0 0	343 0	31 0 0	1 0 0	100 0 0	.....	.....	.....
For previous 14 weeks of half-year	266,193	65,899 0 0	1,93,236 0	16,409 0 0	4,076 0 0	*86,184 0 0	33,141	9,971	43,112
Total for 15 weeks ...	227,113	71,529 0 0	2,22,756 0	19,039 0 0	4,196 0 0	94,764 0 0	35,551	10,681	46,232
Comparison.									
Total for corresponding week of previous year	12,403	4,201 0 0	39,640 0	3,224 0 0	79 0 0	7,504 0 0	2,516	720	3,23
Per mile of railway corresponding period of previous year	144	49 0 0	461 0	37 0 0	1 0 0	87 0 0	.....	.....	.....
Total to corresponding date of previous year	219,087	68,647 0 0	3,30,562 0	24,333 0 0	3,248 0 0	96,228 0 0	37,405	13,498	50, 3

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 12th October 1889.			Receipts for week ending 11th October 1890.			Total receipts from 1st April 1889 to 12th October 1889.			Total receipts from 1st April 1890 to 11th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,504	87	86	8,580	100	86	3,70,507	71	86	*1,76,025	73	6,118	.....

* Audited up to week ending 30th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 11th October 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,980	1,070 0 0	18,110 0	950 0 0	20 0 0	2,040 0 0	380	170	750
Or per mile of railway	109	39 0 0	665 0	35 0 0	1 0 0	75 0 0	.....	.....	.....
For previous 14 weeks of half-year	39,937	13,956 0 0	1,32,408 0	7,264 0 0	209 0 0	*21,429 0 0	7,592	5,214	12,806
Total for 15 weeks ...	42,917	15,026 0 0	1,50,518 0	8,214 0 0	229 0 0	23,469 0 0	8,172	5,384	13,556
Comparison.									
Total for corresponding week of previous year	2,815	1,045 0 0	10,022 0	581 0 0	32 0 0	1,658 0 0	586	231	817
Per mile of railway corresponding period of previous year ...	103	38 0 0	368 0	22 0 0	1 0 0	61 0 0	.....	.....	.....
Total to corresponding date of previous year	44,827	16,473 0 0	1,37,488 0	9,028 0 0	1,295 0 0	26,796 0 0	8,640	5,472	14,112

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 12th October 1889.			Receipts for week ending 11th October 1890.			Total receipts from 1st April 1889 to 12th October 1889.			Total receipts from 1st April 1890 to 11th October 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	1,658	61	27¼	2,040	75	27¼	52,375	69	27¼	*49,481	65	.....	2,894

* Audited up to week ending 30th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

Combined System.

Approximate Return of Traffic for week ended 18th October 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat carriage.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	71,380	26,050	2,45,830	30,070	6,340	62,460	13,995	10,813	24,808
Or per mile of railway	103·30	37·70	355·76	43·51	9·18	90·39	.....	..	.....
For previous 14 weeks of half-year	1,081,270	4,18,259	35,90,524	4,41,780	94,497	9,54,536	176,695	166,262	342,957
Total for 15 Weeks ...	1,152,650	4,44,309	38,36,354	4,71,850	*1,00,837	10,16,996	190,690	177,165	367,765
Comparison.									
Audited figures.									
Total for corresponding week of previous year	71,777	26,893	2,86,619	25,481	5,513	57,887	9,989	11,751	21,740
Per mile of corresponding week of previous year on 649 miles open	110·60	41·44	441·63	39·26	8·49	89·19	.....	.....	.....
Total to corresponding date of previous year	1,149,998	4,21,402	41,30,509	4,77,444	1,23,865	10,22,711	176,399	200,944	377,343

* Steam-boat earnings for the week, Rs. 4,920.
Ditto ditto to date, „ 76,410.

* Ajodhya bridge earnings for the week, Rs. 100.
Ditto ditto to date „ 3,610.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 18th October 1890.			Receipts for week ending 19th October 1889.			Total receipts from 1st April 1890 to 18th October 1890.			Total receipts from 1st April 1889 to 19th October 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	62,460	90·39	649	57,887	89·19	672	23,40,676	124·56	649	23,30,264	121·31	2,412	.....

	F.E.—Railway of E. and N.-W. Section. Week ended 18-10-90.	Week ended 19-10-89.	Railways of Tirhoot Section. Week ended 18-10-90.	Week ended 19-10-89.
	Rs.	Rs.	Rs.	Rs.
Coaching ...	13,270	13,161	12,780	13,632
Goods ...	11,590	10,794	15,540	14,687
Other earnings ...	3,300	2,395	2,980	3,118
Total ...	28,160	26,450	31,300	31,437

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RESOLUTION ON THE ADMINISTRATION REPORT OF THE CALCUTTA MUNICIPAL CORPORATION FOR THE YEAR 1889-90.

MUNICIPAL DEPARTMENT—MUNICIPAL.

Darjeeling, the 4th November 1890.

RESOLUTION.

READ—

The Administration Report of the Calcutta Municipal Corporation for the year 1889-90.

This is the first report submitted by the Commissioners of the Town of Calcutta on the working of the Municipality under the Calcutta Municipal Consolidation Act II of 1888. As the area of the Town now comprises the amalgamated area of the Suburbs, the general statistics given are not comparable with those of previous years, and it is probably due to this cause, as well as to the fact that a new Chairman has been appointed after the close of the year, that the present report is in some respects less complete than others which have lately been submitted by the Commissioners. The Lieutenant-Governor observes that on previous occasions it has been usual for the Commissioners to summarise the reports they receive from their Health Officer and Engineer, and to describe in more or less detail in separate chapters the work done during the year in these departments. In the present year these important chapters have been omitted, while the subjects to which they refer have only received very

cursory treatment in an introductory chapter, and it is necessary to examine the departmental reports in order to obtain any adequate appreciation of the work really done by the Municipality. The object of an administration report is, however, to lay before the public and Government a self-contained account of the work done during the year, and the Lieutenant-Governor would therefore be glad if in future reports the Commissioners would revert to their former practice and arrange to furnish fuller information under the heads of Sanitation and Engineering. At the same time it might be possible to curtail some of the other sections of the report, and so not increase the dimensions of a volume which is already sufficiently bulky. The Lieutenant-Governor desires also to express a hope that in future it may be found possible to submit this report with greater punctuality. It is due to Government on the 1st August, but the present report was not received until the 17th of October.

Attendance of Commissioners.

2. As might have been expected during the first year of the amalgamation, the duties which devolved on the Commissioners were exceptionally onerous. There were 34 general meetings against 14 in the previous year; 125 meetings of standing Committees against 56; 66 of special Committees against 28; and 57 of Sub-Committees against 33. Altogether the total number of meetings was 282 against 131. There were no less than 26 members who attended 50 meetings or more during the year, and seven members (of whom three were nominated and four elected) who attended over 100 meetings. The Lieutenant-Governor considers that these results, showing how largely the Commissioners devote their time and trouble without remuneration to municipal duties, afford the most satisfactory evidence of the growth of public spirit in the metropolis. The account given of the principal subjects under discussion at these meetings indicates the importance and variety of municipal interests under consideration. Among other items may be mentioned the new Central Road, the question of burning the town refuse, the extension of water-supply and drainage to the Suburbs, the question of legislation for lepers, the protection of wild birds, the maintenance of a public library, the preparation of bye-laws, and the reorganization of establishments in the amalgamated area.

Loans.

3. The loan liability of the Corporation at the close of the year stood as follows:—

	Rs.
6 per cent. debentures	4,17,500
5 ditto	1,12,92,400
4½ ditto	10,48,300
	1,27,58,200
Consolidated loans from Government ...	60,11,610
	1,87,69,810

Two new 5 per cent. loans were raised during the year; one for 5 lakhs in June 1889 for water-supply, for which tenders amounting to Rs. 39,26,000 were received, and which was placed at an average premium of Rs. 5-14-6; and the other for 14 lakhs, which was incurred for both water-supply and drainage and the repayment of 6 per cent. debentures. The larger loan was raised in September, and the whole of it was taken up at rates varying from Rs. 3 to Rs. 5-12 premium. These results are satisfactory. The total borrowing power of the Commissioners is fixed by section 410 of the Act at such an amount as that the sum payable thereon annually by way of interest and as instalments due to the reserve funds shall not be more than 10 per cent. on the annual valuation of Calcutta. The amount of this valuation during the past year was Rs. 1,73,70,515, and at the present time, therefore, the Commissioners are legally competent to raise a loan liability on 5 per cent. debentures amounting to Rs. 3,46,00,000.

Income and expenditure.

4. The actual income of the Municipality during the year was Rs. 42,17,121, and the actual disbursements amounted to Rs. 41,87,831. The principal items of receipts and charges are as follows:—

Receipts.	Rs.	Expenditure.	Rs.
General rate at 9½ per cent.	17,34,869	Interest on general loans including drainage ...	4,25,237
Sewage rate, &c., at 2 per cent.	3,10,034	Contribution for repayment of general loans ...	1,72,933
Water rate at 6 and 3 per cent. ...	9,11,028	General establishment ...	3,86,080
Lighting rate at 2 per cent.	3,02,259	Road department ...	4,14,289
Taxes	4,95,821	Gowkhana	1,69,221
Municipal Market ...	1,20,477	Conservancy... ...	3,40,621
		Sewage rate charges ...	2,76,799
		Water rate charges, including interest on loans, Rs. 4,29,916, and contribution for repayment of loans, Rs. 1,70,917 ...	9,33,930
		Lighting, &c. ...	3,17,860

The total rates now realized amount to 19½ per cent. on the annual valuation of assessable property, against a maximum of 23 per cent. allowed under the law, and the total incidence of taxation of all sorts is at the rate of Rs. 6-8-1 per head of the population according to the census of 1881.

Collections and balances.

5. The Lieutenant-Governor observes that the receipts from rates fell considerably short of the budget estimate, the total receipts under the four rates being Rs. 31,78,704 as against the estimate of Rs. 33,47,000, a total deficit of Rs. 1,68,296. The only explanation which the Commissioners give of this unusual discrepancy is under the head of the general fund (paragraph 83), where it is ascribed to short bustee collections and disputed assessments. It is evident, on analysing the collections, that it is in fact due to a large increase in the outstanding balances. The usual statement, bringing together all the balances of the different departments, has been omitted from the present report; but if the items are picked out from paragraphs 97 to 109 the result is found to be as follows:—

	Outstanding balances of rate bills.	
	End of 1888-89.	End of 1889-90.
	Rs.	Rs.
In the hands of Assessor	58,173	67,489
Ditto of Collector	26,014	80,645
Ditto of Joint Collector ...	...	42,209
Ditto of Warrant Superintendent ...	93,841	1,51,933
	1,78,028	3,42,276
		1,78,028
Excess of 1889-90 over 1888-89		1,64,248

It will thus be seen that the excess of outstandings corresponds very closely with the deficit in the collections, showing that the estimate was approximately correct.

6. The increase in the arrears is very briefly explained by the Collector in paragraph 100, and somewhat more fully by the Joint-Collector for the Suburbs in paragraph 103. It appears that it is attributable to the inevitable temporary derangement of the collecting machinery due to the addition of a large suburban area, and also to changes in the system of rating introduced by the new Act. The difficulties under which the Collectors laboured may be thus summarised:—

(1) *The collections of five quarters of the house rate within the year* —This rate used to be collected during the succeeding quarter, while the whole of the consolidated rate in which it has been merged under the new Act is collected during the currency of the quarter for which it is due. The result was that the bill department had to get through the work of five quarters in a year, and necessarily fell much into arrears at its commencement, while more persons than usual postponed payment of their dues owing to the double demand for the first quarter.

(2) *The recovery of rates for bustees from the landlords.*—This measure, as might be expected, met with much opposition from the landlords, who have

petitioned the Lieutenant-Governor, and are now petitioning the Governor-General in Council, to revert to the former system of collecting the bulk of the rates direct from the hut-owners. Under any circumstances, the collections of this portion of the rates during the first year of the operation of the new Act must have fallen very short of the demand, but the difficulty was enhanced by the impossibility of making out correct bustee bills in many cases till after the annual valuation required by the Act. Apart from his ordinary work of revaluation, the Assessor was overwhelmed with objections from bustee owners, especially in the added area, where he had no trustworthy materials to refer to until the bustees had been revalued; and looking to the difficulties with which he had to contend, it seems to the Lieutenant-Governor to be highly creditable to this officer that he should have so far surmounted them at the close of the year that the arrears in his hands of all sorts were only Rs. 67,489 against Rs. 58,173 at the beginning of the year.

In the statement showing the working of the Collector's Department the collections on account of bustees are not separated from those of the landlords' share of the consolidated rate, and the report of the Commissioners therefore does not show clearly the extent to which the bustee collections fell short of the demand; but the Lieutenant-Governor gathers from the statistics which are given that the total demand for bustees was Rs 5,03,337, and that the arrears at the close of the year, excluding those for which the Collector is responsible, were—

	Rs.
In the hands of the Assessor	3,464
Ditto of the Joint Collector	14,843
Ditto of the Warrant Superintendent	51,962
	70,269

The total arrears in the hands of the Collector under the joint head of landlords' share of the consolidated rate and bustee bills were Rs. 60,102, while the arrears of the occupiers' share were Rs. 20,543; and if this latter figure can be taken as the measure of the similar arrears due from owners, it leaves Rs. 39,559 as the share of the bustee owners, in the hands of the Collector, thus raising the total arrears from all departments to Rs. 1,09,828. By the same process, viz., actual figures taken from the reports of the Assessor, Joint-Collector and Warrant Superintendent, and probable figures from the Collector's report, it appears that the amount remitted or cancelled was Rs. 20,979. It would seem, therefore, that the collections were approximately Rs. 3,72,590 out of the demand of Rs. 5,03,337, or 74 per cent. Considering the exceptional difficulties which beset the collection of these bills during the first year, this result is fairly satisfactory. The Lieutenant-Governor hopes that next year the Commissioners will furnish the statistics regarding these bills separately, and that they will show that good progress has been made in recovering the arrears. It is presumed that after a proper valuation has been made under the new Act of all the bustees in the old and added areas, the difficulties which are now experienced will disappear.

(3) *The increase in rates in the added area.*—Before the amalgamation the rate-payers in this area paid 7½ per cent. *plus* house service fees which varied with the valuation, but averaged about 4½ per cent. Under the new Act the rates were raised to 19 or 16 per cent., according as the water-rate was 6 or 3 per cent. So large an increase must obviously have augmented the reluctance of the rate-payers to pay with punctuality.

(4) *The unprecedented amount of work thrown upon the Assessor's department during the year of transition.*—This is another difficulty which, with the completed valuation of the bustees, may be expected to entirely disappear.

(5) *The new assessment section which has led to a general increase in the rating of residential houses.*—This has naturally been followed by an unusual number of objections, the decision of which throws much work on the Assessor's department, while the ratepayer refuses payment till his objection and appeal, if he appeals to the Small Cause Court, have been decided. This difficulty will only cease when the entire city has been revalued under the Act, and all objections and appeals have been disposed of.

It is thus evident that the collection of rate bills was rendered exceptionally difficult during the past year, and, under the circumstances, the increase in the outstandings does not appear to be larger than might have been reasonably expected; but of the five causes enumerated, only the 3rd and 5th will continue to operate during the present year, and their effect will be comparatively small. The Lieutenant-Governor trusts, therefore, that the year 1890-91 will close with the outstanding balance of the rate bills considerably reduced.

License Department.

7. The working of the License Department appears to have been satisfactory. The receipts from the trade and profession tax, which had never before exceeded Rs. 2,65,996, rose to Rs. 2,79,313 for the old area and Rs. 34,951 were collected for the added portion of the Suburbs. Here, however, as elsewhere, the report is disappointing in that no attempt has been made to illustrate the working of the new Act. Most important changes were introduced by that Act in the system of assessments, the gradation of trades and professions and the penal sections, and the manner in which they have worked ought to have been set forth in the annual report for the first year of its operation.

Valuation.

8. As already stated, the annual valuation of Calcutta for the past year was Rs. 1,73,70,515. The apparent increase is only Rs. 26,408, but the real increase is Rs. 2,76,408, after allowing for a nominal reduction of 2½ lakhs in the valuation of the Kidderpore dock premises. The Lieutenant-Governor understands that the Port Commissioners accepted a valuation of 7½ lakhs, being 7½ per cent. on the estimated capital outlay of their property, because under the Bengal Municipal Act they would only be called upon to pay one-fourth rates on the excess over one lakh of rupees; but that they demurred to this valuation being maintained under the Calcutta Municipal Consolidation Act, which fixes the lower percentage of 5 per cent. on the capital outlay, but charges full rates on the whole amount, and that they eventually consented to a compromise by which they should pay the full rates, but have the valuation reduced to 5 per cent. on the assumed capital outlay. Hence there is a nominal reduction in the assessed value which will, however, entail a considerable increase in the rates hitherto paid by the Port Commissioners. When the docks are completed a proper valuation will be made under the provisions of Act III (B.C.) of 1890.

Assessments.

9. The Commissioners appear to take an unfavourable view of the question of assessments under the new Act, and observe that "those who have to administer the law must experience considerable difficulty in working it." In the Lieutenant-Governor's opinion, however, the figures which are furnished by the Commissioners seem to show that the assessment provisions of the Act were worked with facility. The whole area of Calcutta must be revalued under the law every six years, and during the past year five wards out of twenty-five, or more than the due proportion, came under revaluation, and the work was completed by the Assessor with punctuality. The wards revalued were those in which under-assessment had been very general, and the valuation was raised by the Assessor from Rs. 25,41,387 to Rs. 31,53,952. Out of 1,414 objections which were preferred, no less than 1,249 were filed on or after the 16th of March, and of these 22 were disposed of before the close of the year. The whole of the objections filed before the 16th March were duly disposed of. It is observed also that out of the 212 objections decided by the Chairman and Vice-Chairman, only 6, of which 2 were pending and 4 have been rejected, were appealed to the Small Cause Court within the year. These results indicate satisfactory promptitude in the disposal of work. They also show that the assessment provisions of the law were administered with leniency. It is no doubt a judicious policy, upon the first introduction of a principle of assessment which, however fair and reasonable, does considerably increase the taxation of those who were formerly much under-assessed, to lean upon the side of moderation. But it must be remembered that under-valuation in one direction is equivalent to the unfair augmentation of the burdens of those whose property is fully valued, and that justice to the rate-payers in general demands that no particular section of the community shall be treated with favour or partiality. Upon the Chairman, the Vice-Chairman, and Assessor of the Corporation rests the responsibility of seeing that assessments are equitably made in accordance with the law.

Vital statistics.

10. Owing to the large fluctuating population of Calcutta it is not possible to estimate the increase or decrease, as is usually done, by the number of births and deaths, and the vital statistics of the town are therefore still calculated on the census of 1881. Upon this basis the number of deaths in the town proper was 26·9 per thousand against 27·7, the mean of the decade; while in the amalgamated area of the Suburbs it amounted to 46·9 per thousand. The number of cholera deaths in the town proper was 1,071, which, with two exceptions, is the lowest mortality since the introduction of a pure water-supply. The Health Officer observes—

"The years 1871 and 1880 had respectively 800 and 805 deaths. There is a marked periodicity about these low rates from cholera, which seems to point to some biological law in the life history of the cholera contagion, in the form perhaps of some periodic struggle for existence which, when recovered from, is followed under favourable conditions for a time with a remarkable vigour. To remove those favourable conditions is practically to stamp out cholera, a consummation which, as far as Calcutta is concerned, will no doubt in time be effected. In the days before the water-supply, *i.e.* before 1869, there was a similar periodicity, only with this difference, that the lowest annual number of deaths was 2,270 and the highest over 6,829, whereas after the introduction of the water-supply the lowest was 800 and the highest 2,272."

Water-supply.

11. Nothing could demonstrate more eloquently than these figures the immense sanitary boon conferred on Calcutta by the introduction of a water-supply. The Commissioners are to be congratulated on the vigour they have displayed in the administration of this department of the Municipality, and on the systematic manner in which they have extended the benefits received to all portions of the town. Shortly before the commencement of the official year under review a third pumping-station was opened at Halliday Street to remedy the scarcity of water in the riparian and other wards, and Dr. Simpson reports that the favourable effect on the cholera rate was at once marked and has been continuous. A fourth station will soon be constructed in Bhowanipore to supply the Suburbs. The work of connecting that portion of the Suburbs which could be directly supplied from the town mains was completed in September 1889, and at the close of the year the length of mains and services on the filtered system amounted to 184 miles. There are now 990 stand-posts on the filtered and 2,505 ground hydrants on the unfiltered system. The population supplied with filtered water at the date of the Engineer's report was 480,019, which includes 75,800 of the suburban amalgamated area. The supply had then reached an average of 35·4 gallons of filtered water and 8·9 gallons of unfiltered water per head of the population. Although these results have been attained at a great cost to the town, amounting in round figures to Rs. 1,42,72,897, there can be no doubt that this outlay has been amply repaid not only by the improved health of the inhabitants, but also by the increase of wealth and material prosperity which the reputation for improved sanitation has attracted to the city.

Ventilation of the city by proper streets and squares the most important sanitary want of Calcutta.

12. But important as the question of water-supply is, and beneficial as the outlay has been, the possession of good drinking-water is after all only one of the necessary conditions for the enjoyment of healthy life in a crowded city. When all has been said, it must be admitted that the conditions of life in the Metropolis of British India are still highly insalubrious. The cholera map of Calcutta is still simply a map in which the whole of the native town appears one mass of red dots indicating cholera deaths during the year, and the inspection of this map, with its record of more than one thousand deaths from preventible disease, cannot fail to awaken in the mind of every one who sees it a sense of how much there still remains to be done to improve sanitation. Sir Steuart Bayley has always cordially acknowledged the value of the work already accomplished by the Commissioners, but at the same time he has taken every opportunity of pointing to the work there still remains to do. The success they have attained must be their strongest incentive to further effort. The Health Officer of the Corporation has, therefore, in the Lieutenant-Governor's opinion, rendered a valuable public service in now calling attention in the most prominent manner to the ventilation of the city by proper streets and squares, and to the enforcement of proper building regulations, as the most important sanitary measures which it remains for the Municipal Commissioners

to undertake. Pure air is as much a necessity for the public health as pure water, and the overcrowding of buildings, as Dr. Simpson points out, not only impedes the circulation of air and disseminates disease along the poisonous alleys, often not more than three feet in width, which divide house from house and harbour the germs of all disease, but it prevents the possibility of laying down proper and efficient drainage and hinders and adds to the cost of scavenging. The diagrams which accompany the Health Officer's report show convincingly the urgent character of the remedies he proposes. They show at a glance how the ground is covered with houses without open space between, and how narrow streets, winding lanes and numerous passages afford complete obstacles to efficient ventilation. The fine new street, known as the Central Road, which the Commissioners have at great expense determined to cut through the most overcrowded and overbuilt portion of the city, is a very praiseworthy enterprise and most creditable to the Municipality. This road will be 70 feet wide with 50 feet for carriage way, and nearly two miles long from the Hooghly Floating Bridge to the Sealdah terminus of the Eastern Bengal State Railway. The first section of this road from the bridge to Clive Street has been completed; the land acquisition for the rest is proceeding, and a considerable portion at the Sealdah end has been cleared of buildings. This road, though it is progressing less rapidly than the Lieutenant-Governor could wish, is a most important and valuable sanitary improvement. But it is justly observed by Dr. Simpson that this one street, however excellent it may be, will exercise but a small influence in doing away with the evil of congested and unregulated buildings, unless streets from north to south and south to north be constructed to meet it. The great structural defect which prevails, especially in Burra Bazar, but also throughout the whole of the heart of Calcutta where the residents of the city dwell, is, and always has been, due to the toleration of too many houses and too many people on too limited a space, instead of forcing them to spread out on a wider area. The plan or construction of the city being radically defective, the supply of every other sanitary improvement is only palliative while that constitutional defect remains. It will never be possible to wipe away the reproach under which Calcutta labours as the home of cholera until the present germ-laden air is as purified from contagion as is the filtered water now drunk by the people.

13. The necessity of ventilation has been emphasised by the process of tank-filling which for years past has been going on in the city. Each one of these tanks was a cup of poison, and their obliteration therefore was a positive boon of the highest quality. In place of the water from these tanks, worse than London sewage as it was described, the purest possible water is now supplied from the Pulta water-works. On the other hand, these tanks were open spaces which allowed the admission of air and placed some restriction on the crowding together of buildings. But now the sites on which the tanks formerly existed are being built over without stint or any regard to structural considerations, and one evil is thus rapidly giving place to another.

14. The demand for residential houses is now so great in Calcutta that there is a marked tendency to construct brick houses on bustee sites. But unwholesome as were the bustees, it were almost better from a sanitary point of view to have bustees through which the wind can permeate than groups of high houses if these are to be separated from each other only by narrow, tortuous and foul alleys which, in Dr. Simpson's expressive words, "signify obstruction of traffic, obstruction of proper circulation of air, overcrowding of houses and inhabitants with all their attendant evils, foul and inefficient drainage and pollution of air by sewage, by sewer gas, by unremoved filth from defective scavenging, and by the organic products given off from animals and men living in a crowded state."

15. Dr. Simpson then points out that the executive is powerless to prevent these defects under the existing law or bye-laws, that there is no regulation as to the minimum width of existing or new streets, and that the only real control the Commissioners can exercise is by planning out the city under section 208 of the Act, with the aid of engineers and medical men, in accordance with certain laid down sanitary principles. There are also the problems of the ventilation of houses and the ventilation of rooms to be considered. For all these difficulties the Health Officer purposes remedies in detail, and suggests

that a Committee formed of engineers, medical men and others should be appointed to thoroughly investigate and report on the whole subject.

16. The Lieutenant-Governor trusts that this suggestion will receive the very early attention of the Chairman and of the Commissioners.

Drainage.

17. The most important work undertaken in the Drainage Department of the Municipality is the survey for drainage of the Suburbs, which is still in progress. There are two parties engaged, one for the south-eastern area and the radical outfall into the Biddiadhary river, and the other for the southern area, which is for surface drainage only.

Bustee cleansing, structural and Suburban improvement.

18. The total expenditure incurred on bustee cleansing and structural improvement during the year was Rs. 2,46,572. Under section 37, clause 7 of the new Act the Municipal Commissioners are required to devote to the improvement of the area added to Calcutta a sum of not less than three lakhs of rupees annually, and the Lieutenant-Governor requests that in future reports the manner in which this provision of the law has been complied with may be specifically stated. The information furnished on this subject in the present year's report is insufficient.

General.

19. Upon the whole there can be no doubt that the administration of the Calcutta Municipality during the past year was marked by very satisfactory progress, great attention to work on the part of the Commissioners, and improvement in all directions. The extension of the water-supply and of suburban drainage, the improvements in the flushing of the sewers, the large sums expended on maintenance of roads, the inception of the new Central Road, the experimental construction of refuse incinerators, the revision of assessments, the acquisition of land for a new *dhobikhana*, and many other important matters, sufficiently attest the activity of the Commissioners and of the officers of the Municipality in the discharge of their duties. The year was also marked by harmonious relations between the Commissioners and the Executive, and the Lieutenant-Governor is glad to observe in the present report the absence of any jarring or discordant note.

Services of Sir Henry Harrison

20. The Lieutenant-Governor cannot conclude this Resolution without expressing his high appreciation of the services which have been rendered to the City of Calcutta by the late Chairman, Sir Henry Harrison. For nine years he was Chairman of the Corporation, and the successful administration of the affairs of the Municipality during this long period, the firm financial credit of the Commissioners, the innumerable sanitary reforms effected, especially the extension of the water-supply and the conservancy of bustees, the increase in material prosperity in the city which in consequence of these reforms has shown itself in so marked a degree that the value of land in Calcutta generally may be said to have doubled, the reorganization and reconstruction of nearly every department of work, the hearty zeal and co-operation with which the Commissioners as a body now unite with the Executive to advance the welfare of the city,—an attitude for which they were not always distinguished, but which is in itself the best testimony to the capacity of a Chairman,—the methodical and systematic development of civic administration in all departments, are a sufficient and lasting tribute to the manner in which Sir Henry Harrison has discharged the duties of his responsible, difficult, and thankless office. His name will always be honourably associated with the growth of municipal institutions in the Metropolis.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE TRIBUTARY STATES OF ORISSA FOR THE YEAR 1889-90.

POLITICAL.

Dated Darjeeling, the 4th November 1890.

READ—

The Annual Report on the Administration of the Tributary States of Orissa for the year 1889-90.

Read also—

The Reports for the years 1887-88 and 1888-89 and the orders of the Lieutenant-Governor recorded thereon.

The Lieutenant-Governor is glad to observe that the instructions contained in last year's Resolution on this report have been followed in the preparation of the present one, which is concise and furnishes fuller statistics than before, but the Superintendent will be requested to observe greater punctuality in future in its submission. Mr. Hopkins held charge of the office of Superintendent of the Tributary Mehals of Orissa from the beginning of the year to the 31st December 1889, when he was relieved by Mr. Worsley, the present Superintendent.

2. Raja Balabhadra Sing Mandhata of Nayagarh having died heirless on the 2nd March last, Babu Raghunath Sing Hari Chandan, a relative of the late Chief, has been allowed by this Government to take possession of the guddi as a provisional arrangement, subject to the approval of the Government of India. This succession has been contested by the Raja of Khandpara, and the final decision of the matter is now under consideration.

3. The partial failure of crops in consequence of the irregularity and deficiency of the rainfall during the years 1887-88 and 1888-89 brought about a scarcity of food-grains in most of the Tributary States and the Government estates of Angul and the Khondmals during the past year. The States of Mohurbhunj, Nilgiri, Keonjhur, Pal Lehara, Dhenkenal, and Atgarh were little affected by the distress, but it was severe in other places, and was further augmented by the outbreak of cholera and small-pox, which considerably increased the mortality. The people who suffered most were the aboriginal and semi-Hinduised tribes who form the landless class and live partly by labour and partly on jungle produce, and their sufferings were intensified in some cases by delay in the commencement of relief operations. On the appearance of serious symptoms of distress the necessity of vigilant supervision was impressed upon the Superintendent, and in July 1889 Sir John Edgar, K.C.I.E., C.S.I., Chief Secretary to this Government, was specially deputed for the purpose of making personal enquiries into the condition of Angul and some of the affected tracts in the Tributary States, as well as in the Regulation districts. Immediate measures were also adopted for the alleviation of the distress by the opening of relief works, supply of gratuitous relief, grant of money advances and agricultural loans, as well as loans to the Tributary Chiefs who applied for them, relaxation of forest rules, &c., the details of which have already been separately reported to the Government of India. The rainfall of the past year was much above the average of the three preceding years, and there has been, on the whole, a fair outturn of crops. The relief operations have consequently been discontinued and the people are reported to be in a comparatively prosperous condition. The following deductions from the events of the past year, recorded by the Superintendent, are interesting and instructive:—"The experience of the past year seems to enforce two important lessons—first, that in such tracts as the Tributary States, which are without good roads and communications, and in which professional grain-dealers are almost unknown, comparatively slight misfortunes, such as unseasonable drought and a failure of fruits and jungle produce following on two or three short harvests, may convert a temporary pressure into scarcity and sharp distress; and secondly, that no time must be lost in commencing relief operations when actual distress once appears.

The Superintendent finds no reason to suppose that there was an absolute want of grain last year in any of the affected tracts, and thinks that the holders in Angul would have opened their stores more freely if they had felt confidence that any deficiency of food which might occur would be supplied.

4. In a year of scarcity the public health could not be expected to be good. As noticed above, cholera and small-pox caused great havoc during the period of scarcity which lasted from April to November, but the actual statistics of mortality could not be collected, although an attempt was made with that object. In Angul alone the estimated deaths from these diseases were 3,028 and 131 respectively, while 1,974 more are attributed to starvation. After the rains of November malarious fever appeared in an epidemic form, and the people suffered from it severely. Influenza also broke out in several of the States during the past year. The total number of persons vaccinated during the year was 26,906, against 23,427 in the preceding year. It is strange that out of 73 and 490 operations in Baramba and Daspalla respectively not a single case is said to have proved successful, while in Angul 4,650 out of 4,758 were effectual. The Lieutenant-Governor has no great faith in the statistics appended to the report. It appears that there are no local trained vaccinators, and that there is no effective control over those who are brought in from Cuttack. Operations conducted in this way are not likely to commend themselves to the people, already prejudiced as they are against vaccination. The suggestion of the Superintendent to train local men as vaccinators and to let them work under the supervision of the local medical officers is a good one, and he will be requested to report the result of the reference he proposes to make to the Sanitary Commissioner on the subject. No new dispensary was opened during the year, but the existing institutions are reported to be gaining popularity.

5. The mineral wealth of the Tributary Mehals has not been completely explored, but it is probably not inconsiderable. Coal mines exist in Angul and Talchere, and there are mines of mica and stone quarries in Nilgiri, Dhenkenal, and Angul. Iron ore is found in Dhenkenal, Angul, Talchere, Mohurbhunj, and Athmullik. The principal industries are weaving and the manufacture of brass and bell-metal wares, but both are now on the decline. Gold washings carried on in river-beds in Mohurbhunj, Dhenkenal, and Angul have hitherto proved unremunerative. There was no export of food-grains during the past year owing to the scarcity, but oilseeds and forest produce were largely exported. The chief articles of import are salt and English-made cloths.

6. The statistics furnished of the civil and criminal cases instituted in the courts of the Tributary Chiefs do not include the large number of petty cases which are decided by them orally, and the proceedings of which are not recorded. The total number of civil and revenue cases in the courts in the Tributary States established under the authority of the British Government fell from 10,102 to 8,402, the decrease occurring chiefly in Angul, Baramba, Dhenkenal, Mohurbhunj, and Nursingpore. Out of 193 civil and 70 revenue appeals, 214 were decided during the year and 49 remained pending at its close. The total number of offences reported during the year was 2,614 against 2,691 in the preceding year; of these 2,074 were returned as true, against 2,057 in 1888-89. The number of cases brought to trial, including those pending from the previous year, was 1,982 against 1,865 in 1888-89; and of 4,287 persons concerned in these cases, 999 were acquitted or discharged, 3,216 were convicted, 22 died, escaped, or were transferred to other courts, and 51 remained under trial at the end of the year. There were only 75 criminal appeals, of which 15 were rejected, and in 35 the orders of the lower courts were confirmed, in 10 they were modified, and in 15 reversed.

7. In Angul the total realizable land-revenue demand for 1889-90 amounted to Rs. 47,117-14-11, of which Rs. 26,870-1 were collected during the year; of the large balance of Rs. 20,247-13-11 outstanding at the close of the year, which was due to the inability of the ryots to pay in consequence of failure of crops, Rs. 15,125 have since been realized. No land revenue is paid in the Khondmals. The total receipts of the Khondmal Road and School Funds amounted to Rs. 3,578-7 and Rs. 2,337-15-11 respectively, and the two funds showed a balance of Rs. 2,984-2-8 and Rs. 2,944-10-7 respectively at the close of the year. The following statement shows the demands and collections on

account of land revenue in the five States under the direct management of Government:—

Name of State.	Total realisable demand including arrears.	Amount collected during the year.	Balance outstanding at the close of the year.
	Rs. A. P.	Rs. A. P.	Rs. A. P.
Mohurbhunj	2,37,386 10 9½	2,19,467 6 9	17,919 4 0½
Dhenkenal	99,363 8 4	70,507 3 4	28,856 5 0
Baramba	34,388 9 5	19,562 8 4½	14,826 1 0½
Nursingpore	37,414 4 6	22,366 10 1	15,047 10 5
Pal Lehara	30,339 12 8	19,905 2 5½	10,434 10 2½

The high prices of food-grains and the very generally prevailing distress necessarily affected the realization of land revenue. The Mohurbhunj State has already been made over to its Chief, and the responsibility of Government for the collection of arrears no longer exists. In regard to the other States, the Superintendent has already issued instructions for the recovery of the arrears as early as possible. The financial management of these five States during the past year was satisfactory. The resources of the Pal Lehara State, which recently came under the management of Government, and which is involved in heavy debts contracted by the late Chief, require improvement, and the Superintendent has directed his special attention to this subject.

8. The settlement operations in Angul are nearly complete. The assessment work was finished in December last and shows an increase of revenue from Rs. 36,898 to Rs. 1,10,547. This very large increment has resulted, not from raising rates, but from changes in classification and especially from the assessment of lands brought into cultivation but hitherto unassessed. Still it would be impolitic and scarcely just to attempt to enforce the settlement completely at once. The Lieutenant-Governor has postponed the enhancement altogether till 1892; then the newly-assessed lands are to pay half rates for five years, at three-quarter rates for five years, and then for five years at full rates. These concessions will, it is hoped, prevent the settlement from being too great a burden. In the Mohurbhunj State 19 pergunnahs have been resettled since the assumption of its management by Government. Under the terms of the resettlement, the revenue of these pergunnahs has been increased from Rs. 79,133 to Rs. 1,97,428. The settlement of 70 villages in Nilgiri has been completed, and the result shows an increase of assessment from Rs. 6,955 to Rs. 14,747.

9. The total number of schools was 1,128 with 14,407 pupils against 1,182 schools with 15,153 pupils in 1888-89. There were seven girls' schools, the same as in the preceding year, but the number of pupils fell from 448 to 425. There were also 266 girls reading in the boys' schools during the past year. One girl passed the lower primary scholarship examination from Angul and obtained a scholarship. There were 1,592 children of the aboriginal races under instruction against 1,541 in the preceding year. The total expenditure on education in the Gurjats during the year amounted to Rs. 67,155, of which Rs. 7,570 were borne by Government.

10. The area of reserved forests in Angul was not extended during the year. The management of the forests is very expensive, the annual average expenditure of the last four years being nearly thrice as much as the receipts. This abnormal deficit is explained by the Superintendent to be due to the fact that Angul is unable to compete with the cheaper timbers of the neighbouring States. The distressed condition of the people during the past two years necessitated the relaxation of the forest rules with a view to allow them free access to the reserves to collect edible roots, fruits, sago-palm, iron stone, and fuel. With the object of improving the condition of the landless classes of Orissa and protecting them from scarcity in future, Sir John Edgar has made some valuable suggestions for reconstituting the forest reserves in Angul and Khurda and re-organizing their administration. The question is now under consideration. The forests in Mohurbhunj, Dhenkenal, Baramba, and Nursingpore were administered by the respective Managers of those States.

11. The remarks concerning the merits of officers will be noted in the Appointment Department. The Lieutenant-Governor has read with satisfaction

the favourable report which the Superintendent has given of the administration of Keonjhur, Hindole, and Athmullik by their respective Chiefs. Since the close of the year under report the minor Chief of Mohurbhunj has been placed in charge of the State. Both by his disposition and by his acquirements he appears to be well fitted for his high position, and there is much reason to hope that he will prove himself an efficient ruler.

ORDER.—Ordered that a copy of the above Resolution be forwarded to the Superintendent of the Tributary Mehals, Orissa, for information and guidance.

Ordered also that a copy of the report, together with a copy of the Resolution, be submitted to the Government of India, in the Foreign Department, for information

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,
Offg. Chief Secy. to the Govt. of Bengal.

RESOLUTION ON THE REPORT OF THE BOARD OF REVENUE ON WARDS' AND ATTACHED ESTATES IN THE LOWER PROVINCES FOR THE YEAR 1889-90.

REVENUE DEPARTMENT—LAND REVENUE.

Calcutta, the 4th November, 1890.

RESOLUTION.

READ—

The Report of the Board of Revenue on Wards' and Attached Estates in the Lower Provinces for the year 1889-90.

Collections.

The rent-roll of the Wards' and Attached Estates under the management of the Board of Revenue slightly exceeds the large sum of a hundred lakhs, or a crore of rupees a year, and the collections in 1889-90 were nearly 103 lakhs, being better than the current demand by Rs. 2,74,728. This result is the best ever attained, except in the year 1878-79. The explanation given in regard to the estates on which collections have been deficient are generally satisfactory, the exception being in the case of the Chandra Kumar property, Shahabad, where only 75 per cent. of the current demand was realized—a result attributed to the "unsettled condition of certain villages which are over-assessed, the villagers being burdened with debts incurred during the time of the late proprietor." Upon this subject a special report will be made to Government showing what steps have been or should be taken to reduce any over-assessment established to the satisfaction of the Board and generally to assist in the restoration of prosperity. It is most necessary that Managers should observe every indication of the exceptional misfortunes which occasionally afflict particular villages, even on estates where the ryots as a body are doing well, and should be ready to aid in removing or mitigating the causes of distress, particularly when these are connected in any way with the assessment of rent. As to the Dhalbhum Estate, on which collections amounted to only 72 per cent. of the current demand, it is stated that "a large portion of the balance (Rs. 96,291) shown against pergunnah Dhalbhum alone is disputed and irrecoverable, as the resumed ghatwali tenures are said to have been assessed by the late proprietor's amla in a most perfunctory and summary manner without the knowledge of the tenants and without acceptance by headmen and tenure-holders." And the Board add that, "with a view to dispose of the objection raised by the tenants, the remeasurement and re-assessment of 111 villages of the pergunnah have been undertaken." The Lieutenant-Governor will be glad to learn the result of these remeasurements,

which should be observed with care by the Revenue authorities. In Deo the collections from the middlemen who farm the estate were very bad—a result attributed to opposition on their part to the management of Government. This is a matter requiring the careful attention of the Board and the Commissioner. The system of ticcadari management is not in itself commendable; it is maintained merely as an expedient for temporary convenience, to facilitate collections when the Manager is not, for any cause, able to do what is properly his own work; and if in this particular case the ticcadars perversely decline to meet their liabilities, the question arises whether it would not be wise to survey the estate at once and introduce khas management.

Balances.

2. The good collections of the year have slightly decreased the large outstanding balances which constitute so objectionable a feature in the administration of these estates, while more has been done in the same direction by granting remissions (which generally means writing off debts barred by limitation), with the result that the arrears have been reduced from 108 lakhs to 82. This is satisfactory as far as it goes; but the Lieutenant-Governor considers that greater energy should be shown in the work of retrenching from the accounts, at an early period of the management, demands which cannot be recovered, because they were never valid, or because they are barred by limitation. The existence of such demands affords the inferior collecting agency an opportunity for embezzlement. The Srinagar Ward's Estate has been seven years under the management of the Board, and their attention has been repeatedly called to the large balances outstanding; yet a sum of Rs. 83,432 is entered as still due from the period before the Board took charge. The Bhowanipore Estate, with a rent-roll of Rs. 1,62,576, shows, after large reductions, a balance of Rs. 9,63,321, most of which is classified as bad and irrecoverable and must presumably be barred by limitation, if it was ever really due.

Government dues.

3. The Lieutenant-Governor notices with satisfaction that the claims of Government on Wards' and Attached Estates have been satisfied during the year, the moderate balance (since paid) of Rs. 18,174 being more than equalled by advance payments made on other estates. This is an important branch of Wards' administration, which at one time received insufficient attention.

Financial results.

4. The general financial results of the year cannot be regarded as satisfactory, inasmuch as the debts due by estates increased from 45 lakhs to 48, the cash balances diminished from 24 lakhs to 17, while only four lakhs were invested or spent on the purchase of land. The law charges, which amount to nearly 18 lakhs, are heavy, and in this direction the Lieutenant-Governor would desire to see a reduction.

Improvements.

5. The amount spent on improvements, Rs. 66,930, is somewhat in excess of the expenditure under that head in previous years. But on some properties there is obviously a deficiency in this respect: for instance in Cossimbazar, with a rent-roll of over four lakhs, the outlay on improvements was only Rs. 4,668, while Rs. 75,067 were invested; in Narhan, with an income of nearly two lakhs, nothing was spent on improvements, while a lakh was invested. The Lieutenant-Governor is aware of the objection to sanctioning expenditure of this nature where the Manager cannot indicate any scheme for improvement, whether in the way of irrigation, drainage, planting of trees and fuel shrubs, or otherwise; but it is precisely such difficulties as these that a duly qualified Manager is expected to overcome. No Manager can be considered to have fully performed his functions if, on surrendering the estate to the Ward after a lengthened period, and having had surplus funds to use, he has done nothing for the property.

Surveys and records of right.

6. The most important improvements during the year were those made by effecting surveys and records of right under the Bengal Tenancy Act. It is very generally found that when the Court takes possession of an estate, the papers which should show what amount of rent is due from each ryot are unworthy of trust, and when such is the case, no greater benefit can be conferred on all the parties concerned in efficient management than to ascertain and record their permanent rights and liabilities. This should be done under existing orders whenever the Collector is unable, with regard to his responsibilities in proceedings of a

quasi-judicial character, to issue certificates for rents on the papers in the hands of the Manager. The object of these settlements is not to enhance rents or increase the income of the Wards, but to prepare a trustworthy rent roll, without which management cannot be efficient and the collection cannot be regular. On the estate first dealt with, that of Srinagar, the effect has been to yield more than 9 per cent. on the outlay, and similar results are being obtained elsewhere, but it is not to be assumed that settlements are to be made only when direct profit of this kind is to be expected. The Lieutenant-Governor learns without surprise that in one instance what was alleged to be the existing rent was actually reduced by nearly 50 per cent. on the ground that the soil had permanently deteriorated owing to fluvial action. Such changes in the character of the country are, when beneficial, made the ground for enhancement, and under the law (in this matter too frequently overlooked) the tenant is equally entitled to a reduction when the effect of the change is adverse to his interests. The progress made during the year was generally satisfactory. The survey of the Srinagar Estate—695 square miles—was completed under the efficient management of Mr. Collin, and the settlement will probably be finished during the current month. Maldwar has been finally dealt with. In Sunkerpore, Burdwan, Churamon, Koojung and Kanika the proceedings are in an advanced stage, and the Board may now with advantage consider what estates should next be taken in hand. There are indications in the present report to show that on some the rent-roll is not worthy of trust, and more information will be obtained on this subject if Collectors fully realize that it is their duty not to issue certificates on the mere statement of the Manager that a certain sum of rent is due without first ascertaining that he is in possession of accounts which show with certainty and accuracy what is the legal demand. As an indication of the loss which land-holders not unfrequently suffer for want of proper records, the following passage is quoted from the account given of the Burdwan Raj Estate:—

"In the course of the survey it was found that a large number of mouzahs belonging to the Raj, which had never been let in patni or otherwise alienated, had been taken possession of by other persons. In order to ascertain where they were situated and to enable the Court of Wards to adopt measures for resuming khas possession of them, a traverse and boundary survey of all lands appertaining to towjih Nos. 1, 3, and 4 of the Bankura district was ordered under section 3 of the Bengal Survey Act V of 1875. The Manager, Mr. Reily, has resumed khas possession of many of these mouzahs without opposition, and the persons in possession of others have applied to him to come to terms as to the settlement of them."

Education.

7. The Board give an account, which, except in one instance, is satisfactory, of the progress in education of each of the principal Wards. The subject is of the greatest importance, and the Lieutenant-Governor is glad to see that it meets with due attention.

8. The thanks of the Lieutenant-Governor are given to Mr. Halliday for his efficient management of the Wards Department during the year.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE BOARD'S REPORT ON THE LAND REVENUE ADMINISTRATION OF THE LOWER PROVINCES FOR THE OFFICIAL YEAR 1889-90.

REVENUE DEPARTMENT—LAND EVENUE.

Calcutta, the 8th November 1890.

RESOLUTION.

READ—

Board's Report on the Land Revenue Administration of the Lower Provinces for the official year 1889-90.

The Director's Report of the Department of Land Records and Agriculture, Bengal, for the year 1889-90.

Board's letter No. 630A, dated the 13th August 1890, submitting the latter.

Collections.

The moderate decrease of Rs. 10,277 in the revenue demand is more than accounted for by the fact that the owner of Jellamoota, who for many years declined to accept the settlement of his property, has done so at last, thereby becoming entitled to a sum of Rs. 58,344 a year for collection expenses, which is deducted from the income of Government. The current demand for land revenue, thus modified, amounted to Rs. 3,81,02,828, and there were arrears of Rs. 29,20,128; the collections were Rs. 3,86,65,822, and the balance uncollected, after remissions, was Rs. 22,60,785. The collections were comparatively good, being in excess of the regular income, and the best for ten years. Turning to the districts in which less was realized than 90 per cent. of the total demand, including arrears, it may be remarked that Chittagong is mainly managed as a Government estate, and in such instances it is found impossible altogether to prevent the occurrence of arrears; the payments were really satisfactory during the year, inasmuch as they exceeded the rental. In Pooree the apparent result seems to have been brought about by an error of account, which, the Lieutenant-Governor notices with satisfaction, has since been corrected under the orders of the Board. As has been pointed out on a previous occasion, Collectors dealing with rent rolls compiled according to the Bengalee year, which ends in April, are not always sufficiently careful to exclude from the demand of the official year sums not due until after its clo e—a mistake which gives to their returns an unsatisfactory appearance, and by the inclusion of fictitious demands impedes supervision over real arrears. In Chumparunand Midnapore exceptional calamities afford a sufficient explanation, and there remains only the cases of Furreedpore and Patna, as to which a separate report should be made. It is not clear why the owners of permanently-settled estates at Patna are more dilatory in payment than proprietors elsewhere, and the reference to pending settlements in Furreedpore is scarcely borne out by the figures given in Appendix X. Collections have been to some degree facilitated by the general adoption of the system of remittance by money-orders, of which 139,535 were issued during the year for an aggregate sum of over eleven lakhs.

Government estates.

2. The collections of the year on Government estates were good, being 104 per cent. on the current demand, and the Lieutenant-Governor approves of the remissions made on a liberal scale in Majnamoota on account of floods. This estate apparently accounts for the large uncollected balances in the Midnapore district. It is not the property of Government, but managed until the proprietor thinks fit to imitate the owner of Jellamoota by accepting settlement.

Operation of the sale laws.

3. Out of 159,852 estates on the roll 13,656 estates or shares in estates became liable to sale during the year, and 1,273 were actually sold, the others being exempted, in almost every instance on account of the payment of revenue after the latest day fixed for that purpose, but on or before the day of sale. This practice of exemption requires regulation, too much being at present left to the discretion of individual Collectors, who have very little to guide them. The subject has been under the special consideration of Government during the year, and a Bill has been framed and circulated for opinion which has for one of its objects the framing of conditions under which payments made after the latest day

of payment and before the day of sale may be received. The number of cases in which sales were annulled on appeal is 30, and this seems to the Lieutenant-Governor somewhat large. If Collectors observed due diligence in seeing before sale that the simple preliminaries clearly prescribed by law had been complied with, such reversals, which introduce an element of uncertainty into the whole procedure, would be very exceptional. The Board may with advantage take measures to secure that due notice shall be taken of any case in which a Collector may fail to conduct a sale according to law, thereby giving reasonable grounds for setting it aside on appeal.

Certificate procedure.

4. The working of the Public Demands Recovery Act, by which claims of the State other than those for land revenue are realized, was somewhat more satisfactory than in the previous year, inasmuch as fewer certificates were filed, more were executed, and the balance left pending was considerably reduced. The great majority of the certificates, as many as 72,224, were on account of the demand for road and public works cesses under Bengal Act IX of 1880—a demand as fixed and well known as that for the regular land revenue—and in nearly all such cases the default must have been wilful. It is where the procedure is used to recover a rent not fixed by any public authority that the greatest care is requisite in its working. In such instances the Collector or other officer issuing the certificate should always satisfy himself before so doing that there is satisfactory evidence as to the validity of the demand. This precaution is particularly required in the case of claims made by Managers for rent alleged to be due to Court of Wards' estates, where such rents have not been authoritatively fixed and recorded. It should be ascertained in regard to each estate, before the issue of certificates, that the accounts have been so kept as to prove that sums shown by them as due are really demandable under the law.

Settlements and records of rights.

5. The Board and the Director of the Department of Land Records and Agriculture notice the inconvenience of the present system of reporting on settlement work according to the financial year, the natural period being that adopted for road cess purposes, that is, the year commencing with the cold weather on the 1st November. On this head a separate expression of opinion will be solicited. Now that very important settlements are being dealt with, it is desirable to make all subsidiary arrangements as perfect as may be possible. The larger settlements are supervised by the Director, who observes :—

"There were 83 estates,* containing an area of 7,285 square miles, in 20 separate districts, under survey and settlement operations during the year. Of these, 51 are Government estates, with an area of 4,294 square miles, of which a resettlement of land revenue is being made; 9 are wards' estates, with a total area of 2,868 square miles, of which a survey, with a record of rights and settlement of fair rents, has been undertaken; and 23 are private zemindars' estates, with an area of 123 square miles, the owners of which applied for survey, record of rights, and settlement of rents, either on the ground of disputes existing between them and their tenants, or on the ground that they were new auction-purchasers and unable to ascertain the amounts of the rentals payable to them."

"It will be observed that survey and settlement operations under the Bengal Tenancy Act have extended over a vast area, comprising Government, wards' and private estates, in many districts and in every division in which the Act is in force; that these operations have affected a large number of tenants, aggregating at least four hundred thousand; that an increase of rent and revenue amounting to more than a lakh of rupees has been actually obtained, with the consent of the raiyats concerned, in the estates of which settlement has been completed or is approaching completion, yet in no single case has any rioting or disorder been reported, nor has anything like opposition of a formidable character been experienced. The number of appeals to the Special Judges from the decisions of Settlement Officers, compared with the number of such decisions, was exceedingly small. It may therefore, I think, be said that the anticipations of those who thought that these operations would lead to confusion and disorder have been wholly falsified by events. The cost of the professional survey operations has in some cases been in excess, and the cost of the settlement operations has been generally less than was estimated. On the whole, the cost has been about 8 annas per acre. Where highly-paid and efficient officers like Mr. Collin have been in charge of the operations, they ultimately cost less than where, as in some of the wards' estates in Dinagepore, lowly-paid and inefficient officers were employed. The status was recorded and the rents were settled of 171,647 tenants, of whom 5,604 are cultivating tenure and under-tenure-holders, 1,503 were recorded as raiyats at fixed rates, 102,727 as settled raiyats, 3,363

* The word "estates" is here used in the sense of separate properties, not in the technical sense, according to which every area with a separate towjee number, is an estate. Each of these properties includes many "estates" in the latter sense.

as settled but non-occupancy raiyats, 20,894 as non-occupancy raiyats, and 37,556 as under-raiyats. These figures show that the number of—

Tenure and undertenure-holders ...	...	3 per cent. of the whole.
Settled raiyats ...	...	60 " "
Non-occupancy raiyats ...	...	12 " "
Raiyats at fixed rates ...	...	1 " "
Occupancy, but not settled	...	2 " "
Under-raiyats ...	...	22 " "
		100

The Board, in forwarding this report, after commenting on the magnitude of the surveys in progress, observe that they have no means of testing their thoroughness, and indicate that in their opinion time alone can show whether the work has been adequately done. In Sir Stewart Bayley's opinion it is quite within the power of the Board to render their own control and supervision adequate for all purposes, but if the law or rules are found to be practically deficient in this respect, he will be glad to consider any suggestion which the Board may have to make on the subject. That the work and responsibility falling on the Director in the supervision of these numerous settlements is very onerous, admits of no more doubt, than does the ability and industry which he brings to bear on the work, but in the Lieutenant-Governor's opinion it would be well if the Member in charge could find time occasionally to inspect on the spot the work of settlement in some of the larger estates, and by this means keep a close touch with the work of the department.

Embankments.

6. Under this head the Board observe—

"In Bankoora an embankment was constructed during the year in the Government estates Pithaipore and Rajarbari, to protect them from the floods of the river Darkessur, at a cost of Rs. 2,060. The Bhagirathi embankment in Moorshedabad was breached during the year at a place called Rampal, 4 miles above Lalitakuri, and the results were serious. The breach was caused by malicious cutting. Much damage was also caused by a breach at Bairamgunge, also the result of deliberate mischief. In Chittagong a sum of Rs. 5,849 was spent on the Kutubdia embankment in turfing the new banks put up last year."

The subject has heretofore been dealt with in the annual revenue reports somewhat cursorily, and the Lieutenant-Governor would be glad if the Board would pay special attention to the matter next year. The question whether existing embankments should be retained, or new works of the kind constructed, is literally of vital importance in many districts, and more especially in Midnapore. The first effect of an embankment made with any judgment is almost invariably good, as it protects crops from destruction and villages from grave inconvenience; but in the course of years other consequences ensue, the embanked river rises in its bed owing to alluvial deposits, while the surrounding country remains, behind the embankment, at the old level, with the result that the normal height of the rising water is eventually above that of the adjacent fields, and the river becomes annually less and less capable of carrying its flood waters. This is a most dangerous position, as not only are floods under such circumstances very destructive if any breach occurs, but the water they bring will not flow off, and the fields remain submerged until, after a lengthened period, they are dried up by the slow action of evaporation. The subject has engaged the anxious attention of Sir Steuart Bayley, and, indeed, few matters are at present more pressing.

Land acquisition.

7. The Board state that 4,448 acres of land were acquired during the year at a cost of Rs. 17,48,683, and subject to an abatement of Rs. 1,122 a year revenue. The report gives other details, but does not deal with such questions as the supervision necessary to check the irritating and expensive delays which often occur in land acquisition proceedings, the difficulties which have arisen in assessing the value of the land taken up, and how these difficulties have been dealt with. The Lieutenant-Governor will be glad if in future reports the Board will pay special attention to these points.

Working of the Bengal Tenancy Act.

8. The Board observe that, "judging from the year's experience, the Act appears to have worked smoothly, and it may be remarked again that the flood of litigation which was foretold as likely to be one of the first results of the passing of the Act has happily not yet occurred." The sale of printed forms of receipt on the part of

Government continues to be large, amounting to Rs. 12,87,625, although private presses issue the forms at cheaper rates and presumably do a much greater business. These figures indicate that much is being done in the direction of silently establishing a record of existing rents where all was previously in confusion. In illustration of the evils which this part of the Act is intended to remedy, the following account may be quoted of one large estate, on which a record of rights is being made at the request of the owner:—

"The Settlement Officer reports that the Rajah's zemindari papers were in such a state of disorder that it has been extremely difficult to ascertain facts. The *jama-wasil-baki* papers, with some exceptions, show the rent of each holding in the village separately, but the ryots alleged that they made lump payments, though the lands comprised in their respective holdings lay scattered in two or more villages, and stated that the Rajah's *gomastas* or collecting agents granted them rent receipts accordingly. In ascertaining the existing rent with a view to the settlement of fair rents, it came to light that while a ryot cultivated no land in a village, a certain amount of rent was entered against his name in the *jama-wasil-baki* papers of that village; and, on the other hand, while a ryot did cultivate a certain area in a particular village, his name did not appear in the *jama-wasil-baki* of that village. The Settlement Officer has in numerous instances found that ryots cultivating land in one village have got their rents entered in another, and the confusion was made the greater by the absence of any record of mutation of holdings, subdivisions of tenancy, or distribution of rent in the Rajah's *sherista*. The result is that in many villages neither the names of ryots nor the amount of their rents, as entered in the zemindari papers, correspond with the entries in the *khatians*. The road cess papers of 1880, which, it was agreed, should be the basis for ascertaining the existing rents, were prepared from these zemindari papers, and consequently are incorrect It has therefore been a work of time and much labour to ascertain the correct rent payable by each ryot."

As many as 52 applications for settlements on private estates were made during the year, against 40 in 1888-89, and much useful work has been done in the direction of ascertaining and fixing rents. The only part of the Act to which general exception has been taken on the basis of actual experience of its operation is that which enables those transferring tenures to give notice of the transactions to their landlords, paying ceratin fees through the Courts, and the force of the objection made under this head has been much diminished during the year by the reduction in the number of such notices from 63,372 to 29,898. In dealing with agrarian questions in Chota Nagpore, Orissa and the Sonthal Pergunnahs, which are administered under special laws, the Lieutenant-Governor has had occasion to regret the absence of the powers conferred by the Bengal Tenancy Act in the rest of the Lower Provinces.

9. The thanks of the Lieutenant-Governor are given to the Hon'ble Mr. Halliday for his excellent administration as Member of the Board during the year; to Messrs. Smith, Worsley, Lyall and Grimley, Commissioners, for good revenue work; to Mr. Finucane, Director of the Department of Land Records and Agriculture, for the skill and discretion with which he has supervised very difficult settlement operations; to Mr. Edward Collin, who actually carried out the largest of these settlements. The work of the following Collectors and Deputy Commissioners has received the favourable notice of the Board:—

Mr. W. B. Oldham.	Mr. R. Cornish.	Mr. H. A. D. Phillips.
„ A. W. B. Power.	„ R. C. Dutt.	„ H. Lee.
„ A. Forbes.	„ F. R. S. Collier.	„ J. G. Ritchie.
„ A. A. Wace.	„ C. R. Marindin.	„ F. A. Slack.
„ W. Fiddian.	„ G. A. Grierson.	„ W. C. Macpherson.
„ H. G. Cooke.	„ L. Hare.	„ R. T. Greer.
„ C. A. Samuells.	„ D. B. Allen.	„ E. N. Baker.
„ J. A. Bourdillon.	„ H. Savage.	Colonel W. L. Samuells.

The names of the other revenue officers commended by the Board will be communicated to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE PATNA DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Darjeeling, the 8th November, 1890.

RESOLUTION.

READ—

The General Administration Report of the Patna Division for the year 1889-90.

This report has been prepared under disadvantageous circumstances, as Mr. Kemble, by whom it is submitted, was not in charge of the division during any part of the period to which it relates; while of the reporting Collectors, Mr. Bourdillon, of Chupra, is the only one who held that office for the greater portion of the year.

Tours.

2. The Lieutenant-Governor entirely approves of the plan on which the tours were conducted. As stated by the Commissioner, the Collectors were constantly moving about, and went out from head-quarters, even in the hot and rainy seasons, when their presence was required in the interior. They all seem to have found more or less that long, continuous rounds of inspection were not possible, as appeals, municipal and excise matters, land revenue and treasury questions, and other duties constantly demanded their attention at the sudder station. Indeed, under existing circumstances it is by no means desirable that Collectors' tours should generally be continuous, or should take the old form of a slow progress in camp. The objections to a system of government by orders from head-quarters without local enquiries or inspection are as strong as ever; but the means by which the necessary communication between a district officer and the inhabitants of the various towns and villages in his jurisdiction should be kept up must vary with the altered conditions of the present day. Among subdivisional officers, Mr. Mackertich, of Sasseram, was only 80 days on tour, Baboo Radha Madhub Bose, of Bhabuah, only 70 days, the explanation given in the former case being heavy current work, in the latter sickness. The Lieutenant-Governor will ascertain whether the consent of the District Collector had been obtained to the curtailment of the tours on these grounds. The prescribed period in the case of subdivisional officers having been reduced by recent orders, it is unsatisfactory to find that it is not in every instance observed.

Material condition of the people.

3. The question whether the normal condition of the working classes in Behar can be considered satisfactory has recently been examined by this Government in a special report, and need not be discussed here. The special circumstances of the year 1889-90 were unfavourable, as prices were high, the harvest of the previous season was bad, and, except in Chumparun, fever was prevalent. Wages are returned as having risen in the district of Durbhunga, and the Commissioner considers that there was an upward tendency elsewhere, though this does not appear in the tabular statements. Indeed, the Commissioner might with advantage test these returns generally, as they do not seem altogether worthy of trust, and the system of entering a daily rate for some districts, a monthly rate for others, is objectionable: there is always a doubt whether the daily rate refers to men hired for odd jobs, and therefore receiving somewhat more than those in regular employment.

Scarcity and relief.

4. Mr. Kemble hardly notices the scarcity which affected a part of the division or the measures of relief adopted, though these constituted the characteristic features of the year's administration. Almost the only reference to the subject consists in a quotation of the views of Mr. Bourdillon and Mr. Grierson, that the high prices of the season were artificially caused by combination among the mahajans, and an opinion expressed by the latter Collector that a mistake was made in preventing local officers from endeavouring to lower prices by threatening to import rice on behalf of Government. Some local and temporary effect may probably have been produced by such combinations, presumably with the result of lowering prices in the end, just as much as they were raised at

first; but the Lieutenant-Governor cannot believe that the rise in prices through Behar generally was so caused, for it was the natural result of the failure of a portion of the crops, it was spread over the whole country, and it proved permanent. The first impulse of popular opinion is always to attribute the enhanced price of grain to the wickedness of the dealers, particularly where there has been no very marked local deficiency in the harvest; but such views must always be regarded with much suspicion. And it is highly dangerous to influence the market at the commencement of a scarcity by threatening to import grain on the part of Government. Such a proceeding would doubtless lower prices temporarily, as Mr. Grierson says he proved by experience before the issue of Government orders prohibiting all measures of this kind; but by lowering local prices the Collector stops the importation of the grain necessary to supply the deficiency in his district, and the people are thus left with an inadequate supply of food.

Manufactures and commerce.

5. The outturn of indigo is entered as 55,437 maunds, which is below the average. The opium yield was also deficient. It is not stated how the information given as to the quantity manufactured in the case of sugar, saltpetre, tobacco, paper, blankets, and silk was obtained, and these returns are always of very uncertain value. The statistics of trade, also, must be taken as approximate only, except those relating to Nepal, which were arrived at by actual registration on the frontier. As to these the Commissioner remarks that—

"The increase is most noticeable under the exports, as I find that the quantity of food-grains, pulses, &c., and the number of hides, small skins, and cattle of sorts which left the country this year is nearly double what was reported last year. It is remarkable that, notwithstanding the increase in the export of food-grains, the quantity imported also increased. There is a large decrease in exportation under the table of 'things valued,' due to the absence of an important item of diamonds, valued at Rs. 30,10,000. Silver also fell from Rs. 9,24,866 to Rs. 3,72,000. This of course is a special case. Owing to political changes some of the rich members of society probably found it expedient in the year 1888 to remove their valuables to British India.

"The value of clothing imported into the country fell last year to Rs. 15,47,074 from Rs. 22,43,952. To make up for this there was a large increase under head '*Other things*.' One item of imports, 120,000 bricks, entered last year is not found in the returns this year."

Police and crime.

6. The year was marked by some increase in cognizable offences, the returns showing 28,383 cases in the calendar year 1889, against 25,575 in 1888. The excess is attributed to the high prices current at the beginning of 1889. The Lieutenant-Governor regrets to find that the Commissioner and Magistrates deprecate the prosecution under section 211, Indian Penal Code, of those who wilfully bring false cases against others, on account of the time which such proceedings occupy, the uncertainty of their result, and on the allegation that the only harm done by most of these false cases is that they give unnecessary trouble to the police. False accusations frequently cause, and are almost always intended to cause, great injury to the persons named or indicated as accused, and no pains requisite for the purpose can be too great to suppress a practice which does so much harm and brings so much discredit upon the administration. It is not, however, necessary to rely wholly upon prosecutions for discountenancing such charges: every improvement in the magistracy and the police which renders investigation more prompt and efficient, or brings superior judgment to bear on the evidence tendered, has its effect in deterring the malicious from the attempt to use the forms of justice as a means for indulging their private malice. False charges will always be most numerous where the authorities are least able to discriminate them from true.

Matters connected with land.

7. The collection of the land revenue, including the rent on Government estates, was not satisfactory, amounting to 93·8 per cent. on the total demand, and the deficiency was greatest in Patna, which is not a district classified as suffering from scarcity during the year. The Lieutenant-Governor hopes that the Commissioner will give his particular attention to the subject. His remark that the system adopted in Sarun of refusing to accept land revenue after the latest day fixed, where default has become habitual, entails hardship "if the towji accounts are not very accurately kept" is not understood. There should not be, and it is believed there is not, any inaccuracy whatever in the towji accounts. On this subject a special

report will be requested. The system of transmitting revenue by postal money-order, Mr. Kemble states, "is increasing in popularity, the sum remitted being Rs. 2,63,269 by 25,832 orders: in the preceding year Rs. 1,45,897 were remitted by 25,832 orders." In regard to the relation between landlord and tenant, the Commissioner reports three disputes, two of which are being settled by the special procedure for survey and record of rights provided in the Bengal Tenancy Act, while the third should, in his opinion, be settled in the same way. He also refers to unfavourable mention of the working of the bhaoli system in Gya. "Looking at all these reports," he observes, "I can find nothing which would justify me in reporting that the relations between landlord and tenant were unsatisfactory. I do not think that we ought to look for less selfishness in a Gya zemindar than we find among the rest of mankind." It is evident that the passing of the Bengal Tenancy Act has not been followed, as was anticipated in some quarters, by the disturbance of the outward quiet which has generally characterised the relations of the various agricultural classes in Behar, and it is doubtless gradually preparing the way for a better system by introducing a record of the amount of rent due in each case, and affording protection to both landlord and tenant. But it has been proposed to make this remedy more speedy and complete in its operation by a general survey and record of rights in the division wherever rents are at present uncertain, as they seem to be nearly everywhere. The proposal was postponed last year on account of the failure of crops, and its adoption in the near future is now under the consideration of Government.

8. In the number of schools and of students there has been some increase, and female schools in particular have multiplied from 203 to 236, and their students from 3,569 to 3,995. The Lieutenant-Governor is also glad to observe that more Mahomedan boys are now under instruction. In Sarun Mahomedan students have almost doubled during the last nine years.

Education.

9. Mr. Kemble reports well regarding all the District Boards in his division. He writes:—

District and Local Boards, Municipalities, and Zemindars.

"The members take an intelligent interest in whatever subjects are laid before them at meetings, and in some districts, especially Sarun and Durbhunga, have worked well on sub-committees—auditing accounts, preparing bye-laws, supervising the plans and estimates of the District Engineer, and in looking after the schools. I may apply the words of Mr. Bourdillon to all the districts, and state that the functions of the Boards in their corporate capacity are merely confirmatory, consultative and legislative, and in discharging those duties and serving on sub-committees they render the district officer much help. More than this cannot be expected of them. In no district, however, do they take any very active part in executive matters, which are, as a rule, left to the Chairman and District Engineer. Where Europeans are numerous, however, much assistance is rendered in keeping up the roads.

"Though the District Boards cannot be pronounced a great success, they are not a failure. As time goes on, it is to be hoped that they will not leave executive matters so much to their Chairman, and that they will exercise more and more real control over the expenditure of the funds entrusted to them.

"The example set by some of the indigo-planters is sure to work good.

"The Durbhunga Board seems to have been doing some good work. The remark made about one Board in the division, that it should be happy because it has no history, applies generally to the others."

In Chupra, with Mr. Bourdillon as Chairman, much progress has been made in the direction of efficient municipal management, but the account given of the working of municipalities in the division generally is not favourable indicating, as it does, that party spirit has in some instances been carried to an extent inconsistent with efficient administration, if not with the maintenance of the public peace. The Commissioner's remarks on this head will be further considered in the Municipal Department of this Government.

10. The Lieutenant-Governor notices with satisfaction the Commissioner's reference to the good work done by the Planters Association in settling quarrels between the planters and their ryots. The existence of this Association is a source of safety to the peace of the district, and is of material assistance to the Government.

11. Sir Steuart Bayley has to acknowledge the justice of the complaint made by the Commissioner of Patna in common with most other Commissioners as

to the inadequacy of the staff to cope with the increasing work of the districts. He trusts that when the next provincial contract is settled it will be found possible to remedy to some extent the unquestioned dearth of officers.

12. The thanks of this Government are given to Mr. Boxwell for his administration of the division during the year, and in particular for the energy with which, assisted for a time by Mr. Henry, he discharged the onerous duties imposed on him by the distress in North Behar. In Mr. Beadon the Government has lost a most zealous and devoted officer, whose premature death is deeply regretted by the Lieutenant-Governor. The Collectors generally, including several who officiated for short periods only, did so well that it is almost invidious to select any for special mention, but the names of Mr. Quinn, Mr. Grierson, Mr. Power, and Mr. Bourdillon cannot be altogether passed over. The remarks of the Commissioner under this head will be communicated to the Appointment Department.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE COMMISSIONERS OF THE PORT OF CALCUTTA FOR THE YEAR 1889-90.

No. 1987—Marine.

GOVERNMENT OF BENGAL, MARINE DEPARTMENT.

RESOLUTION.

Dated Darjeeling, the 31st October 1890.

READ—

The Administration Report of the Commissioners of the Port of Calcutta for the year 1889-90.

THE Administration Report of the Commissioners for the year which ended on the 31st of March last was not received by the Government until the 17th of this month The Lieutenant-Governor hopes that in future years the Commissioners will be able to arrange for the more punctual submission of this report.

2. Excluding the advances made to the Commissioners by the Government in respect of the Kidderpore Dock Works, the gross debt of the Commissioners on the 31st of March 1890 amounted to Rs. 1,20,36,401, distributed as follows:—

	Rs.
Consolidated debt due to the Government	42,71,401
Port debt not repayable	17,65,000
4½ per cent. debenture loan of 1881	10,00,000
4½ ditto ditto of 1883	20,00,000
5½ ditto ditto of 1886	30,00,000
Total	1,20,36,401

The debt to Government was reduced during the year by Rs. 1,29,534, and for the repayment of the debenture loans a sum of Rs. 1,24,000 was set aside, making the total amount at credit of the sinking fund account on the 31st of March 1890 Rs. 6,51,000.

3. The cost of the works constructed or acquired by the Commissioners and the sources from which the expenditure has been met, are shown in the subjoined table:—

Cost of works constructed or acquired by the Commissioners.		Rs.
Expenditure on jetties and appliances for sea-going vessels to the end of March 1890		33,42,943
Expenditure on inland vessels' wharves, landing stages, tramway, &c., on the Calcutta bank of the river		61,89,543
Expenditure on inland vessels' wharves, landing-stages, tramway, &c., on the Howrah bank of the river		16,20,605
Expenditure on dock for docking and repairing vessels, &c.		5,25,484
Expenditure on moorings, anchor vessels, Harbour Master's boats, light ships, survey vessels, &c. ...		38,21,821
Expenditure on reserve funds...	Jetties Reserve Fund ...	99,244
	Jetty Insurance Fund ...	50,000
	Port Reserve Fund ...	3,64,250
	Port Depreciation Fund ...	1,99,995
	Port Approaches Depreciation Fund ...	50,000
	Debenture Loan Sinking Fund...	6,51,000
Total ...		2,19,14,385

Sources from which the expenditure has been met.	Rs.
By loan from Government (repayable)	60,25,100
By loan from Government (not repayable)	17,65,000
By loan on 4½ per cent. debentures of 1881	10,00,000
By loan on 4½ per cent. debentures of 1883	20,00,000
By loan on 5½ per cent. debentures of 1886	30,00,000
Contribution from Government towards purchase of land for new river-side road	74,534
Contribution from Government for landing-stage at Prinsep's Ghát...	10,000
Contribution from Government for Port approaches block ...	7,19,203
From sale of surplus land ...	4,09,367
From revenue derived from works since formation of Trust ...	69,11,131
Total ...	2,19,14,385

4. On the 31st of March 1890 the advances received from the Government on account of the Kidderpore Dock Works amounted to Rs. 1,73,39,038. On the same date the expenditure on these works had reached Rs. 1,70,65,321. Towards the close of the year the Government received from the Commissioners a revised estimate of the cost of constructing the Tidal Basin and Dock No. 1. This estimate amounted to Rs. 2,53,38,737, and it has been raised by the Government of India to Rs. 2,64,01,605 on the assumption that the Docks will not be completed and earning revenue until the commencement of 1892-93. The accidents which have recently happened on the works will necessitate additional expenditure, but the Lieutenant-Governor hopes that the Docks will be completed before the end of next year, and that the total expenditure will not exceed the estimate as revised by the Government of India.

5. In February last the Government appointed a Committee to consider and advise on the arrangements to be adopted for the working of goods traffic into and out of Calcutta after the completion of the Kidderpore Docks. Owing, however, to the inability of the Commissioners to furnish information asked for by the Committee, the enquiry could not be completed. On receipt of the Committee's preliminary report, the Commissioners were called on, in a letter dated the 1st of May last, to furnish the Government with an estimate—

(*a*) of the annual charges which will have to be met by the Port Trust after the completion of the docks; and

(*b*) of the revenue that will be obtained in respect of the several services which the Trust will perform after the completion of the Docks, and from any other sources.

This estimate has not yet been submitted. When it is received, the Committee will be asked to resume its deliberations.

6. The year 1889-90 opened with a balance of Rs. 2,86,308. The receipts during the year amounted to Rs. 26,82,730. The expenditure of the year amounted to Rs. 25,90,391, including Rs. 2,24,689 credited to the sinking funds and Rs. 96,276 spent on new works. The year closed with a credit balance of Rs. 3,78,647.

7. The receipts on capital account during the year amounted to Rs. 1,89,000, including an opening balance of Rs. 14,883 and the sum of Rs. 96,276 contributed from revenue, the balance having been taken from depreciation funds. The expenditure amounted to Rs. 1,83,302, leaving a closing balance of Rs. 5,698.

8. Materials and stores to the value of £27,826-9-6 were procured by the Commissioners from England during the year through their Agent in London, and contracts to the value of Rs. 1,72,743-12-9 were made locally for materials and works. The Lieutenant-Governor observes that flooring stones, estimated to cost about Rs. 2,40,000, are being obtained from the British India Steam Navigation Company, but that no formal contract has been made, as the stores are supplied according to indents received from time to time. His Honour is of opinion that this arrangement should have been embodied in a formal contract and submitted for the sanction of the Government.

9. The receipts at the jetties amounted to Rs. 11,73,907, being Rs. 33,977 over those of the previous year; but the increase of revenue was derived entirely from the petroleum wharf, where the receipts amounted to Rs. 1,58,940. There was a considerable falling off in the receipts from exports, which were less than those realized in any year since 1881-82. The jetties were not worked at their full power. In 1887-88 the number of vessels berthed was 232, and the average length of their stay at the jetties was 9·9 days. Last year only 203 vessels were berthed, and they occupied the jetties on an average for 10 days each.

10. The imports of petroleum have increased. Last year 3,726,670 cases were imported as compared with 2,380,652 cases in the previous year. The Batoum oil, of which 534,880 cases were imported in 1888-89, does not appear to have found favour with consumers. Some of this oil which was imported in January 1889 still remained at the depôt on the 31st of March 1890. There were no imports of Batoum oil in 1889-90.

11. At the close of the year the extension of the Eastern Bengal State Railway to Budge-Budge was completed. The construction of this line was undertaken by the Government on representations made by the Commissioners and the Bengal Chamber of Commerce of the danger to which the shipping in

the port was exposed by the transport of petroleum by water from the depôt at Budge-Budge to the Calcutta and Howrah wharves. After the opening of the railway for traffic, the Commissioners, however, advised that it was unnecessary to place any restrictions on the transport of petroleum by water within the limits of the port. The Lieutenant-Governor is unable to reconcile the views now held by the Commissioners with those put forward by them and the Bengal Chamber of Commerce when they advocated the construction of the line or with the experience of the past, and the question of placing restrictions on the transport of petroleum by water is still under consideration. The Petroleum Act, 1886, and the rules made under it have come into force since the close of the year.

12. The total quantity of tea brought into Calcutta during the year was 101 million pounds, of which 30 million pounds passed through the tea warehouse built by the Commissioners. The receipts from the warehouse amounted to Rs. 76,455, including a sum of Rs. 17,542 which was realized by letting out the ground-floor for storing piece-goods and grain. The improvement in the receipts is satisfactory, but the tea warehouse, which, excluding the value of the site on which it stands, cost Rs. 8,51,010, has not yet become a financial success.

13. In the Harbour Master's Department, although the number of vessels which came to the port was less than in the previous year, the receipts from mooring hire show an increase of Rs. 17,931. This increase is due to the fact that many sailing vessels made long stays in port with the object of getting better freights. The Commissioners' steam-vessels earned Rs. 13,214 by towing vessels within the limits of the port.

14. There were nine accidents to vessels in charge of Assistant Harbour Masters, for seven of which the officers concerned were more or less to blame. None of the accidents caused very serious damage, and the result of the year's working compares favourably with that of the previous year.

15. Since the close of the year, special rules for the port of Calcutta have been made under the Explosives Act, 1884.

16. The total number of surveys made by the Engineer and Shipwright-Surveyor, including surveys of vessels belonging to the Commissioners, was 254, of which 229 were surveys of vessels and 25 of boilers and condensers on emigrant vessels. The fees levied in respect of these surveys did not cover the expenses incurred in making them. Since the close of the year the Commissioners have been relieved of the duties connected with the survey of vessels under the several Acts relating to merchant shipping, and a revised scale of fees has been adopted which is calculated to cover the expenses of making the surveys.

17. During the year 5,886 cargo boats and 1,532 passenger boats were surveyed and licensed, the total amount realized being Rs. 29,731, including Rs. 6,957 from fines for breaches of port rules. The expense of surveying these boats was under Rs. 10,000; but when, in 1879, the duty of licensing them was transferred to the Commissioners, it was arranged, with the approval of the Government, that the fees charged would be fixed so as to bring in a sum sufficient to carry on the work efficiently and to contribute the sum of Rs. 12,000 a year towards the maintenance of the river police force. The receipts now afford a margin over and above this contribution; but, in view of the changes that may result on the opening of the Kidderpore Docks, the margin is not so large as to call for any reduction in the fees at present.

18. The receipts from the tramways amounted to Rs. 3,02,022 against Rs. 3,26,697 in the previous year, showing a falling off of Rs. 24,675. On the other hand there was an increase of Rs. 5,846 in expenditure, which amounted to Rs. 1,99,442 against Rs. 1,93,596 in the previous year. After providing Rs. 50,354 for interest on the capital expenditure incurred on the tramway, the net revenue derived by the Commissioners from this source amounted to Rs. 1,02,580 against Rs. 1,33,101 in the previous year. The falling off in the gross receipts was due to the decline in the export of grain and pulses.

19. Towards the close of the year it was brought to the notice of the Government that the charges levied by the Commissioners for the carriage of goods on their tramways were not, as required by the "Calcutta Port Improvement Act, 1870," in accordance with a scale approved by the Lieutenant-Governor. After some correspondence with the Commissioners, they were, in a letter dated the 30th of June last, furnished with the views of the Government

of India and requested to frame and submit, in accordance with the provisions of the Calcutta Port Act, 1890," for the approval of the Lieutenant-Governor, a scale of all the charges to be made for the conveyance of goods by their tramway, due regard being had, in framing the scale, to the provisions of the Indian Railways Act, 1890. The Government has not yet received this scale from the Commissioners. The Government of India has expressed the opinion that there are grave objections to higher maximum rates being levied on the Port Commissioners' tramway for through traffic than have been fixed for commercial railways generally. The charges now levied, giving as they do a large surplus revenue, are very high, and they will have to be reduced in accordance with the principles laid down by the Government of India.

20. The expenditure of the year on surveying, buoying, and lighting the approaches to the port amounted to Rs. 4,98,424. The average annual expenditure on the port approaches during the past five years has been Rs. 4,93,558. The port approaches department has no income of its own, and the expenditure of the past year was met from the following sources:—

		Rs.
Contribution from	jetties	2,70,000
Ditto	inland vessels' wharves	25,000
Ditto	strand bank lands	65,000
Ditto	Harbour Master's department ...	50,000
Ditto	tramway	75,000
	Total ...	4,85,000

With the opening of the Kidderpore Docks it will be impossible to continue to make some of these contributions, and the question of how the expenditure on the port approaches should be met will receive further consideration when the estimate referred to in paragraph 5 of this Resolution is received from the Commissioners.

21. No changes of any [illegible] importance occurred in the river channels during the year. The establishment maintained for the survey of the river carried out its duties efficiently.

22. All the light-houses and light-vessels on the coast of Bengal were inspected towards the close of the year by the Engineer appointed by the Government of India to inspect and report on all Indian light-houses. The Engineer's report has recently been received and is now under the consideration of the Government. The lights of the approaches to the port of Calcutta require some small alterations, but are generally efficient. Mr. Douglass recommends that a light-house should be erected on the coast below False Point at the mouth of the Davy river. The advisability of having a light in this position had already engaged the attention of the Lieutenant-Governor, and the question will now be again considered.

23. The Calcutta Port Act, 1890, consolidating the several Acts relating to the Port Trust, came into force on the 1st day of June 1890. Under it the Commission is composed of a Chairman, Vice-Chairman, and five Commissioners who are appointed by the Government, five Commissioners elected by the Bengal Chamber of Commerce, one by the Calcutta Trades' Association, one by the Commissioners of the Town of Calcutta, and one by such body as the Government may select as best representing the interests of the native mercantile community. The Bengal National Chamber of Commerce has been recognised as the body best representing those interests.

24. During the year the Commissioners submitted, at the request of the Government, a draft of revised port rules under the Indian Ports Act, 1890. A legal difficulty has arisen affecting some of the most important of the rules, and they are still under consideration.

25. The thanks of the Government are due to the Commissioners for their successful management of the affairs of the Trust during the year. The Commissioners have, as in former years, had at their disposal ample resources, and while the charges made are in some cases high, the facilities which they have provided have met most of the wants of the trade of the port. With the opening of the Kidderpore Docks those facilities will be largely increased, but at the same time the charges which the Trust will have to meet will be

enhanced in a corresponding degree. The construction of the Kidderpore Docks was sanctioned on the recommendations made by a Joint Committee of the Port Commissioners and the Bengal Chamber of Commerce in 1883. At that time the trade of Calcutta had shown signs of rapid expansion, and the majority of the mercantile community urged on the Government the advisability of permitting the Port Commissioners to carry out their proposals for providing increased facilities for the shipping. The subjoined table of the departures of sea-going vessels from Calcutta during the past 11 years shows that the expansion has not been so rapid as had been anticipated, and that during the past two years there has been a slight falling off:—

Statement showing the number of sea-going vessels that left the Port in 1889-90 *compared with similar returns for the previous* 10 *years.*

Year.	Departures.								
	Number.			Gross tonnage.			Net tonnage.		
	Steamers.	Sailing vessels.	Total.	Steamers.	Sailing vessels.	Total.	Steamers.	Sailing vessels.	Total.
1879-80 ...	434	460	895	845,016	575,425	1,420,441	548,659	560,058	1,108,717
1880-81 ...	510	505	1,015	1,014,483	616,788	1,631,271	669,850	598,860	1,268,710
1881-82 ...	597	461	1,058	1,232,461	541,623	1,774,084	822,072	525,525	1,347,597
1882-83 ...	619	522	1,141	1,345,105	634,002	1,979,107	889,142	615,316	1,504,456
1883-84 ...	604	469	1,073	1,379,295	580,531	1,959,826	908,989	562,311	1,471,300
1884-85 ...	528	305	923	1,230,284	514,987	1,745,271	802,839	497,919	1,300,758
1885-86 ...	582	387	969	1,351,059	520,877	1,871,936	883,152	503,545	1,386,697
1886-87 ...	647	415	1,062	1,518,238	597,099	2,115,337	986,359	575,796	1,562,155
1887-88 ...	700	361	1,061	1,710,435	534,160	2,244,595	1,118,955	515,622	1,634,577
1888-89 ...	722	312	1,034	1,769,733	470,711	2,240,444	1,154,028	454,628	1,608,656
1889-90 ...	728	290	1,018	1,762,119	440,700	2,202,819	1,144,692	426,084	1,570,776

The Lieutenant-Governor hopes and believes that the check which the trade of the port of Calcutta has sustained is only temporary, but the present conditions require that rigid economy should be observed in administering the affairs of the port, and that the burdens should be distributed in an equitable manner, so that every branch of trade may have the opportunity of expanding without being subjected to restrictions of an artificial kind.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, *Col.*, R.E.,
Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 8th November 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
Burdwan Div. 1	Burdwan Nov. 8, '90	0·56	Weather—seasonable. Prospects of crops good. Fields are being prepared for *rabbi* crops. Prices of common rice :—
	Culna ...	0·20	
	Cutwa ...	0·80	
			Srs.
			Burdwan ... ... 16½ }
			Culna ... ... 15 } per rupee.
			Cutwa ... ... 15 }
			Ranigunge ... ... 17 }
2	Bankoora ,, 8, '90	Nil	Weather—fine, but occasionally cloudy; mornings and evenings cool. Prospects of *amun* rice continue good. Ploughing for *rabbi* proceeding. Common rice selling at 20 seers per rupee both at Sudder and Bissenpore.
3	Birbhum ,, 8, '90	0·10	Weather—seasonable with occasionally cloudy weather. Crops in excellent condition. Price of rice 16½ to 19 seers per rupee.
	Rampore Haut ...	0·20	
4	Midnapur ,, 8, '90	Nil	Weather—cloudy and variable; very warmat noon. Paddy crop doing well Lands being got ready for *rabbi* crops In Contai prospects fair except in places submerged. Prices of common rice :—
			Srs.
			Sudder ... ... 15 }
			Tumlook ... ... 17½ } per rupee.
			Ghatal ... ... 16 }
			Contai ... ... 18 }
5	Hooghly ,, 8, '90	Nil	Cold weather setting in. Prospects of *amun* continue good. Potatoes and *kalai* are being sown. Prices of common rice :—
	Serampore ...	0·03	
			Srs.
			Sudder ... ... 14 }
			Serampore ... ... 14 } per rupee.
			Jehanabad ... ... 16½ }
	Howrah ,, 8, '90	Nil	Weather—seasonable. *Amun* crop doing well. Prospects of harvest satisfactory. Price of coarse rice 14 seers per rupee.
	Central Districts.		
Presidency Div. 6	24-Perghs. Nov. 8, '90	0·05	Weather—seasonable. Prospects of crops good. Yield of *amun* rice estimated at 13 annas. Ploughing for winter crops going on. Common rice selling at from 13 to 15 seers per rupee. Medical relief being given to the people in the flooded tract.
7	Nuddea ,, 8, '90	0·20	Weather—seasonable. Prospects of crops fair. Sowing of winter crops going on. Price of rice continues much the same.
8	Khoolna ,, 8, '90	Nil	Weather—seasonable. Prospects of the *amun* crop continue favourable except in the flooded area. Lands are being prepared and winter crops are being sown.
	Satkhira ...	0·48	
9	Jessore ,, 8, '90	Nil	Weather—seasonable. Prospects of *amun* good. Sowing of winter crops going on.
10	Moorshedabad ,, 8, '90	Nil	Weather—seasonable *Haimanti* rice in ear. *Rabbi* crops being sown. Prospects favourable.
Rajshahye Div. 11	Dinagepur ,, 8, '90	Nil	Weather—seasonable. Prospects of crops continue good. Price of rice unchanged.
12	Rajshahye ,, 8, '90	0·95	Weather—fair. Steeping and gathering of jute almost finished. Ganja crop thriving. Sugarcane and winter paddy doing well. Lands being prepared for *rabbi* crops. Some transplanted winter paddy on low lands suffered in the subdivision of Nowgong.
	Nattore ...	1·62	
	Nowgong ...	0·30	
13	Rungpur ...	.....	Report not received.
14	Bogra ,, 8, '90	0·68	Weather—seasonable. Rain fell on the 1st instant. All crops promise well, and preparations for the spring crops are going on. Common rice is selling at 18 seers a rupee.
	Sherpur ...	0·59	
	Nowkhilla ...	0·37	
15	Pubna ,, 8, '90	Nil	Weather—fine and cool. Prospects of standing crops good. Prices of food-grains remain stationary.
16	Darjeeling ,, 8, '90	Nil	Weather—fine. Prospects good. Winter rice and maize doing well in the hills.
17	Julpigoree ,, 8, '90	Nil	Weather—seasonable. Steeping of jute nearly completed. Prospects of crops continue good. Price of rice remains stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—*concluded.*			
	Eastern Districts.		
DACCA DIVN. 18	Dacca Nov. 8, '90	Nil	Weather—bright, and cool at night. *Asvini* paddy being harvested. *Amun* paddy doing well. Cultivation going on for winter crops. Common rice sold at from 13½ to 16 seers per rupee.
DACCA DIVN. 19	Furreedpur ,, 8, '90	Nil	Weather—seasonable. Prospects of *amun* paddy fair. *Rubbi* crops are being sown. Common rice selling at 14 seers per rupee.
DACCA DIVN. 20	Backergunge ,, 8, '90	Nil	Weather—seasonable. State and prospects of crops good. Common rice selling at about 13 seers per rupee.
DACCA DIVN. 21	Mymensingh ,, 8, '90	0·05	Weather—seasonable; days still somewhat warm, but nights cool. Prospects of *amun* continue good. Jute nearly harvested. Common rice sells at 13 seers per rupee.
CHITTAGONG DIVN. 22	Chittagong ,, 11, '90	0·05	Weather—seasonable. Prospects of *amun* crop favourable. Prices stationary.
CHITTAGONG DIVN. 23	Noakholly ,, 8, '90	Nil	Weather—seasonable. *Amun* crop maturing. Prospects good. *Rubbi* crops being sown. Price of rice stationary.
CHITTAGONG DIVN. 24	Tipperah ,, 8, '90	Nil	Weather—cool and sun shining. *Amun* prospering. Mustard and other winter crops are being sown. Prices stationary.
CHITTAGONG DIVN. 25	Chittagong Hill Tracts. ,, 6, '90	0·3	Weather—seasonable. Harvesting of *jum* paddy nearly complete. Cotton in pods; gathering commenced. Plough-paddy in flower. Lands being ploughed for mustard. Common rice being sold at 11 seers 6¼ chittacks per rupee.
	Hill Tipperah ...	...	Report not received.
BEHAR.			
PATNA DIVN. 26	Patna Nov. 8, '90	Nil	Weather—hot in the day and cool at night. Prospects of paddy continue good. Sowing of *rubbi* crops in progress. Pea, gram and all other *rubbi* crops already sown have germinated well. Prices of food-grains falling to some extent.
PATNA DIVN. 27	Gya ,, 8, '90	Nil	Weather—days clear and nights cold. *Katika* and *karhani* paddy being harvested in places. Sowings of *rubbi* and poppy in progress throughout the district. Prospects favourable. Prices falling.
PATNA DIVN. 28	Shahabad ,, 8, '90	Nil	Weather—cool and clear. Prospects of all crops continue favourable.
PATNA DIVN. 29	Durbhunga ,, 8, '90	Nil	Weather—getting cool. Rice crop in ear and doing well. Sowing of *rubbi* crops progressing. *Rahar* and tobacco look promising. Price of common rice falling.
PATNA DIVN. 30	Mozufferpur ,, 8, '90	Nil	Weather—seasonable. Rice doing very well. Ploughing for and sowing of *rubbi* crops proceeding everywhere. Those crops which have already germinated are looking very healthy. Poppy is also being sown.
PATNA DIVN. 31	Sarun ,, 8, '90	Nil	Weather—fine and clear. West winds. Heavy dews at night. Rice, where there is any, very fine. *Rubbi* prospects very good. Linseed sowings normal.
PATNA DIVN. 32	Chumparun ,, 8, '90	Nil	Weather—seasonable. *Rubbi* sowings have commenced. Paddy in ear and doing well. Poppy sowings being commenced, and about 1¼ annas estimated as having been sown. The crop promises to be somewhat late on account of the excess moisture.
BHAGULPORE DIVN. 33	Monghyr ,, 8, '90	Nil	Weather—seasonable. *Rubbi* sowings in progress. Winter rice doing well.
BHAGULPORE DIVN. 34	Bhagulpore ,, 8, '90	Nil	Weather—clear; mornings and evenings with heavy dew. Winter rice doing well. Cultivation for *rubbi* crops progressing.
BHAGULPORE DIVN. 35	Purneah ,, 8, '90	Nil	Weather—fine with cold nights. Prospects favourable. Preparation for *rubbi* crops going on. *Kurthi* and other crops sown doing well.
BHAGULPORE DIVN. 36	Maldah Shibgunge ,, 8, '90	0·03 0·12	Weather—seasonable. Prospects of winter rice crop favourable. *Kalai* thriving and in some places flowering. Sowing of other *rubbi* crops in progress, and those already sown have germinated well. Locusts have visited the district in great numbers. Price of rice stationary.
BHAGULPORE DIVN. 37	Sonthal Pergns. ,, 8, '90	0·11	Weather—seasonably cool. Prospects of rice crop excellent. *Rubbi* sowings still going on. Harvesting of early rice commenced, and the outturn is more than average.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Nov. 8, '90	1·79	Weather—seasonable. Rain has somewhat damaged the *rabbi* crop in the Sudder subdivision, especially in Banki. General prospects good.
	39	Pooree „ 6, '90	3·56	Weather—cloudy. *Laghu sarad* (early winter rice) is being harvested. *Bara sarad* (late winter rice) coming into ear. *Kalai* and *arhar* have suffered to some extent from the late rain. Price of common rice from 21 to 27 seers per rupee.
		Khoorda ...	1·48	
		Banpur ...	3·78	
	40	Balasore „ 8, '90	2·25	Weather—seasonable. Early winter rice crop is being harvested.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Nov. 8, '90	Nil	Weather—seasonable. Sky cloudy throughout the week. Reports from all parts of the district very favourable.
	42	Lohardugga „ 8, '90	Nil	Weather—cloudy. *Rabbi* being sown here and there, but rain wanted. Harvesting of winter rice commenced. Some damage reported to have been caused to this crop by locusts. No material change in prices.
	43	Singbhoom „ 8, '90	Nil	Weather—seasonable; cloudy. Crops everywhere satisfactory.
	44	Manbhoom „ 8, '90	Nil	Weather—cloudy in the morning, warm in the daytime. Reaping of upland paddy has commenced. All other crops doing well.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 11th November, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

Names of Marts.	Stock in hand as compiled on—											
	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.	1st week of August 1890.	1st week of Sept. 1890.	1st week of Oct. 1890.	1st week of Nov. 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bellaghatta	4,54,000	2,96,500	3,00,000	5,48,000	9,31,100	15,22,500	10,94,000	9,53,500	7,54,000	6,42,000	5,61,000	4,10,000	3,88,500
Colladanga	67,400	55,400	63,400	83,900	1,02,500	1,13,500	86,600	84,700	74,900	67,800	73,300	65,800	70,400
Chitpore, Golabaree, Coomertooly, Hatkhola, and Gulpy Ghat.	6,28,300	5,86,000	6,00,400	5,96,900	5,83,800	5,91,600	5,37,800	4,72,300	4,96,100	5,10,500	6,07,500	6,61,100	6,39,700
Patheriaghatta, Posta, and Jorabagan.	3,000	3,000	4,000	5,000	4,000	3,000	4,000	3,500	4,000	3,000	4,000	5,000	4,700
Baligunge, Chitlah, Kidderpore, and Moonshigunge.	65,200	68,100	82,750	98,100	1,21,500	1,26,550	1,32,900	1,19,450	1,04,700	96,000	94,200	1,09,200	1,15,700
Rice Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 2,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Newabgunge, Shuddreasur, and Chandernagore.	13,410	14,080	23,425	19,606	33,469	21,225	19,269	23,762	45,279	55,587	45,451	47,075	51,013
Total ...	17,31,310	15,13,080	15,68,975	18,43,506	23,64,369	23,77,375	23,64,669	21,55,112	19,69,579	18,65,187	18,55,451	17,67,175	17,02,013
On Railway premises on both sides of the river.	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd Dec. 1889.)	23,007 (on 3rd Jan. 1890.)	26,935 (on 3rd Feb. 1890.)	47,988 (on 3rd Mar. 1890.)	24,998 (on 3rd Apl. 1890.)	24,683 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,533 (on 3rd July 1890.)	2,371 (on 3rd August 1890.)	13,884 (on 3rd Sept. 1890.)	11,155 (on 3rd October 1890.)	16,544 (on 3rd Nov. 1890.)
On boats unloaded ... By Port Commissioners' returns.	21,324 (1st to 3rd Nov. 1889.)	20,650 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb. 1890.)	56,599 (1st to 3rd Mar. 1890.)	37,745 (1st to 3rd Apl. 1890.)	30,197 (1st to 3rd May 1890.)	24,756 (1st to 3rd June 1890.)	23,351 (1st to 3rd July 1890.)	54,778 (1st to 3rd August 1890.)	27,167 (1st to 3rd Sept. 1890.)	32,365 (1st to 3rd October 1890.)	26,448 (1st to 3rd Nov. 1890.)
By Canal returns	14,718 (1st to 3rd Nov. 1889.)	8,855 (1st to 3rd Dec. 1889.)	1,51,815 (2nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	58,619 (1st to 3rd Apl. 1890.)	23,975 (1st to 3rd May 1890.)	23,957 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)	18,546 (1st to 3rd August 1890.)	32,466 (1st to 3rd Sept. 1890.)	23,494 (1st to 3rd Octoner 1890.)	29,006 (1st to 3rd Nov. 1890.)
Grand total of Stocks ...	17,81,363	15,49,242	17,90,438	21,81,281	25,05,503	29,98,735	24,43,474	22,45,752	20,30,851	19,40,892	19,28,998	18,34,189	17,74,609
Probable stock available for exportation by sea.	7½ lakhs	5 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs	14 lakhs	12 lakhs	9½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	7½ lakhs

P. NOLAN,
Secy. to the Govt. of Bengal.

STATISTICAL DEPARTMENT,
The 8th November, 1890.

SUPPLEMENT TO THE CALCUTTA GAZETTE, 12TH NOVEMBER 1890.

PRICES-CURRENT (retail) of Food-g

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			HAWONI OR KAKUN, ITALIAN MILLET, (SETARIA ITALICA.)			GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (Cicer arietinum.)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.															
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S Ch	S. Ch.	S. C	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ..	14 0	13 0	13 4	...	...	...	12 6	12 6	11 1	...	...	...	18 12	19 0	16 0
2	Bankoora .	14 0	15 0	13 8	18 0	20 0	14 8	17 0	15 0	15	...	...	...	16 0	16 0	15 0
3	Beerbhoom ..	17 4	17 4	15 0	...	...	...	13 8	13 8	12	...	...	...	18 12	19 8	16 8
4	Midnapore ...	10 8	10 8	13 8	...	...	...	13 0	11 0	12	...	...	...	16 0	16 0	14 0 / 15 0
5	Hooghly ...	13 0	13 0	13 0	...	...	...	8 0	8 0	8	...	...	...	16 0	16 0	16 0
	Howrah ...	...	...	...	...	...	...	10 0	10 0	9	...	...	...	20 0	19 0	16 12
	Central Districts.															
	Calcutta	13 6	13 4	13 3	17 15	17 11	16 10	8 12	8 14	7 1	8 14	8 14	16 2	17 7	17 9	14 15
6	24-Pergunnahs	14 0	14 8	14 0	20 0	19 0	17 0	8 0	8 0	7	7 0	7 0	10 0	20 0	19 0	16 0
7	Nuddea ..	15 4	15 4	14 14	16 0	...	16 0	11 6	11 10	10	...	...	...	20 10	21 5	17 12
8	Khoolna ...	...	...	...	...	...	...	12 0	12 0	11	...	...	...	13 0	12 0	14 0
9	Jessore ...	13 0	13 0	13 5	...	...	...	11 0	11 0	9	...	...	...	16 0	16 0	16 0
10	Moorshedabad	16 0	16 0	16 0	...	.	...	10 0	10 0	10	...	...	....	21 0	22 8	17 12
11	Dinagepore	15 10	15 10	14 8	21 12	14 8	19 0	13 4	14 6	12	...	...	..	17 8	18 0	14 8
12	Rajshahye ...	16 8	16 8	15 0	19 8	19 8	19 8	12 12	12 0	9	..	...	...	21 0	21 0	18 0
13	Rungpore ..	13 5	13 5	13 5	...	...	...	9 6	9 6	10	...	...	..	12 4	12 4	13 10
14	Bogra ...	15 0	13 5	13 8	...	...	...	12 0	9 12	10	...	...	..	15 15	15 0	13 8
15	Pubna ..	18 0	18 0	16 8	...	..	..	7 5	7 2	7	...	...	..	19 0	18 12	15 12
16	Darjeeling ..	8 0	9 0	9 0	9 0	10 0	10 0	5 0	5 0	5	...	...	...	11 0	11 0	10 0
17	Julpigoree*		13 0	...		16 0	...		8 0	7	...	...	...		16 0	8 0
	Eastern Districts.															
18	Dacca ...	12 0	12 0	13 0	14 0	14 0	26 0	13 0	13 0	9	...	...	...	16 0	16 0	13 0
19	Furreedpore ..	16 0	16 0	13 0	20 0	20 0	...	10 0	10 0	9	...	...	...	16 0	16 0	12 0
20	Backergunge ...	...	...	...	...	...	...	11 12	11 8	10	...	...	...	17 4	17 0	13 12
21	Mymensingh ..	12 0	10 8	10 0	..	...	...	10 0	10 0	8	...	...	..	14 0	14 0	13 0

* Present return not received.

A In subdivisions retail prices of salt per rupee are :—Calcutta 10 seers, Cuttack 10 seers
B At Rampore Haut retail price of salt 9 seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 8 seers, Tumlook 8 se
D In subdivisions retail prices of salt per rupee are :—Serampore 10½ seers and Jah
D1 In subdivisions retail prices of salt per rupee are :—Barasat 10 seers, Basirhat seers, and Barrackpore 9 seers 2 chittacks.
E In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpor 9 seers 2 chittacks.
F In subdivisions retail prices of salt per rupee are :—Satkhira 10 seers and Bagirh
G In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 10 [illegible]

Head-quarter Station Bazars of the Districts of Bengal on the 31st October, 1890.

INDIAN-CORN OR MAIZE. (*Zea Mays.*)			ARHAR OR THUR, CAJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															BENGAL.
															Western Districts.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P	Rs. A. P.	
...	...	...	18 8	17 12	18 0	100 0	100 0	100 0	A k 11 2-2	k 11 2-2	10 5	3 7 6	3 8 0	3 11 3	Burdwan.
32 0	28 0	28 0	18 0	18 0	16 0	280 0	24 0	28 0	10 8	10 0	10 0	3 10 0	3 13 0	3 15 0	Bankoora.
...	...	...	13 8	13 8	10 8	160 0	160 0	160 0	B 10 8	10 8	10 8	3 10 0	3 10 0	3 10 0	Beerbhoom.
...	...	...	12 0	11 8	12 0	120 0	120 0	160 0	C 10 8	10 8	10 3	3 13 0	3 13 0	3 15 0	Midnapore.
...	...	...	11 0	11 0	13 0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.
...	...	...	12 8	12 8	12 8	100 0	100	100 0	10 8	10 8	9 2	3 8 0	3 8 0	3 14 0	Howrah.
															Central Districts
17 13	19 8	18 0	15 6	15 3	17 12	90 4	92 8	100 0	10 4	10 8	9 12	3 10 5	3 8 8	3 13 5	Calcutta.
..	...	...	14 8	17 0	18 4	100 0	100 0	100 0	D1 10 12	10 12	10 0	3 6 6	3 7 0	3 9 6	24-Pergunnahs.
...	...	...	16 0	16 13	17 12	...	...	...	E 9 13	9 13	9 2	3 12 0	3 12 0	3 14 0	Nuddea.
...	...	...	...	...		16 0	160 0	120 0	F 8 0	8 0	9 0	4 0 0	4 0 0	4 0 0	Khoolna.
...	...	...	16 0	16 0	16 0	160 0	160 0	160 0	G 9 2	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.
...	...	...	16 0	17 12	16 0	200 0	200 0	220 0	H 10 12	11 4	11 0	3 12 0	3 8 0	3 8 0	Moorshedabad.
...	...		15 10	15 10	16 12	160 0	160 0	160 0	I 10 0	10 0	9 8	4 0 0	4 0 0	4 0 0	Dinagepore.
...	...	..	18 4	17 2	16 8	240 0	24 0	240 0	J 9 9	9 9	9 9	3 13 4	4 0 0	4 0 0	Rajshahye.
...	...	...	10 10	10 10	12 4	100 0	100 0	100 0	K 9 6	9 6	8 14	4 4 0	4 4 0	4 8 0	Rungpore.
...	...	...	...	.	...	90 0	90 0	90 0	9 12	9 0	9 0	4 0 0	4 0 0	4 0 0	Bogra.
...	...	...	17 4	17 10	17 4	2 0	2 0	240 0	L k 8-11-2	k 8-11-2	k 8-11-2	3 14 0	3 14 0	4 0 9	Pubna.
20 0	20 0	18 0	10 0	10 0	8 0	120 0	120 0	120 0	8 0	7 8	7 0	M 5 0 0	5 4 0	4 15 0	Darjeeling.
...	...	...		11 0	8 0		20 0	128 0		9 0	8 0		4 4 0	...	Julpigoree.
															Eastern Districts.
...	...	...	16 0	16 0	14 0	120 0	120 0	160 0	N 9 12	9 12	10 0	4 0 0	4 0 0	3 15 0	Dacca.
16 0	16 0	16 0	10 0	10 0	10 0	120 0	120 0	120 0	10 0	10 0	9 0	3 14 0	3 14 0	4 4 0	Furreedpore.
			Khesari, husked.						O						
...	..	...	13 0	12 12	13 8	100 0	100 0	120 0	10 10	10 10	9 12	3 12 0	3 12 0	4 2 0	Backergunge.
...	...	...	10 0	11 0	...	...	...	...	P 9 8	10 0	9 0	4 2 0	3 15 0	4 3 0	Mymensingh.

B In subdivisions retail prices of salt per rupee are :—Lalbagh 10 seers, Jungipore 10 seers, and Kandi 11 seers.
I In Thakurgaon subdivision retail price of salt 8 seers per rupee.
J In subdivisions retail prices of salt per rupee are :—Nowgong 9 seers 9 chittacks and Nattore 9 seers.
K In subdivisions retail prices of salt per rupee are :—Kurigram 8 seers, Nilphamari 9 seers, and Gaibanda 8 seers.
L At Serajgunge retail price of salt 10 seers per rupee.
M At Silliguri wholesale price of salt Rs. 4-4 per maund.
N In subdivisions retail prices of salt per rupee are :—Maniekgunge 9 seers, Moonsheegunge 8½ seers, and Nemiagunge 10 seers.
O In subdivisions retail prices of salt per rupee are :—Perozpore 10 seers, Patuakhali 9 seers, and Bhola 8 seers.
P In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 9 seers, Nusseerabad 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S Ch.	S. Ch.	S. Ch.	S. Ch.	S Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	11 0	11 0	10 0	...	...	...	12 0	12 0	8 0	15 12	15 12	14 0		...	...
23	Noakholly ...	...	...	...	...	...	...	14 0	14 0	11 0	15 0	15 0	13 0	...	...	...
24	Tipperah ...	10 0	13 5½	11 7				10 0	11 7	10 0	13 14½	14 8½	14 9½		.	...
25	Chittagong Hill Tracts.	...	...	..	...	..	...	10 5	11 6½	8 14	11 6½	12 15	9 12	...	.	...
	Hill Tipperah*	..	...	...		...	.	...	...	...	...	...	...	...	..	...
	BEHAR.															
26	Patna ...	16 12 / 15 12	Red. 16 12 / White. 15 12	16 2 / 13 12	17 0	17 0	21 8	11 0	11 0	10 8	16 4	16 8	15 11	...	...	21 0
27	Gya ...	15 4	15 4	14 12	18 12	20 0	18 0	10 0	10 0	10 0	17 0	17 0	15 8	...	...	...
28	Shahabad ...	15 8	16 8	14 0	16 0	19 0	17 0	9 0	9 0	9 0	16 0	16 0	12 8	...	...	...
29	Durbhunga ...	13 4	15 3	15 8	16 8	16 8	14 13	13 0	13 0	10 4	16 8	16 8	14 0	...	...	...
	Mozufferpore ...	16 0	16 0	13 8	18 0	19 0	15 0	9 0	9 0	9 0	14 0	14 0	13 0	...	..	...
31	Sarun ...	15 8	15 8	14 12	16 0	17 8	20 0	8 4	8 4	8 8	14 8	13 12	11 8	...	...	...
32	Chumparun ..	16 0	17 0	14 8	19 0	19 8	16 0	9 0	10 0	8 0	16 0	15 8	13 0		...	...
33	Monghyr ...	16 12	16 12	16 13	16 12	16 12	16 13	11 0	10 8	11 9	15 3	14 11	13 2	...	...	...
34	Bhagulpore ...	16 6	16 11	17 0	20 3	22 11	16 6	10 11 / 12 10	Old. 11 6 / New. 12 10	11 6 / ...	13 14 / 15 12	Old. 13 14 / New. 15 2	15 2 / ...	...	...	...
35	Purneah ...	16 0	18 .	15 0	...	...		15 0	15 0	10 0	17 0	18 0	12 0	..	...	...
36	Maldah ...	18 0	18 0	17 0	...	...		11 0	9 0	11 0	16 0	16 0	14 0	...	...	...
37	Sonthal Perghs.	14 0	13 0	13 0	.	...		12 0	13 0	13 0	15 0	16 0	16 0	...	...	...
	ORISSA															
38	Cuttack ...	14 7	14 7	13 2	.	.	...	10 8	10 8	10 8	21 0	18 6	15 12	...	...	...
39	Pooree ...	14 7	13 2	11 13	..	...	.	14 7	13 6	15 12	21 0	21 0	19 5	.	...	...
40	Balasore ...	15 0	15 0	15 0	18 0	18 0	18 0	12 0	12 0	13 0	22 0	18 0	21 0	..	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	14 0	14 0	11 12	17 0	17 0	14 0	10 0	8 0	10 .	(new) 20 0 / 16 0	16 0	17 0	...	...	...
42	Lohardugga ...	White. 8 0 / Red. 14 0	8 8 / 14 0	... / 11 0	No sale.	17 8	12 0	13 8	13 0	2 0	16 0	14 0	14 0	...	...	...
* 43	Singbhoom ...	12 0	12 0	10 0	17 0	14 0	12 0	14 0	15 0	16 0	15 0	16 0	20 0	..	..	...
44	Manbhoom ...	13 5	13 5	12 0	28 0	28 0	...	13 0	13 0	13 8	20 8	20 8	20 0	...	...	...

* Return not received.

Q At Cox's Bazar retail price of salt 8 seers per rupee.

R At Feni and retail price of salt 8½ seers per rupee.

S In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Sasseram 10 seers, and Bhabuah 9½ seers.

T In Madhubani and Somastipore subdivisions retail price of salt 10 seers per rupee.

U In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

V At Bettiah retail price of salt 10 seers per rupee.

of Bengal on the 31*st October*, 1890—(concluded).

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi. (*Eleusine Coracana.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	29 0	22 0	...	29 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	26 0	26 7	27 4
...	...	...	24 0	23 0	...
...	...	...	22 0	22 0	21 0
...	...	...	28 0	28 0	25 8
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	29 0	30 0	34 0
...	...	...	42 0	46 0	22 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			DISTRICTS.
present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
									Eastern Districts—concluded.
Ch.	S. Ch.	S. Ch.	S. Ch.	S h.	S. Ch.	S. Ch	Rs. A. P.	Rs A. P.	Rs. A. P.	
0	110	0 100	0	10 0 R	10 0	8 0	3 14 0	3 14 0	4 0 0	Chittagong.
				9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
				10 0	10 0	8 14	4 0 0	4 0 0	4 8 0	Tipperah.
0	320	0 320	0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
...	...	...	...	...	...	...	...	...	...	Hill Tipperah.
										BEHAR.
0	110	0 130	0	10 0	10 0	9 8	3 10 0	3 10 0	3 13 0	Patna.
	160	200	0	10 0	9 4	9 2	4 2 0	4 2 0	4 2 0	Gya.
0	120	0 140	0	10 0 S	10 0	10 0	3 15 0	3 15 0	3 15 0	Shahabad.
0	160	0 200	0	11 0 T	11 0	10 0	3 8 0	3 8 0	3 8 0	Durbhunga.
0	160	0 160	0	10 0 U	10 0	10 0	3 4 0	3 11 0	3 12 0	Mozufferpore.
0	180	160		10 4	10 4	9 8	3 13 0	3 12 0	4 2 0	Sarun.
0	160	0 160	0	10 0 V	10 8	9 8	3 11 0	3 10 0	4 3 0	Chumparun.
0	147	147	0	9 15 W	10 8	9 7	3 13 0	3 11 0	4 0 0	Monghyr.
8	151	8 170	4	10 0	10 0	10 1	3 14 6	3 14 6	3 15 0	Bhagulpore.
0	130	0 200	0	9 0 X	9 0	9 0	4 7	4 7 0	4 7 0	Purnean.
0	120	140		9 0	9 0	9 0	4 0 0	4 0 0	...	Maldah.
0	200	0 200	0	9 0	9 0	9 4	3 14 0	3 14 0	4 0 0	Sonthal Pergha.
										ORISSA.
0	80	80	0	11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	Cuttack.
0	80	0 80	0	9 13 Y	9 13	11 2	3 12 0	3 12 0	3 10 0	Pooree.
	160	160		10 0 Z	10 0	9 0	3 14 0	3 4 0	4 2 0	Balasore.
										CHOTA NAGPORE.
										South-West Frontier Agency.
0	14	0 30	0	8 0	8 0	8 0	4 3 0	4 3 0	4 8 0	Hazaribagh.
0	120	140	0	9 0 Z1	9 0	8 8	4 2 0	4 2 0	4 10 0	Lohardugga.
0	240	200	0	9 0	9 0	7 0	4 6 0	4 6 0	5 8 0	Singbhoom.
0	200	0 200	0	9 14 Z2	9 14	9 0	3 12 0	3 14 0	4 3 0	Manbhoom.

rupee are :—Begusarai 9½ seers and Jamui 9 seers.
rupee are : Kishenguuge 8 seers and Arrareah (at Ranigunge) 10 seers.
alt 9 seers per rupee.
per rupee.
ers per rupee.
s per rupee.

blished for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 10	2 12 4	2 12 9	1 15 6	2 0 2	2 2 4	4 5 2	4 3 3	4 12 11	2 12 11	2 14 1	2 14 0
2	Serajgunge ...	2 4 0	2 5 0	2 6 0	..	..	...	4 13 0	4 4 0	4 8 0	3 4 0	3 2 0	3 0 0
3	Dacca ...	3 4 0	3 4 0	3 0 0	2 12 0	2 12 0	1 8 0	3 0 0	3 0 0	4 0 0	2 13 0	2 13 0	3 9 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 0 0	4 0 0	2 12 0	2 12 0	3 8 0
5	Chittagong	3 8 0	3 8 0	3 12 0	...	...	...	3 4 0	3 4 0	4 11 0	2 8 0	2 8 0	2 12 0
6	Patna ...	Red. 2 5 6 White. 2 8 0	2 5 0 2 8 0	2 6 0 2 10 0	2 5 0	2 5 3	1 13 0	3 8 0	3 8 0	3 14 0	2 6 0	2 6 3	2 8 6
7	Balasore ...	2 8 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 0 0	1 13 0	2 3 0	1 13 0
8	Pooree ...	...	..	...	...	..	.	...	...	...	1 14 3	1 14 3	2 3 6
9	Cuttack ...	2 10 0	2 10 0	3 0 0	...	...	...	3 10 0	10 0	3 10 0	1 11 0	2 2 0	2 5 0

CALCUTTA,
The 11th November, 1890.

gal on the 31st October, 1890.

PRICES PER MAUND

Jowar or Cholum. (Sorghum Vulgare.)			Bajra or Cumbu. (Pennisetum typhoideum.)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	...	2 4 11	4 0 4	4 6 3	3 4 6
...	...	...	...	....	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	1 13 0	...	...	1 4
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

	Arhar or Thur. Cadjan Pea. (Cajanus indicus.)			Firewood.			Salt.			Marts.
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
5	2 5 6	2 5 8	1 15 9	0 5 9	0 5 9	0 5 6	3 10 5	3 8 8	3 13 5	Calcutta.
	...	...	...	...	...	...	3 14 0	3 12 0	3 14 0	Serajgunge.
	2 8 0	2 8 0	2 12 0	0 5 0	0 5 0	0 4 0	4 0 0	4 0 0	3 15 0	Dacca.
	3 8 0	3 8 0	3 12 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	4 0 0	Naraingunge
	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	4 0 0	Chittagong.
0	2 0 0	2 0 0	1 12 0	0 5 0	0 6 0	0 5 0	3 10 0	3 10 0	3 13 0	Patna.
	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 2 0	Balasore.
	...	...	...	...	...	...	3 12 0	3 12 0	3 10 0	Poorea.
	2 0 0	2 0 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Cuttack.

blished for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province o

STATION OBSERVATIONS.

Meteorological Division.	District	Representative stations.	Air Pressure. Highest, 8 A.M., barometer reading of month.	Air Pressure. Lowest, 8 A.M., barometer reading of month.	Air Pressure. Mean, 8 A.M., for month.	Air Pressure. Mean reduced to sea-level.	Air Pressure. Variation from normal mean.	Temperature. Highest of month.	Temperature. Lowest of month.	Temperature. Mean daily maximum temperature.	Temperature. Mean daily minimum temperature.	Temperature. Mean daily temperature.	Temperature. Variation from normal mean.	Humidity. Mean, 8 A.M., humidity.	Humidity. Variation from normal mean.	Cloud. Mean amount, 8 A.M.	Cloud. Variation from normal mean, 8 A.M.	Rainfall.
Orissa.	Pooree	Pooree ... Gopalpore ... False Point ...	30·008 29·995 29·988	29·695 29·687 29·677	29·884 29·875 29·874	29·896 29·887 29·895	— +·011 −·014	93·2 90·2 89·5	70·6 69·9 70·1	87·4 87·3 85·9	76·6 75·1 74·8	82·0 81·2 80·1	— −1·8 −1·0	85 85 86	— — 0	3·7 2·2 4·6	— — −0·2	13·8 10·2 10·7
	Cuttack	Cuttack ..	29·955	29·626	29·827	29·910	+·005	93·9	70·3	89·0	75·1	82·1	−0·2	79	0	4·4	+0·4	4·6
	Balasore	Balasore ...	30·021	29·626	29·836	29·916	+·005	90·4	68·9	86·6	74·5	80·5	+0·3	87	—	2·4	—	9·1
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs	Saugor Island ...	30·007	29·676	29·879	29·905	— 002	89·7	70·0	85·3	75·4	80·4	- 1·1	90	+3	5·7	+0·4	21·7
	Midnapore	Midnapore ...	29·873	29·539	29·753	29·900	—·014	93 2	65·2	88·2	73·6	80·9	+0·6	82	—	2·2	—	5·
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta ...	30·019	29·699	29·889	29·911	0	89·5	66 7	84·7	73·4	79·1	−1 5	87	+4	3·9	—1·0	8·
	Burdwan	Burdwan ...	29·946	29·612	29·821	29·924	+·006	91·6	67·4	87·1	74·9	81·0	—0·7	83	+3	4·2	—0·1	3·
	Bankoora	Bankoora ...	29·714	29·355	29·588	29·804	—·017	92·1	64·2	87·1	72·8	80·0	—1·0	83	—	3·1	—	4·
	West Burdwan ... ... Beerbhoom	Ranigunge ..	29·719*	29·339*	29·500*	29·932*	+·017	92·5	63·1	86·8	72·3	79·5	—1·2	85	—	2·9	—	8·
	Moorshedabad	Berhampore ...	29·970	29 671	29·843	29·911	—·009	90 1	64·7	85·4	73·5	79·4	—1·8	89	+7	3·9	—0·9	7·
	Nuddea	Krishnagore ...	29·9s7	29·681	29·860	29·909	+·005	91·8	63·9	86·5	72·3	79·4	—1·3	83	—	4·6	—	
	Jessore and Khoolna ...	Jessore ...	30·002	29·727	29·874	29·909	—·007	92·8	69·5	86·7	75·1	80·9	—1·0	89	+3	5·0	—0·2	9
	Chittagong	Chittagong ...	29·951	29·739	29·838	29·930	+·006	90·7	69·7*	86·7	74·6*	80·7*	+0 6	89	0	4·4	—0·7	5
East Bengal.	Chittagong Hill Tracts	Demagri ...	Observations not received.															
	Backergunge	Barrisal ...	30·024	29·776	29·895	29·905	+·008	91·3*	69·4	86·2*	74·8	83·8*	+0·4	83	—	3 7	—	7
	Noakholly	Noakholly ...	30·010	29·768	29·889	29·933	+·040	89·0	67·4	85·7	74·1	79·9	—0·1	86	—	1·3	—	10
	Furreedpore	Furreedpore ...	30·014	29·750	29·884	29 924	+·006	88·5	67·4	84 7	74·4	79·5	—0·6	86	—	3·8	—	7
	Dacca	Dacca ..	30·009	29·762	29·883	29·906	—·005	92·1	67·2	85·7	74·6	80·7	- 1·0	85	0	4 9	+0·6	4
	Tipperah	Commillah ...	30·019	29·777	29·887	29·923	+·019	91 3	65·8	86·6	73·9	79 8	—1·2	85	—	4·1	—	8
	Mymensingh	Mymensingh ..	29 984	29·744	29·858	29·917	+·012	89·7	67 1	84·7	73·1	78·9	—1·6	89	—	4·6	—	9
North Bengal.	Bogra	Bogra ...	29·960	29·702	29 833	29·897	—·041	89·3	64·1	84·2	72·5	78·4	—1·7	88	—	3·4	—	13
	Pubna	Serajgunge ...	29·991	29·740	29·865	29·912	—·003	90·6	64·8	85·2	72·8	79·0	—1·0	86	—	4·4	—	6
	Rajshahye	Rampore Beauleah.	29·962	29·687	29·838	29·909	+·009	90·3	66·7	84·9	73 8	79·4	—0·2	84	—	2·4	—	10
	Maldah	Maldah ...	29·961	29·683	29·833	29·915	+·074?	90·9	63·3	85·7	71·7	78·7	—1·6	82	—	1·8	—	6
	Dinagepore	Dinagepore ...	29·915	29·657	29·797	29·9.0	—·009	90·6	64 2	85·1	71·6	78·4	—2·1	87	—	3·0	—	1·
	Rungpore	Rungpore ..	29·935	29·660	29·808	29·936	+·008	89·8*	64·2	84·9*	71·7	78·3*	—1·1	87	—	1·7	—	2·
	Julpigoree and Cooch Behar.	Julpigoree ...	29·740	29·500	29·632	29·926	—·004	89·9	62·1	84·0	68·6	76·3	—1·5	91	—	2·0	—	1·
	Darjeeling Hill Tracts...	Darjeeling ...	23·121	22·962	23·034	—	—·019	64·0*	42·2	60·4*	40·3	54·9*	0	87	+11	5·3	—0·6	1
North Bengal.	Purneah and North Bhagulpore.	Purneah ...	29·908	29·647	29·792	29·932	+·005	89·7	60·5	84·6	70·2	77·4	—0·2	89	+3	2·5	—1·0	
	Mozufferpore	Mozufferpore ...	29·845	29·574	29·728	29·912	—	90·8	66·3*	85·4	73 4*	79·5*	—	90	—	2·1	—	
	Durbhunga	Durbhunga ...	29·675	29·500	29·756	29·927	—·018	90·9	62·0	85·7	71·1	78·4	—1·6	83	—2	1·9	—1·3	
	Chumparun	Motihari ...	29·807	29·547	29·701	29·933	+·011	91·2	58·9	86·3	69·3	77·8	+0·1	84	—	1·5	—	
	Sarun	Chupra ..	29·833	29·542	29·716	29·914	+·005	92 8	62·9	86 2	73·1	79·7	+0·6	85	—	1·2	—	
South Bengal.	Shahabad	Dehree ... Buxar ... Arrah ...	29 694 29·797 29·533	29 383 29·506 29·523	29·564 29·679 29·717	29 926 29·925 29·914	—·003 + 007 +·005	91·3 89 9 91·4	59·5 60 4 57·6	84·4 85 7 80·7	69·7* 70·3 70 8	78·1* 78·0 78·7	—0·1 —1 6 —0 2	79 79 83	— — —	1·8 1·7 2·2	— — —	
	Gya	Gya ..	29·657	29·339	29·545	29·933	+·012	91·4	61·7	86·6	70·9	78·8	—1·4	78	+5	2·9	—0·8	
	Patna	Bankipore ...	29 549	29·551	29·738	29·926	+·001	91·9	62·3	85·9	71·7	78·8	—1·7	77	0	2·3	—1·3	
	South Bhagulpore and Monghyr.	Bhagulpore ...	29·861	29·554	29·743	29·908	+·002	90·7	63·0	85·0	70 7	77·9	—1·3	84	—	2·6	—	
South Bengal.	Santhal Pergunnahs ...	Naya Doomka...	29·538	29·193	29·408	29·916	+·002	90·6	60 3	85·1	70·4	77·8	—1·1	88	—	1 9	—	
South Bengal.	Hazaribagh	Hazaribagh ...	27·997	27·680	27·885	29 934	—·003	86·5	58·8	81·5	65·6	73·5	—1·5	79	+7	2·9	—1·1	
South Bengal.	Lohardugga Manbhoom	Ranchee ..	27·819	27·539	27·773	29 927	—·003	86·0	53·9	81·4	63·9	72·7	—1·6	77	—	3·0	—	
	Singhbhoom	Chyebassa ...	28·263	28·899	29 137	29·914	+·007	90·9	60·5	87·2	69·8	78·5	—0·6	61	—	3·3	—	
Assam.	Assam	Sibsagar ... Dhubri ... Silchar ...	29·728 29·888 29·965	29·500 29·677 29·737	29·634 29·811 29·865	29·977 29·982 29·945	+ 013 —·003 +·010	90·1 87·3 84·5	63·8 64·9 66·5	83·8 81·5 82·9	70·8 71·5 73·5	77 3 77·0 80 9	—0·5 —2·2 +0·3	94 89 90	0 — 0	3·3 4·3 3·0	+1·3 +1·5 +2·4	

* Mean of 20 days.

gal for the month of October 1890.

DISTRICT OBSERVATIONS.

Area in square miles.	Rainfall. Of month. Normal mean.	Variation from mean.	Number of rainy days.	Normal number of rainy days.	Since 15th May 1890. Mean of districts.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.	Representative station.	District.	Meteorological Division.
10·28	8·18	+2·10	10·3	9·8	63·95	52·33	+11·62	90·0	77·7	Pooree ... Gopalpore ... False Point ...	Pooree	Orissa.
7·63	5·63	+1·99	7·6	8·2	61·67	49·89	+11·87	81·0	76·0	Cuttack ...	Cuttack	
5·25	5·25	+4·03	8·0	6·9	60·39	51·74	+8·65	77·4	73·0	Balasore ...	Balasore	
16·37	7·72	+10·65	11·5	8·1	65·65	61·00	+4·65	87·0	83·4	Saugor Island .	South-West Midnapore and South 24-Pergunnahs.	South-West Bengal.
4·75	4·57	+0·46	7·0	5·4	50·00	50·61	— 0 61	80·9	70·0	Midnapore ...	Midnapore	
8·23	4·17	+4·06	8·6	7·4	54·09	50·56	+3·53	82·7	87·1	Calcutta ...	24-Pergunnahs, Howrah, and Hooghly.	
4·99	3·97	+1·02	7·5	6·0	61·16	45·82	+15·34	81·3	73·6	Burdwan ...	Burdwan	
5·54	3·46	+1·88	7·0	5·9	58·01	51·47	+0·54	77·1	78·2	Bankoora ...	Bankoora	
8·08	3·46	+4·62	7·8	5·7	65·58	51·45	+12·13	86·8	81·0	Ranigunge ...	West Burdwan and Beerbhoom.	
7·44	4·22	+3·22	7·8	6·3	60·22	49·66	+10·56	81 4	76·8	Berhampore ..	Moorshedabad	
8·74	4·21	+4·53	8·0	6·4	54·09	48·30	+6 09	83·2	76·0	Krishnagore ..	Nuddea	
7·85	4·43	+3·43	9·9	6·8	53·47	52·22	+1·25	88·7	82 0	Jessore ...	Jessore and Khoolna ...	
5·88	6·65	—2·78	9·5	8·9	117·69	110·40	+7 29	103·5	103·2	Chittagong ...	Chittagong	
4·30	7·16	—2·86	6·5	10·0	72·90	77·77	— 4·87	95·5	107·2	Demagri ...	Chittagong Hill Tracts	East Bengal.
7·14	5·55	+1·59	10·3	8·5	68·16	74·35	—6·19	100·4	101·8	Barrisal ...	Backergunge	
8·80	6·57	+2·43	10·0	8·0	97·88	103·16	—5·29	107·0	103·3	Noakholly ..	Noakholly	
7·83	4·44	+3·09	9·3	7·1	45·42	54·34	—8·92	79·0	83·9	Furreedpore ...	Furreedpore	
5·16	4·45	+0·75	10·5	6·5	59 19	59·07	—0·88	95·8	87·6	Dacca ...	Dacca	
6·26	5·11	+1·15	11·5	7 3	60·11	66 95	—6·84	91·2	92·6	Commillah ...	Tipperah	
9·63	5·41	+3·63	9·2	6·7	75·68	68·10	+7·58	92·3	87·4	Mymensingh ...	Mymensingh	
11·36	4·40	+6·96	7·3	5·7	78·58	56·56	+22·02	91·9	75·5	Bogra	Bogra	
5·63	4·59	+1·04	10·5	6·5	54·38	52·53	+1·85	98·0	78·3	Serajgunge ...	Pubna	
10·02	3·73	+6·29	9·0	5·4	74·93	52·62	+22·31	91·9	73·9	Rampore Beauleah.	Rajshahye	North Bengal.
7·60	3·69	+3·91	6·5	5·8	62·12	53·40	+8·72	89·0	81·2	Maldah ...	Maldah	
11·44	3 55	+7·89	5·2	4·7	81·74	56·15	+25·59	75·8	76·4	Dinagepore ...	Dinagepore	
15·25	4·89	+13·39	6·8	5·3	106·61	73·09	+33·52	100·6	74·7	Runkpore ...	Rungpore	
14·98	5·29	+9·69	5·2	6·1	154·51	109·53	+44·98	112·6	95·1	Julpigoree ...	Julpigoree and Cooch Behar.	
14·23	6·05	+8·23	11·5	7·4	165·58	119·57	+46·01	130·1	109·4	Darjeeling ...	Darjeeling Hill Tracts.	
6·23	3·61	+2·62	4·6	4·2	80 67	57·99	+23·68	77·0	68·3	Purneah ...	Purneah and North Bhagulpore.	North Bengal.
1·79	3·40	—1·61	4·3	3·8	52·57	42·67	+9·90	74·0	55·4	Mozufferpore ...	Mozufferpore	
1·74	2·93	—1·18	4·0	3·4	57·63	43·90	+13·73	72·3	55·7	Durbhunga ...	Durbhunga	
5·67	3·54	+2·13	4·5	2·9	68·47	45·89	+22·58	67·5	51·9	Motihari ...	Chumparun	
1·48	4·21	—2·73	2·3	3·5	53·60	41·67	+11·93	63·7	54 7	Chupra ...	Sarun	
1·34	3·30	—1·96	2·3	3·6	49·59	39·06	+10·53	72·4	58·5	Dehree ... Buxar ... Arrah ...	Shahabad	South Bengal.
6·43	2·83	—3·40	2·3	3·6	56·93	40·57	+16·36	70·5	54·9	Gya ...	Gya	
1·34	3·25	—1·91	3·8	4·1	48·10	40·41	+7·69	68·6	59·6	Bankipore ...	Patna	
3·17	3·20	—0·03	5·0	4·3	53·35	43·34	+9·91	74·8	63·8	Bhagulpore ...	South Bhagulpore and Monghyr.	
10·31	3·75	+6·46	5·3	5·3	63·27	50·10	+13·17	85·0	73·8	Naya Doomka...	Santhal Pergunnahs ...	
1·75	2·97	—1·22	5·0	5·3	49·44	46·84	+0·60	78·2	77·9	Hazaribagh ...	Hazaribagh	
1·63	3·72	—1·09	4·0	5·5	47·01	46·95	+0·06	77·3	80·5	Ranchee ...	Lohardugga Manbhoom	
3 31	3·24	—0·93	5·0	5·9	41·48	46·06	—4·61	80·0	80·7			
1·75	2·95	—1·20	5·0	6·6	53·94	50·34	—16·30	83·0	87·7	Chyebassa ...	Singhbhoom	
										Sibsagar ... Dhubri ... Silchar ...	Assam	Assam.

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ORISSA ...	Pooree ...	Pooree ...	...	...	...	...	...	...	...	...	0·14	...	0·50	2·25	4·39	1·29	0·06	...	...	0·85	0·08	...
		Khurdah ...	...	...	...	...	1·54	...	...	...	...	0·11	...	1·62	2·83	0·23	...	...	0·81	0·35	...	...
		Banpur ...	...	...	...	...	...	...	...	...	0·11	...	0·16	3·94	1·67	0·17	...	...	...	0·22	...	...
		False Point ...	0·44	...	...	...	...	...	...	...	0·16	...	0 73	2·14	4·70	1·63	0·02	...	0·11	0·07	0·68	...
		Gop ...	...	...	...	0·50	1·06	...	...	...	...	0·12	1·50	3·20	1·20	...	...	0·23	2·34	0·10	...	...
		Salpara ...	...	...	...	...	...	...	...	...	0·50	...	0·25	4·05	2·46	0·25	...	...	...	...	...	...
		Pipli ...	...	...	...	...	0·47	...	...	...	...	...	1·00	2·64	0·35	...	0·09	...	...	...	...	...
	Cuttack ...	Jagatsingpore ...	...	...	...	...	...	...	...	...	...	...	1·78	1·50	1·90	0·30	0·60	0·80	...	...	...	...
		Banki ...	...	...	...	...	...	...	...	...	...	0·07	0·02	1·67	1·50	0·18	0·01	...	0·12	1·68	...	...
		Cuttack ...	...	...	...	...	...	...	...	...	...	...	...	2·40	5·35	0·68	...	...	0·06	...	...	...
		Kendrapara ...	0·13	...	...	...	0·16	...	...	...	...	0·15	0·19	3·77	2·63	0·10	...	...	...	0·06	...	...
		Jajpore ...	...	...	...	...	...	...	...	...	...	...	...	3·30	1·26	0 27	...	...	1·40	...	...	...
		Dharmsalla ...	...	...	...	...	...	...	...	...	...	...	2·50	2·40	...	...	...	...	...	...	...	...
		Salipore ...	...	...	...	...	...	...	...	...	...	...	2·30	3·26	0·64	...	...	0·30	...	...	...	...
	Balasore ...	Chandbali ...	...	...	...	0·03	...	...	...	...	...	...	...	...	4·88	1·04	...	1·91	...	0·10	...	...
		Bhuddruck ...	1·05	...	...	...	...	...	...	...	0·10	...	...	5·00	1·43	0·28	...	0·70	...	...	...	...
		Soorah ...	...	...	...	...	...	...	...	...	0·10	...	1·30	2·90	1·00	0·35	...	...	0·20	...	...	...
		Balasore ...	...	...	...	0·04	...	...	...	...	0·03	0·01	0·09	3·15	1·87	1·83	...	0·94	0 78	...	...	...
		Jellasore ...	...	...	...	...	0·60	...	...	...	...	...	...	1·29	2·30	3·54	...	1·80	0·80	0·03	...	...
		Baripodah ...	...	...	0·25	...	...	...	...	...	...	...	0·36	2·62	1·77	0·28	1·20	0·46	0·35	...	...	...
SOUTH-WEST BENGAL.	Midnapore ...	Contai ...	...	...	...	...	...	...	...	...	...	0·24	0·40	2·40	1·72	0·40	0·22	1·78	0·60	0·01	...	0·18
		Saugor Island ...	...	...	...	3·84	0·07	...	...	...	1·05	...	...	1·17	1·49	4·80	4·75	0·92	...	...	0·02	0·59
		Tumlook ...	...	...	...	0·20	...	...	...	...	...	...	...	0·50	1·10	4·00	0·50	0·70	0·10	...	...	...
		Midnapore ...	...	...	...	0·22	...	...	...	...	...	...	...	...	0·92	1·33	...	1·65	0·60	...	...	...
		Ghatal ...	...	...	0·05	0·25	...	...	...	...	...	...	...	...	0·16	1·02	0·09	0·23	0·18	...	...	...
		Kukrahaty ...	..	..	...	...	...	...	...	...	...	...	...	0·02	1·34	5·76	0·34	0·12	0·06	...	...	...
		Garbeta ...	...	...	...	0·18	...	..	...	...	...	...	...	1·53	0·74	1·80	0·25	...	0·59	...	0·02	...
	24-Pergunnahs	Diamond Harbour.	...	...	...	0·57	...	...	...	...	...	0·66	...	0·56	1·20	5·28	0·68	0·22	1·05	...	...	...
		Canning Town	...	...	...	0·16	0·38	...	...	...	...	...	...	...	0·87	2·67	4·02	4·86	0·71	...	...	...
		Alipore Jail ...	...	...	...	2·33	...	...	...	...	1·72	...	...	...	0·94	1·33	2·12	0·43	1·80	...	...	...
		Barrackpore ...	...	...	...	0·85	...	...	...	...	...	...	...	0·06	1·30	1 24	1·20	3·05	0·25	0·36	...	...
		Dum-Dum ...	...	...	...	2·04	...	...	...	...	...	...	...	...	0·72	1·55	1·12	2·14	3·82	...	...	...
		Baraset ...	...	...	...	1·27	0·08	...	...	...	...	...	...	0·20	0·59	2·25	1·28	1·80	4·12	...	...	...
		Buseerhat ..	...	...	...	1·74	...	...	...	...	...	...	...	...	0·65	2·87	3·10	1·31	0·24	0·05	...	...
	Howrah ...	Howrah ...	...	...	...	0·77	...	...	...	...	0·03	...	...	...	0·86	1·25	1·63	0·45	1·96	...	...	0·08
		Mohesreka ... (*Oolooberiah*).	...	...	...	0·18	...	...	...	...	...	...	...	...	0·60	3 15	1·10	0·23	0·02	...	...	...
	Hooghly ...	Serampore ...	...	...	...	0·18	0·71	...	...	...	...	...	...	0·23	0·97	1·21	1·20	1·25	2·23	0·39	...	...
		Hooghly ...	...	...	...	1 23	...	...	...	...	...	...	...	1·38	0·27	0·85	1·16	0·79	0·61	0·03	...	...
		Jehanabad ...	...	...	...	0·55	...	...	...	...	...	...	0·57	...	0·11	1·49	0·13	0·21	0·15	...	...	...
	Burdwan ...	Culna ..	...	...	...	1·44	...	...	...	...	...	0·16	...	...	0·73	0·80	0·22	0·40	0·22	...	...	...
		Burdwan ...	...	...	...	0·13	...	...	...	...	...	...	0·02	0·04	1·09	1·30	0·51	0·40	0·01	...	...	...
		Cutwa ...	...	0·09	1·08	...	...	...	...	...	...	..	...	1·31	1·17	0·21	2·83	...	...	...	...	...
		Ranesgunge ...	...	...	...	0·01	...	...	...	...	...	...	...	2·07	0·80	3·02	1·53	0·11	...	...	1·28	...
		Mankur ...	...	...	...	0·53	...	...	...	...	...	...	...	...	0·36	1·62	0·78	0·09	...	...	...	...
	Bankoora ...	Bankoora ...	...	...	...	...	...	...	...	...	...	...	...	0·32	0·76	3 34	0·30	0·04	...	...	...	...
		Bishenpore ...	...	...	0·21	0·14	...	...	...	...	...	...	0·14	0·21	1·32	1·89	0·55	0·13	0·04	...	...	...
		Mallara ...	...	...	...	0·47	...	...	...	...	...	...	0·92	0·03	0·85	2·72	0·83	0·10	...	...	...	...
		Khatra ...	0·60	...	...	0·41	...	...	...	...	...	0·05	...	0·18	1·58	3·80	0·10	...	...	...	...	...
		Indas ...	...	...	...	0·25	...	...	...	...	...	...	...	0·21	1·40	1·71	1·13	0·29	0·05	...	...	...
		Kotalpore ...	...	...	...	1·80	...	...	...	...	...	...	0·09	0·83	0·33	0·79	2·58	0·81	0·15	...	...	...
		Anda ...	...	...	0·40	...	...	...	...	...	...	...	...	2·40	...	3·00	3·00	0·40	...	...	...	...
		Gangajalghati ...	...	...	...	...	...	...	...	...	...	...	...	0·59	0·35	2·80	0·15	...	...	...	...	...
		Raipore ...	0·35	...	0·14	0·17	...	...	...	...	...	0·12	0·39	0·12	2·13	1·08	0·65	0·09	...	...	...	...
		Sonamukhi ...	...	...	...	...	...	...	...	...	...	...	0·61	...	0·85	1·08	0·99	0·10	...	...	...	...
	Beerbhoom ...	Bh. Soory ...	...	...	0·01	0·30	...	...	...	...	...	...	...	...	0·02	3·06	1·39	0·10	0·09	...	0·49	...
		Hetampore ...	...	...	0·51	0·10	...	...	...	...	...	...	1·77	...	0·79	2·79	2·55	0·12	...	...	...	...
		Rampore Haut	...	...	...	0·75	...	...	...	...	...	...	...	...	0·85	4·50	1·04	0·28	0·06	...	...	...
		Bolpur ...	...	...	...	...	...	...	...	...	...	...	...	...	0·57	2·76	0·60	0·10	...	...	...	...
		Murarai ...	...	...	...	...	...	...	...	...	...	...	...	...	1·10	4·71	1·30	...	...	...	...	...
	Nuddea ..	Ranaghat ...	...	...	...	0·34	...	...	...	...	...	...	...	...	0·76	0·90	1·74	1·07	1·66	0·12	...	...
		Kishnaghur ...	...	...	...	0·27	...	...	...	...	...	...	...	0·25	0·93	0·49	0·56	2·37	2 68	0·09	...	...
		Chooadanga ..	...	...	...	0·41	...	...	...	...	...	...	...	0·30	1·01	1·05	0·35	3·80	0·85	...	...	...
		Meherpore ...	...	...	...	1·25	...	...	...	...	...	...	...	0·75	0·10	0·56	6 33	4 20	...	...	...	...
		Koushea ..	...	...	...	0·67	...	...	...	...	...	...	...	...	0·49	0·60	0·88	2·40	1·71	...	...	...
	Khoolna ..	Satkhira ...	...	...	...	0·46	0·16	...	...	0·61	...	...	...	0·40	0·34	1·89	1·18	0·24	0·76	...	...	...
		Bagirhat ...	...	...	...	...	...	...	...	...	...	...	...	...	1·13	1·01	0·48	1·21	...	...	...	...
		Khoolna ...	...	...	...	0·32	...	...	...	...	0·84	...	...	0·18	0·75	1·05	1·29	1·33	0·99	0·13	...	...
		Nakipur ...	...	...	...	0·38	...	...	...	...	...	...	...	...	2·30	1·96	0·71	0·90	1·93	...	...	...
		Rampal ...	...	...	...	...	...	...	0·16	...	...	...	...	1·09	1·25	1·89	2·03	2·51	0·33	0·19	...	...
	Jessore ...	Narail ...	...	...	...	0·71	...	0·05	...	0·08	...	...	...	0·02	0·81	1·00	1·15	0·54	0·15	0·06	...	...
		Jessore ...	..	...	...	0·58	0·03	...	...	...	...	...	...	...	0·45	1·08	1·76	2·47	0·56	0·36	...	...
		Jhenidah ...	...	..	..	0·15	...	...	...	...	...	...	...	...	1·26	1·50	0·22	0·09	0·35	0·36	...	...
		Magoorah ...	...	...	...	...	...	...	...	...	...	...	...	...	0·77	0·44	1·11	1·20	0·14	0·06	...	...
		Bongong ...	...	...	...	0·45	0·15	...	...	...	...	...	...	1·99	0·75	0·85	1·90	2·65	0·25	...	...	...
	Moorshedabad	Kandi ...	...	...	0·53	0·72	...	...	...	...	...	...	...	...	0·63	1·18	1·36	0·34	...	...	...	...
		Berhampore ...	0·48	...	0·11	0·29	...	...	...	...	...	...	...	0·08	0·29	2·29	2·10	1·13	...	...	...	...
		Lalbagh ...	0·11	...	...	...	...	...	...	...	...	...	0·04	0·06	0·99	2·19	2·43	1·25	0·16	0·03	...	...
		Aaimgunge ...	...	...	...	...	...	...	...	...	...	...	...	0·16	0·42	2·09	1·62	2·15	0·20	...	...	...
		Jungipore ...	0·20	...	0·04	...	...	...	...	0·02	...	...	...	...	0·94	2·95	2·34	1·60	0·48	...	...	...
		Lalgola ..	...	...	...	...	...	...	...	...	...	...	...	0·15	1·80	2·35	2·45	2·60	0·75	...	...	...
		Jiagunge ...																				
		Akhrigunj ...	...	...	...	1·05	...	...	...	...	...	...	0·85	0·75	...	1·39	1·40	2·60	0·28	...	...	...
		Patkabari ...	...	0·10	...	...	...	...	...	...	...	...	0·30	0·70	0·70	...	2·30	0·20	...	...	...	...
EAST BENGAL	Chittagong ...	Cox's Bazar ...	...	...	...	...	...	...	...	0·10	...	...	...	0·13	0·53	...	...	...	0·35	...	...	...
		Chittagong ...	...	...	...	...	0·10	...	...	0·74	0·15	...	...	...	1·35	...	...	...	0·88	...	...	...
		Kutubdia ...	...	...	...	...	0·29	...	...	0·07	...	...	0·47	0·05	1·25	0·14	...	...	0·14	...	1·06	...
		Saltanga ...	...	...	...	...	...	...	...	...	...	...	0·50	...	0·55	...	...	0·40	0·65	...	...	...
	Chittagong Hill Tracts.	Rangamati ...	...	...	...	...	...	...	...	0·51	...	0·20	0·22	0·05	...	...	...	0·15	0·22	...	...	...
		Bruna ...	...	...	...	...	...	...	...	...	...	...	1·45	...	...	...	...	...	3·05	...	...	...

in Bengal in October 1890.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st October 1890.	Average rainfall from 1st January up to 31st October.	Station.	District.	Meteorological division.
...	...	...	...	...	0·80	...	...	...	0·30	1·24	11	11·3	11·90	8·08	4·39	69·09	51·85	Pooree ...	Pooree ...	Orissa.
...	...	...	...	...	...	...	...	...	1·30	0·03	9	10·9	8·71	6·60	2·03	69·89	56·98	Khurdah.		
...	...	...	...	...	0·50	...	...	0·15	0·98	1·90	10	7·9	9·80	6·84	3·94	67·96	51·31	Banpur.		
...	...	...	...	...	...	...	...	...	...	0·03	11	9·2	10·71	10·27	4 70	63·17	56·52	False Point,		
...	...	...	...	...	...	...	...	...	...	0·24	10	?	10·49	?	3·20		?	*Gon.*		
0·60	...	...	...	...	...	...	...	...	0·15	1·45	8	?	9·71	?	4·05		?	*Satpara.*		
...	...	...	...	...	...	...	...	0·10	1·08	0·13	8	?	6·69	?	2·64		?	*Pipli.*		
...	...	...	...	...	...	...	...	1·80	0·70	0 07	9	7·8	9·45	6·47	1·90	64·84	50·22	Jagatsingpore.	Cuttack.	
...	...	...	...	...	...	...	...	...	0·62	...	9	10·1	6·47	4·81	1 68	65·08	51·67	Banki.		
...	...	...	...	...	...	...	...	...	...	0·10	5	9·8	8·54	5·45	5·35	83·21	56·53	Cuttack.		
...	...	...	...	...	...	...	...	...	0·03	0·09	10	7·2	7·31	5·94	3·77	53·27	55·67	Kendrapara.		
...	...	...	...	...	...	...	...	...	...	0·09	5	6·4	6·32	5·12	3·30	54·97	58·54	Jajpore.		
...	...	...	...	...	...	...	...	...	...	0·20	3	?	5·10	?	2·30	55·33	?	*Dharmsala.*		
...	...	...	...	...	...	...	...	...	...	1·21	5	?	7·71	?	3·26	53·16	?	*Salipore.*		
...	...	...	...	...	...	...	...	...	...	0·58	6	7·1	8·54	6·07	4·88	53·52	56·67	Chandbali ...	Balasore.	
...	...	...	...	1·58	...	...	...	...	...	1·00	8	6·8	11·14	4·43	5·00	61·73	57·17	Bhuddruck.		
...	...	...	...	...	...	...	...	...	...	1·15	7	5·7	7·00	5·24	2·90	64·00	55·90	Sorah.		
...	...	...	...	...	...	...	...	...	...	0·49	10	8·4	9 18	6·61	3·15	70·92	63·45	Balasore.		
...	...	...	...	...	...	...	...	...	...	...	7	5·8	10·36	4·84	3·54	96·78	50·76	Jellasore.		
...	...	...	...	...	...	...	...	...	1·37	0·77	10	7·7	9·43	4·39	2·62	60·63	59·72	Baripodah.		
0·19	..	...	...	...	...	...	...	...	...	4·47	12	7·0	21·61	8·09	9·40	69·86	67·87	Contai ...	Midnapore ...	South-West Bengal.
1·58	...	...	...	...	...	...	...	...	...	1·48	12	9·6	21·76	9·06	4·80	68·64	78·11	Saugor Island.		
...	...	...	...	...	...	...	...	...	...	...	7	4·1	7·10	4·19	4·00	59·30	58·00	Tumlook.		
...	...	...	...	...	...	...	...	...	...	0·38	6	6·9	5·10	4·02	1·65	49·54	58·98	Midnapore.		
...	...	...	...	...	...	...	...	...	...	...	8	5·3	1·98	3·32	1·02	47·02	61·73	Ghatal.		
1·10	...	...	...	...	...	...	...	...	...	...	7	?	10·25	?	5 76	51·86	?	*Kukrahaty.*		
...	..	...	...	...	...	...	...	...	...	...	6	?	3·58	2·56	1·80	51·42	53·47	*Garbeta.*		
1·43	...	...	...	...	...	...	...	...	...	0·12	10	7·4	11·77	5·05	5·28	64·51	66·01	Diamond Harbour.	24-Pergunnahs	
...	0·49	0·15	...	...	...	...	...	...	...	...	9	?	14·03	?	4·58	67·78	?	*Canning Town.*		
1·45	0·04	0·02	...	...	...	...	...	...	...	...	10	8·3	9·68	4·30	2·12	64·82	62·55	Alipore Jail.		
...	...	...	...	...	...	...	...	...	...	...	8	6·8	8·41	3·31	3·05	53·81	53·14	Barrackpore.		
0·16	0·46	...	0·03	...	...	...	...	...	...	...	9	7·1	12·04	4·28	3·82	58·13	59·40	Dum-Dum.		
0·08	...	...	...	...	...	...	...	...	...	...	9	7·1	11·17	4·36	4·12	57·08	58·15	Baraset.		
...	0·93	...	...	...	...	...	...	...	...	...	8	7·2	10·89	4·23	3·10	65·67	61·85	Buseerhat.		
0·03	0·01	...	...	...	...	...	...	...	...	...	10	9·2	7·06	4·13	1·96	53·22	60·68	Howrah ...	Howrah.	
...	...	...	...	...	...	...	...	...	...	...	6	6·2	5 28	3·33	3·15	60·49	59·31	Mohesreka (*Oolooberiah*).		
...	0·04	...	...	...	...	...	...	...	...	...	10	8·4	8·41	4·10	2·23	57·04	57·62	Serampore ...	Hooghly.	
...	...	0·04	...	...	...	...	...	...	...	...	9	7·8	6·17	3·95	1·38	53·93	59·14	Hooghly.		
...	...	...	...	...	...	...	...	...	...	...	7	5·9	3·21	4·16	1·49	54·60	62·09	Johanabad.		
...	...	...	...	...	...	...	...	...	...	...	7	5·1	3·97	3·74	1·44	57·52	52·06	Culna ...	Burdwan.	
...	...	...	...	...	...	...	...	...	...	...	8	6·4	3·50	4·40	1·30	67·33	56·45	Burdwan.		
...	...	...	...	...	...	...	...	...	...	0·80	7	6·5	7·49	3·85	2·83	67·27	5·19	Cutwa.		
...	...	...	...	...	...	...	...	...	...	0·01	8	6·1	8·33	3·24	3·02	62·18	53·33	Raneegunge.		
...	...	...	...	...	...	...	...	...	...	...	5	?	3·38	?	1·62	49·69	?	*Mankur.*		
...	...	...	...	...	...	...	...	...	...	...	5	7·1	4·76	4·52	3·34	60·01	55·79	Bankoora ...	Bankoora.	
...	...	...	...	...	...	...	...	...	...	...	9	6·0	4·66	2·87	1·89	53·11	57·04	Bishenpore.		
...	...	...	...	...	...	...	...	...	...	...	7	5·0	5·92	3·67	2·72	60·56	53 35	Maliara.		
...	...	...	...	...	...	...	...	...	...	...	7	5·6	6·02	3·92	3·30	41·06	58·68	Khatra.		
...	...	...	...	...	...	...	...	...	...	...	7	?	5·74	?	1·71	61·95	?	Indas.		
...	...	...	...	...	...	...	...	...	...	...	8	?	6·68	?	2·38	70·13	?	Kotalpore.		
...	...	...	...	...	...	...	...	...	...	...	5	?	9·20	?	3·00	56·01	?	Anda.		
...	...	...	...	...	...	...	...	...	...	...	4	?	3·87	?	2·80	65·40	?	Gangajalghati.		
...	...	...	...	...	...	...	...	...	...	...	10	?	6·13	3·77	2·12	54·76	56 67	*Raipore.*		
...	...	...	...	...	...	...	...	...	...	...	5	?	4·51	?	1·96	54·39	?	*Sonamukhi.*		
...	...	...	...	...	...	...	...	...	...	0·01	9	6·6	6·37	3·59	3·06	63·81	55·56	Bh. Soory ...	Beerbhoom	
...	...	...	...	...	...	...	...	...	...	0·40	8	4·2	9·03	2·71	2·79	62·69	57·76	Heriampore.		
...	...	...	...	...	...	...	...	...	...	...	6	6·0	8·08	3·69	4·50	73·38	56·01	Rampore Haut.		
...	...	...	...	...	...	...	...	...	...	...	4	?	4·03	?	2·76	58·83	?	*Bolpur.*		
...	...	...	...	...	...	...	...	...	...	...	3	?	7·11	?	4·71	60·09	?	*Murarai.*		
...	...	0·11	...	...	...	...	...	...	...	...	8	5·5	7·50	3·64	1·74	58·21	54·65	Rangahat ...	Nuddea.	
...	...	...	0·03	...	...	...	...	...	...	...	9	7·1	7·67	4·58	2·08	63·16	55·10	Kishnaghar.		
...	...	0·50	...	...	...	...	...	...	...	...	6	6·1	8·27	4·35	3 80	51·01	59·72	Choodanga.		
...	...	...	0·06	...	...	...	...	...	...	...	7	5·9	13·25	3·51	6·30	61·61	55·90	Meherpore.		
...	0·66	0·18	...	...	...	...	...	...	...	...	8	7·2	6·99	4·73	2·40	58·41	61·66	Kooshtea.		
...	0·78	0·82	...	...	...	...	...	...	...	...	11	7·6	7·04	4·45	1·89	63·27	63·75	Satkhira ...	Khoolna.	
...	1·02	1·50	...	...	...	...	...	...	...	...	6	5·6	6·35	5·03	1·59	66·92	66·66	Bagirhat.		
...	1·06	0·03	...	...	...	...	...	...	...	...	11	6·9	7·99	4·07	1·33	58·00	64·09	Khoolna.		
...	6·95	...	...	...	...	...	...	...	...	...	7	?	15·13	?	6·95	79·18	?	*Nakipur.*		
...	1·31	0·78	...	...	...	...	...	...	...	...	10	?	11·44	?	2·51	68·72	?	*Rampal.*		
...	1·13	6·35	0·06	...	...	...	...	...	...	...	11	6·9	12·01	3·14	6·35	59·91	56·22	Narail ...	Jessore.	
...	0·54	1·79	0·04	...	...	...	...	...	...	...	13	8·0	9·76	5·36	2·47	68·06	66·55	Jessore.		
...	0·60	0·33	...	...	...	...	...	...	...	...	9	6·5	5·95	4·58	1·50	59·09	61·50	Jhenidah.		
...	0·42	1·02	0·03	...	...	...	...	...	...	...	9	7·3	5·19	3·75	1·20	50·29	59·27	Magoorah.		
...	0·45	...	...	...	...	...	...	...	...	...	9	5·7	8·50	4·60	2·05	50·63	58·33	Bongong.		
...	...	...	...	...	...	...	...	...	...	...	8	6·2	4·81	3·70	1·56	67·29	54·60	Kandi ...	Moorshedabad.	
...	...	...	...	...	...	...	...	...	...	0·89	9	6·7	7·61	5·20	2 29	61·20	54·94	Berhampore.		
...	...	...	...	...	...	...	...	...	...	0·48	10	6·1	7·59	4·36	2·49	64·33	54·73	Lalbagh.		
...	...	...	...	...	...	...	...	...	...	0·30	7	6·2	6·65	4·02	2·15	59·06	54·97	Azimgunge.		
...	...	0·09	...	...	...	...	...	...	...	...	9	5·9	6·46	3·69	2·95	54·21	55·34	Jungipore.		
...	...	...	...	...	...	...	...	...	...	...	8	6·3	9·30	4·13	2·45	69·74	54·89	Lalgola.		
...	...	...	...	...	...	...	...	...	...	0·40	3	?	3·83	?	2·60	62·69	?	Jaigunge.		
...	...	...	...	...	...	...	...	...	...	0·80	7	?	4·60	?	2·80		?	*Akhriganj.*		
																		Patkabari.		
	0·30	0·26	0·35	...	...	0·46	...	...	...	...	9	6·2	3·39	7·68	0·95	134·58	141·94	Cox's Bazar ...	Chittagong ...	East Bengal.
	0·20	0·21	0·23	0·09	0·51	...	...	...	...	...	10	8·9	4·96	5·96	1·35	115·99	103·41	Chittagong.		
	0·03	3·27	0·54	0·06	...	...	...	...	...	...	12	?	6·30	?	2 27	117·77	?	*Kutubdia.*		
	0·20	...	...	...	...	...	...	...	...	...	6	?	2·24	?	0·75	87·63	?	*Sathanga.*		
	0·15	0·39	...	0·19	0·36	...	...	...	...	...	10	10·4	3·60	6·85	0·95	61·85	93·69	Rangamati ...	Chittagong Hill Tracts.	
	...	...	...	...	...	...	...	...	...	...	5	9·6	5·00	7·39	2·05	85·85	95·54	Rama.		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
East Bengal —*concld.*	Backergunge...	Patuakhally ...	..	...	...	1·00	0·25	...	...	0·50	...	...	...	0·37	4·50	1·00	0·27	...	1·22	...	...	...
		Perozepore ...	...	...	...	0·22		...	...	...		...	...	0·21	0·86	0·91	0·75	...	0·64	0·05	...	...
		Burrisal ...	...	...	...	0·42	0·58	0·06	...	...	...	0·10	0·11	0·10	2·12	0·78	0·15	...	0·15	0·42	...	...
		Bhola ...	...	...	...	...	0·27	...	...	...	...	...	0·11	0·70	2·38	0·76	...	...	0·67	...	0·80	...
		Gournaddi ..	...	...	...	...		...	...	...	...	...	...	0·55	2·35	...	0·60	0·4[illegible]	...	...	...	...
		Bauphal ...	...	...	...	0·82	0·62	...	...	0·36	...	...	...	0·86	3·50	0·50	...	...	0·08	0·30	...	...
	Noakholly ...	Noakholly ...	...	...	...	...	.	...	...	0 31	...	...	0·08	...	4·75	0·35	...	0·28	0·13	...	...	...
		Fenny ...	...	...	...	...	...	...	...	..	1·05	...	0·15	...	1·95	0·55	...	...	...	..	0·80	...
		Harishpore ...	...	...	...	...	...	...	...	0·10	...	...	...	2·20	2·28	...	...	0·31	...	...	...	...
		Ramganj ...	..	...	...	...	...	...	...	...	...	...	...	...	2·00	0·25	...	0·09	...	0·20	..	...
	Furreedpore...	Madaripore ...	...	...	0·16	0·13	...	...	...	...	...	...	...	...	2·30	...	1·22	1·45	0·05	1·13	...	...
		Furreedpore..	...	...	1·35	...	...	...	...	...	...	...	...	0·25	0·13	0·73	0·57	0·92	...	...	...	...
		Goalundo ...	...	...	...	1·09	...	...	...	...	...	...	...	0·57	...	0·15	1·50	0·8	0·26	0·42	...	...
	Dacca ..	Munshigunge	...	...	...	0·20	...	...	...	...	...	...	0·05	0·11	0·26	0·25	0·20	...	...	0·11	...	...
		Dacca ...	...	...	...	1·12	...	...	...	...	...	...	...	0·85	0·41	0·11	0·10	0·3	0 20	0·20	...	...
		Narainnunge	...	...	...	0·39	...	...	...	...	...	...	...	...	0·29	...	0·28	...	...	0·33	...	...
		Manickgunge	...	...	0·34	0·38	...	...	...	...	...	...	0·13	...	1·21	0·28	0·54	0·32	0·05	0·67	...	...
		Joydebpore ...	...	...	...	0·83	...	...	...	...	...	...	...	0·46	0·30	0·19	0·06	0·60	0·01	0·32	...	...
	Hill Tipperah	Agartola ...	...	...	...	0·63	...	...	...	...	...	...	...	...	1·55							
	Tipperah ..	Comilla ...	...	...	..	0·07	...	...	0·03	...	...	...	...	0·94	2·57	0·56	0·03	...	0·30	1·50	...	...
		Chandpore ...	...	...	...	0·18	...	...	...	...	...	...	...	...	1·05	1·02	...	0·35	0·12	0·75	...	...
		Brahmunberia	...	...	...	0·14	..	0·21	...	...	...	...	...	...	0·30	0·32	...	0·1[illegible]	..	1·03	0·10	...
		Ramchandrapore.	...	...	...	...	...	...	...	...	...	...	0·17	0·21	0·46	...	...	0·24	0·21	0·87	0·77	...
		Nasirnagar ...	...	...	...	0·40	...	...	...	...	...	...	...	...	...	...	...	...	0·50	0·30	...	...
		Daudkandi ...	...	...	...	...	...	...	...	...	...	...	...	...	0·79	0·15	0·05	0·04	...	0·89	...	...
		Kasba ...	...	...	...	...	...	...	...	...	...	...	...	0·27	0·05	...	...	...	0·27	...	...	...
		Laksham ...	...	...	...	...	..	...	...	...	...	...	...	...	1·82	...	...	...	...	..	...	...
	Mymensingh .	Kishoregunge	...	...	..	0·65	...	1·93	...	...	...	...	...	...	...	...	...	1·20	0·21			
		Atia (*Tangail*)	...	...	0·68	0·08	...	...	...	...	...	...	...	0·46	0·70	0·06	0·57	1·48	0·57	0·30	...	...
		Mymensingh	...	...	...	0·56	0·03	...	...	...	...	...	...	...	...	0·15	0·80	0·44	2 34	0·37	0·55	...	...
		Jamalpore ...	...	...	...	...	0·52	...	...	...	...	...	...	0·82	...	0·73	0·59	1·59	3·72	...	2 12	...	...
		Netrokona ...	...	...	...	...	2·70	...	...	...	...	...	...	...	...	0·60	3·20	0·18	0·87	...	...	0·75	...
		Subornakhally	...	...	...	0·05	...	...	...	...	...	...	...	...	...	0·38	0·80	0·65	3·95	0·08	0 45	...	...
		Durgapore ...	...	...	...	2·52	2·90	...	...	...	...	...	...	0·70	0·69	0·50	3·40	0·20	...	0·22	...	...
		Sherpore Town	...	...	...	0·52	0·14	...	...	...	...	...	...	...	0·67	1·30	1·42	4·75	0·35	0·19	...	...
		Dewanganj ...	...	...	0·55	...	...	..	...	...	...	0·46	...	...	1·42	6·50	1·80	0·29	...	...	...	...
North Bengal	Pubna ...	Pubna ...	...	...	...	0·39	...	...	...	...	...	...	...	...	0·48	0·32	0·54	1·29	0·51	0·16	...	...
		Serajgunge ...	...	...	...	0·17	...	...	...	...	...	...	0·16	...	1·15	1·48	1·16	2·87	0·01	0·04	...	...
	Bogra ...	Sherpore ...	...	...	...	0·03	....	...	...	...	...	...	...	...	0·31	3·41	2·10	3·74	0·48	...	...	...
		Nowkhilla ...	...	...	...	...	...	...	...	...	...	...	0·36	...	0·50	0·72	2·77	5·27	...	0·51	...	...
		Bogra ...	...	...	..	...	...	...	...	...	...	...	...	...	0·58	4·35	3·33	3·32	0·23	0·15	...	...
		Panchbibi ...	...	...	0·15	...	0·07	...	...	...	...	...	...	0·29	0·95	2·00	7·28	2·00	0·31	...	...	...
	Rajshahye ...	Beauleah ...	0·03	...	...	2·08	...	...	...	...	...	...	0·01	0·37	2·03	2·18	1·03	1·87	0·71	...	...	...
		Nattore ...	...	...	..	0·08	..	...	...	...	...	...	...	...	0·20	1·38	1·45	2·35	3·20	0·65	...	...
		Naogaon ...	...	...	0·39	...	...	...	...	...	...	...	...	1·38	0·62	3·[illegible]	2·16	1·10	...	...	...	...
		Lalpore ...	...	...	0·32	...	...	...	...	...	...	1·70	...	0·20	0·93	0·90	2·80	0·85	0·48	0·48	...	...
		Manda ...	...	0·40	..	...	..	...	...	...	...	...	...	0·20	5·20	3·10	3·17	0·20	...	...	...	...
	Maldah ...	Maldah ...	...	...	...	0·12	0·02	...	...	...	...	...	...	0·12	0·17	2·95	2·34	0·70	0·45	...	...	...
		Chanchal ...	...	...	...	...	...	...	...	...	...	...	...	...	0·37	1·38	6·25	0·18	0·15	...	...	...
		Gajol ...	...	...	...	...	0·10	...	...	...	...	...	...	...	0·90	1·50	2·83	1·00	0·19	...	...	...
		Sibganj ...	...	...	...	...	...	...	...	...	...	...	...	0·30	0·79	2·44	3·22	4·80	1·55	...	...	...
	Dinagepore ...	Mohadebpore	...	...	...	0·16	...	...	...	...	...	...	...	0·15	2·00	4·50	1·80	0·50	...	...	...	...
		Churamon ...	...	...	...	...	...	...	...	...	...	...	...	...	0·65	1·95	6·68	0·26	0·14	...	...	...
		Raigunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	5·60	7·52	0·65	...	...	...	...
		Dinagepore ...	...	...	...	...	0·40	...	...	...	...	...	...	...	...	1·70	10·70	1·55	0·38	0·05	...	...
		Baloorghat ..	...	...	...	...	0·35	...	...	...	...	...	...	...	0·43	2·20	6·04	1·11	0·26	...	...	...
		Thakurgaon...	...	...	...	0·11	...	...	...	...	...	...	...	...	1·41	12·80	8·22	0·27	...	...	...	...
	Rungpore ...	Bhawanigunge (*Gyabunda*).	...	...	0·95	...	0·50	...	...	...	...	...	...	...	...	2·05	13·30	2·90	...	0·30	...	...
		Rungpore ...	...	...	...	1·17	...	...	...	...	...	...	...	...	...	3·80	14·06	0·68	0·30	0·04	...	...
		Kurigram ...	...	...	2·60	0·23	0·67	...	...	...	...	...	...	...	0·26	3·43	10·10	0·25	0·05	...	...	...
		Bagdogra ...	...	...	0·08	1·15	...	...	...	...	...	...	...	...	0·25	1·32	9·75	1·71	0·11	...	...	...
		(*Nilphamari*).																				
		Ulipore ...	...	...	0·45	0·98	...	...	...	...	...	...	...	...	...	3·83	13·36	1·27	...	...	...	...
	Julpigoree ...	Julpigoree ...	...	1·88	0·21	0·88	3·13	...	...	...	...	...	...	...	...	2·45	6·26	3·61	0·73	...	...	...
		Alipore Doar	...	1·01	1·18	...	0·75	...	...	...	...	...	...	...	...	2·61	5·31	2·92	...	...	...	...
		Falacotta ...	...	...	1·66	...	3·38	...	...	...	...	...	...	...	...	4·22	5·20	2·17	0·15	...	...	...
		Debiganj ...	...	...	0·86	1·06	...	...	...	...	...	...	...	...	...	1·06	5·45	2·66	0·14	...	...	...
		Bhogotpore (*Nagrakatta*).	...	0·09	0·30	2·20	...	1·03	0·24	0·05	...	...	...	...	...	2·12	4·60	2·79	1·09	...	...	...
	Cooch Behar...	Dinhatta ...	...	...	0·29	0·12	0·38	...	...	...	...	...	...	...	...	3·50	12·11	1·03	0·66	...	...	...
		Cooch Behar ...	...	0·05	0·50	...	0·40	0·05	...	...	...	...	...	...	0·08	4·30	5·51	1·30	...	...	...	...
		Mekligunge...	...	0·18	...	0·50	1·30	...	...	...	...	...	...	0·09	...	1·21	3·64	3·00	0·31	...	...	...
		Mathabhanga...	...	0·18	0·75	0·02	1·13	0·02	...	...	...	...	...	...	...	3·04	6·97	1·34	0·38	0·10	...	...
	Darjeeling Hill	Buxa ...	...	0·94	0·48	3·27	3·06	0·64	0·19	0·26	...	...	...	...	...	1·87	3·00	2·31	0·20	0·06	...	...
		Siliguri ...	...	1·68	0·27	1·36	0·17	...	0·14	...	...	...	...	0·25	...	1·34	2·40	1·62	1·23	...	...	...
		Darjeeling ...	0·21	0·28	...	...	...	0·01	...	0·06	...	...	...	...	...	0·74	0·97	1·58	1·66	0·13	...	...
		Kalimpong ...	...	0·64	...	0·08	...	...	0·05	...	...	...	0·16	0·18	0·28	1·28	2·20	1·44	2·11	0·68	...	0·08
		Kurseong ...	0·04	0·18	...	...	0·16	...	0·04	...	...	...	...	...	...	1·28	3·20	3·70	2·55	0·40	...	...
North Bengal	Purneah ..	Kissengunge	...	...	...	...	0·12	0·14	...	...	...	...	...	...	...	2·09	5·75	1·16	0·06	...	...	...
		Arrareah ...	...	...	...	0·42	...	...	...	...	...	...	...	...	...	1·70	6·26	0·40	...	...	...	...
		Purneah ...	...	...	...	...	0·11	0·25	...	...	...	...	...	...	...	1·66	4·29	0·97	0·09	...	...	...
		Goadwara ...	...	...	...	...	...	...	...	...	...	...	...	0·10	1·04	2·20	6·25	0·27	...	...	...	...
		Balarampore ...	...	...	...	0·70	...	...	...	...	...	...	...	1·39	1·39	6·39	3·52	1·16	...	...	...	...
		Katiari ...	...	...	...	...	...	...	...	...	...	...	...	1·37	1·28	0·93	...	...	...	...	...	...
		Raliganj ...	...	0·58	...	...	0·28	...	...	...	...	...	...	...	...	1·26	4·00	1·14	0·24	...	...	...
	North Bhagulpore.	Maddepore ...	...	...	...	0·09	0·28	0·09	...	...	...	...	...	...	...	1·02	1 30	0·09	...	...	...	...
		Nodgong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·44	0·20	...	...	...	...	...
		Pukhtagunj ...	...	...	...	0·72	...	...	...	...	...	...	...	...	...	1·55	0·26	...	...	...	...	...

in Bengal in October 1890 —*continued*.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st Oct. 1890.	Average rainfall from 1st January up to 31st October.	District.	Station.	Meteorological division.
...	0·88	0·20	...	...	...	...	...	...	...	...	10	8·8	9·49	6·11	4·50	83·61	95·20	Patuakhally ...	Backergunge.	EAST BENGAL —*concld.*
...	1·36	0·17	...	...	...	...	...	...	...	...	9	7·3	5·17	5·49	1·36	65·77	77·24	Perozepore.		
...	0·96	1·20	0·03	...	...	...	...	...	...	...	13	8·9	7·07	4·78	2·12	72·24	77·04	Burrisal.		
...	1·11	0·56	...	...	...	...	...	...	...	...	9	8·9	6·81	6·26	2·83	73·53	90·13	Bhola.		
...	1·45	0·96	...	...	...	...	...	...	...	...	6	?	5·49	?	2·35	52·06	?	*Gournaddi.*		
...	1·90	...	...	...	...	...	...	...	...	...	9	?	8·94	?	3·50	76·57	?	*Bauphal.*		
...	2·50	1·53	0·09	0·06	...	...	...	...	...	...	10	9·0	10·08	7·68	4·75	105·02	110·26	Noakholly ...	Noakholly.	
...	0·48	0·40	0·15	0·60	2·00	...	...	...	...	...	10	8·8	7·53	6·14	2·00	114·61	117·85	Feuny.		
...	2·50	2·00	0·50	0·62	0·40	...	...	...	...	...	9	?	10·90	?	2·50	177·42	?	*Harishpore.*		
...	1·43	0·85	...	...	...	...	...	...	...	...	6	?	4·80	?	2·00	74·25	?	*Ramganj.*		
...	...	2·23	0·04	...	...	...	...	...	...	...	9	7·5	8·71	4·02	2·30	51·83	67·05	Madaripore ...	Furreedpore.	
0·19	3·05	0·18	...	...	...	...	...	...	...	...	9	7·2	7·38	4·32	3·05	59·01	68·35	Furreedpore.		
...	0·34	1·21	0·14	...	...	...	...	...	...	...	10	6·6	6·49	4·60	1·50	58·56	62·52	Goalundo.		
...	0·20	2·70	0·09	...	...	...	...	...	...	...	10	6·4	4·17	5·24	2·70	67·17	84·15	Munshigunge.	Dacca.	
...	0·16	2·22	0·32	0·04	...	...	...	...	...	...	12	7·2	6·06	5·09	2·22	71·21	72·17	Dacca.		
...	0·19	1·60	0·18	...	...	...	...	...	...	...	7	5·3	3·26	4·30	1·60	70·99	73·01	Naraingunge.		
...	0·10	1·95	0·67	0·09	...	...	...	...	...	...	13	7·0	7·23	3·78	1·95	69·79	61·31	Manickgunge		
...	0·09	1·67	0·95	0·87	...	...	...	...	...	...	12	?	6·35	?	1·67	79·33	?	*Joydebpore.*		
												7·3		4·45			77·30	Agartola ..	Hill Tipperah.	
...	0·60	0·46	0·13	0·97	0·05	...	...	...	...	...	13	7·0	8·21	5·24	2·57	74·90	91·14	Comilla ..	Tipperah.	
...	0·78	0·70	0·12	0·05	...	...	...	...	...	...	10	6·9	5·12	6·48	1·05	67·28	87·33	Chandpore.		
...	0·24	2·30	0·45	0·18	...	...	...	...	...	...	11	7·4	5·37	4·69	2·30	69·02	78·79	Brahmunberia.		
...	0·48	4·58	0·19	0·27	...	...	...	...	...	...	11	?	8·45	?	4·58	85·97	?	*Ramchandrapore.*		
			0·40								4	?	1·80	?	0·60	64·41	?	*Nasirnagar.*		
...	...	...	1·02	0·70	...	...	...	...	...	...	9	?	5·21	?	1·05	35·86	?	*Daudkandi.*		
...	0·52	1·05	0·05	...	...	...	...	...	...	...	5	?	0·84	?	0·27	61·22	?	*Kasba.*		
...	...	0·20	...	...	...	...	...	...	...	...	2	?	3·22	?	1·82	80·60	?	*Laksham.*		
...	...	1·40	...	...	...	...	...	...	...	...	7	7·9	6·10	5·18	1·93	81·10	82·62	Kishoregunge.	Mymensingh.	
...	...	0·65	1·25	...	...	...	...	...	...	...	12	5·7	8·95	4·90	1·75	66·98	63·69	Atia (*Tangail*).		
...	...	0·52	1·11	...	...	...	...	...	...	...	11	8·2	8·88	5·39	3·15	91·57	91·85	Mymensingh.		
...	...	0·09	3·15	0·60	...	...	...	...	...	...	8	6·0	10·20	4·86	3·72	92·80	75·32	Jamalpore.		
...	...	...	0·20	...	...	...	...	...	...	...	8	5·6	10·02	7·27	3·20	108·40	95·20	Netrokona.		
...	...	0·97	1·65	...	...	...	...	...	...	...	8	?	6·86	?	3·95	67·57	?	*Subornakhally.*		
...	...	...	0·2	...	...	...	...	...	...	...	10	?	11·83	?	3·40	133·25	?	*Durgapore.*		
...	0·10	...	0·60	...	...	...	...	...	...	...	9	?	9·48	?	4·75	83·00	?	*Sherepore Town*		
...	...	...	0·14	...	...	...	...	...	...	...	6	?	11·02	?	6·50	81·84	?	*Dewanganj.*		
...	0·03	0·16	0·26	...	...	...	...	...	...	...	10	7·0	4·14	4·57	1·29	60·82	63·76	Pubna ...	Pubna ...	NORTH BENGAL.
...	...	0·04	0·02	0·01	...	...	...	...	...	...	11	6·0	7·11	4·29	2·57	74·18	60·44	Serajgunge.		
			0·11								7	5·4	10·16	3·95	3·74	81·37	68·34	Sherpore ..	Bogra.	
...	...	...	...	...	...	...	...	...	...	...	7	6·0	10·18	4·76	5·27	87·42	61·29	Nowkhilla.		
...	...	0·05	...	...	...	...	...	...	...	...	7	6·4	12·06	4·53	4·35	84·08	74·81	Bogra.		
...	...	...	0·11	...	...	...	...	...	...	...	8	5·1	13·05	3·90	7·28	88·52	60·25	Panchibibi.		
...	...	...	...	...	...	...	...	...	...	...	0·12	7·4	10·43	4·77	2·18	75·04	58·99	Beauleah ..	Rajshahye.	
...	...	...	...	...	...	...	...	...	...	...	0·07	5·3	10·00	4·26	3·20	66·08	61·87	Nattore.		
...	...	0·04	0·08	...	...	...	...	...	...	...	10	5·6	9·63	3·21	3·67	65·93	58·05	*Naogaon.*		
...	...	0·06	...	...	...	...	...	...	...	...	7	?	8·66	?	2·80	58·42	?	*Lalpore.*		
...	...	...	...	...	...	...	...	...	...	...	9	?	12·97	?	5·20	80·23	?	*Manda.*		
...	...	...	...	...	...	...	...	...	...	...	0·70	7								
...	...	...	...	...	...	...	...	...	...	...	8	6·5	6·87	4·23	2·95	66·86	53·29	Maldah ..	Maldah.	
...	...	...	...	...	...	...	...	...	...	...	5	5·0	8·33	3·02	6·25	62·80	58·35	Chanchal.		
...	...	...	...	...	...	...	...	...	...	...	6	?	6·52	?	2·83	78·05	?	*Gajol.*		
...	...	...	...	...	...	...	...	...	...	...	6	?	13·10	?	4·80	64·51	?	*Sibganj.*		
...	...	...	...	...	...	...	...	...	...	...	6	4·9	8·51	3·00	4·50	71·77	59·86	Mohadebpore..	Dinagepore.	
...	...	...	...	...	...	...	...	...	...	...	5	4·2	9·78	3·05	6·08	83·48	58·59	Churamon.		
...	...	...	...	...	...	...	...	...	...	...	3	4·8	13·77	3·56	7·52	95·08	62·09	Raigunge.		
...	...	...	...	...	...	...	...	...	...	...	6	5·5	14·78	4·72	10·70	94·01	74·22	Dinagepore.		
...	...	...	...	...	...	...	...	...	...	...	6	4·0	10·29	4·17	6·04	85·06	58·29	Baloorghat.		
...	...	...	...	...	...	...	...	...	...	...	5	?	17·31	?	12·30	116·36	?	*Thakurgaon.*		
...	...	...	...	...	...	...	...	...	...	...	8	5·0	20·20	4·83	13·30	135·26	68·54	Bhawaniganga (*Gyabanda*).	Rungpore.	
...	...	...	...	...	...	...	...	...	...	...	6	6·2	19·95	4·76	14·04	105·44	83·34	Rungpore.		
...	...	...	...	...	...	...	...	...	...	...	8	4·1	17·57	4·18	10·10	105·11	86·23	Kurigram.		
...	...	...	...	...	...	...	...	...	...	...	7	5·7	15·37	3·89	9·75	110·41	90·30	Baodgra. (*Nilphamari.*)		
...	...	...	...	...	...	...	...	...	...	...	5	?	17·78	?	12·26	110·94	?	*Ulipore.*		
...	...	...	...	...	...	...	...	...	...	...	8	8·0	18·29	5·25	6·26	160·80	128·10	Julpigoree ...	Julpigoree.	
...	...	...	...	...	...	...	...	...	...	...	6	?	14·27	?	5·81	199·88	?	*Alipore Doar.*		
...	...	...	...	...	...	...	...	...	...	...	6	?	16·59	?	5·20	156·98	?	*Falacotta.*		
...	...	...	...	...	...	...	...	...	...	...	6	?	13·22	?	6·45	121·94	?	*Debiganj.*		
...	...	...	...	...	...	...	0·06	0·19	...	...	13	?	15·49	?	4·50	193·30	?	*Bhogotpore (Nagrakatta.)*		
...	...	...	...	...	...	...	...	...	...	...	7	6·8	16·96	4·74	13·11	140·40	110·60	Dinhatta	Cooch Behar.	
...	...	...	...	...	...	...	...	...	...	...	8	5·5	12·49	5·21	5·81	192 85	129·35	Cooch Behar...		
...	...	...	...	...	...	...	...	...	...	...	8	5·4	13·01	4·21	5·54	153·64	117·61	Mickligunge.		
...	...	...	...	...	...	...	...	...	...	...	10	7·0	14·14	5·24	6·87	185·42	134·16	Matabhanga.		
...	...	...	...	...	...	...	0·29	0·01	0·69	...	15	10·3	20·68	9·96	6·00	229·64	212·20	Buxa ...	Darjeeling.	
...	...	...	...	...	...	...	...	...	...	...	19	5·9	13·36	5·47	5·43	186·27	119·17	Siliguri.		
...	...	...	...	...	...	...	...	...	...	...	9	7·6	10·62	6·10	6·87	137·66	120·15	Darjeeling.		
...	...	...	...	...	...	...	...	...	...	...	12	6·6	13·44	5·01	6·30	129·23	94·51	Kalimpong.		
...	...	...	...	...	...	...	...	...	...	...	9	?	13·01	?	5·60	200·46	?	Kurseong.		
...	...	...	...	...	...	...	...	...	...	...	6	4·2	13·32	3·13	9·75	130·61	74·53	Kissengunge ...	Purneah ...	NORTH BENGAL.
...	...	...	...	...	...	...	...	...	...	...	4	3·4	6·43	3·35	3·92	85·31	69·21	Arrareah.		
...	...	...	...	...	...	...	...	...	...	...	6	4·9	6·68	3·76	4·38	86·47	63·93	Purneah.		
...	...	...	...	...	...	...	...	...	...	...	5	?	5·04	?	3·30	?	?	*Gondwara.*		
...	...	...	...	...	...	...	...	...	...	...	6	?	12·75	?	5·30	169·39	?	*Balarampore*		
...	...	...	...	...	...	...	...	...	...	...	3	?	4·77	?	2·50	?	?	*Matiari.*		
...	...	...	...	...	...	...	...	...	...	...	6	?	7·40	?	4·00	139·36	?	*Kaligunj.*		
...	...	...	...	...	...	...	...	...	...	...	4	4·6	8·23	4·32	1·30	62·97	55·97	Maddapore ..	North Bhagulpore.	
...	...	...	...	...	...	...	...	...	...	...	5	3·7	1·50	2·73	0·89	65·10	50·45	Soopool.		
...	...	...	...	...	...	...	...	...	...	...	3	?	2·56	?	1·55	61·12	?	*Protabgunj.*		

Table of Rainfall recorded at Stations in

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
North Behar —concld.	Durbhunga ...	Tajpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·62	0·07	0·04	...	...	...	...
		Durbhunga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·85	0·24	0·13	0·18	0·03	...	...
		Madhubani ...	...	.	...	...	...	...	...	...	...	..	...	...	...	1·01	0·59	0·28	0·26	...	...	...
		Bahera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·62	...	0·23	...	...	...	...
		Rosbera ...	...	...	...	...	...	...	...	...	...	...								...	...	...
	Mozufferpore	Sitamarhi ...	...	...	0·07	...	...	...	...	...	...	...	...	...	...	0·53	1·03	0·87	0·11	...	...	...
		Mozufferpore	...	...	...	...	...	...	...	...	...	...	...	...	...	0·67	0·50	0·27	0·12	...	...	...
		Hajipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·32	0·19	0·46	...	0·23	...	...
		Paru ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·00	2·00	...	...	...	...
		Mahua ...	...	...	...	...	...	...	...	...	...	...	...	...	0·22	0·11	0·09	...	...	0·34	...	...
		Sinhar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·10	2·30	0·10	...	...	...
		Pupri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·37	0·30	0·17	...	...	...
	Chumparun ...	Motihari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·13	1·81	0·24	0·28	...	...
		Bettiah ...	..	...	0·26	...	...	...	...	...	...	...	...	...	...	0·12	1·27	3·16	0·17	0·05	...	...
		Bagaha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·00	0·04	0·28	...	...	...
		Burhurwa ...	...	0·08	...	...	...	...	...	...	...	...	...	...	...	...	1·19	0·72	0·11	0·03	...	...
	Sarun ...	Gopalgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·63	0·24	0·10	...	...	...	...
		Sewan ...	..	...	...	...	...	...	...	...	...	...	...	...	0·17	0·64	..	...	...	...	...	...
		Chupra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·85	0·10	...	...	...	...	...
South Behar	Shahabad ...	Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·34	1·44	...	...	...	0·23	...
		Dehree ...	...	0·03	...	...	...	...	...	...	...	...	...	...	...	0·09	0·26	...	...	...	...	...
		Bhubooah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·31	...	...	...	...	...	...
		Sasseram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·35	0·59	...	...	...	...	...
		Arrah ...	...	0·89	...	...	...	...	...	...	...	...	...	...	...	0·04	2·11	0·13	...	...	0·12	...
		Mohaniah ...	...	...	...	...	...	...	...	...	...	...								...	...	...
	Gya ...	Aurungabad...	...	...	...	...	...	...	...	...	...	...	...	0·07	...	...	0·44	...	...	...	...	...
		Gya ...	0·02	...	...	...	...	...	...	...	...	...	...	...	...	0·16	0·15	0·01	...	...	...	...
		Nowadah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·45	...	...	...	...	...	...
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·22	0·13	0·03	...	...	0·04	...
		Arwal ...	...	...	...	...	...	...	...	...	...	...								...	...	...
		Daudnagar ...	...	...	...	...	...	...	...	...	...	...								...	...	...
		Sheerghati ..	0·95	...	...	...	...	...	...	...	...	...	...	...	...	...	0·72	...	...	...	...	...
		Rajauli ...	0·26	...	...	...	...	...	...	...	...	...	...	...	...	0·34	0 20	...	...	...	...	...
		Pakri Barawan.	1·00	...	...	...	...	...	...	...	...	...	1·00	...	...	0·60	0 22	0·15	...	...	...	...
	Patna ...	Patna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·40	0·58	0·04	...	...	...
		Dinapore ...	...	0·07	...	...	...	...	...	0·20	...	...	...	...	...	0·25	1·35	0·10	...	...	...	...
		Behar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·47	0·17	0·47	...	...	...	...
		Barh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·00	0·10	0·05	0·10	...	...	...
		Bickram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·23	0 36	0·04	...	...	0·55	...
		Hilsa ...	...	...	...	...	...	...	...	...	...	...	...	...	0·13	0·13	0·31	0·48	...	...	...	...
	Monghyr ..	Begoosseral ...	...	...	...	...	...	...	...	...	...	...	0·45	...	...	1·50	0 27	0·04	..	...	...	...
		Monghyr ...	...	...	...	0·09	...	...	...	...	...	...	...	...	0·22	0 96	0·94	0·09	0·03	...	...	...
		Jamui ...	...	0·12	...	...	...	...	...	...	...	...	0·34	...	...	1·49	0·19	...	...	...	...	...
		Gogri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·80	2·54	...	...	...	...	...
		Sheikpura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·45	...	0·52	...	...	...	...
	South Bhagulpore,	Bhagulpore ...	...	...	...	...	...	...	...	...	...	...	...	...	0·40	1·28	3·03	0·64	0·06	...	...	...
		Banka ...	...	0·26	...	...	...	...	...	...	...	...	...	...	1·03	1 7o	0·54	0·03	0·02	...	...	...
		Kolgong ...	...	...	...	...	...	...	...	0·25	...	...	...	...	0·43	1·81	2·53	0·25	0·50	...	...	...
		Bongaon ...																		...	...	...
	Southal Pergunnahs.	Rajmehal ...	...	...	...	...	0·11	...	...	...	...	...	...	0·15	0·53	2·92	4·48	0·29	0 11	...	...	...
		Godda ...	...	0·30	...	...	...	...	...	0·95	...	...	0·03	...	1·40	2·25	0·68	0·10	0·05	...	...	...
		Pakour ...	...	...	0·16	...	0·02	...	0·01	0·03	...	...	0·13	0·06	1·88	4·44	3·56	2·73	0·14	...	0·14	...
		Nya Doomka ...	...	...	...	0·09	...	...	...	0·70	...	...	0·02	2·25	0 55	6·25	2 33	0·05	...	...	...	...
		Deoghur ...	...	0·34	...	...	...	...	...	...	...	...	0·12	1·24	0·38	1·05	1·09	0·01	...	...	...	...
		Jamtara ...	...	...	0·31	0·12	...	...	...	...	...	...	...	0·36	0·16	12·04	5·25	...	...	...	...	...
		Mohagama ...	...	...	...	...	...	...	...	...	...	...	...	...	1·12	1·15	0·56	0·15	...	...	...	...
		Nasihat ...	...	...	...	...	...	...	...	0·41	...	...	...	...	1·65	1·60	...	...	...	...	...	...
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	0·07	0·06	...	...	...	...	...	...	...	...	1·71	...	0·17	0·79	0·14	0·11	0·03	...	...	...
		Hazaribagh ...	0·47	...	...	...	...	...	...	...	...	...	0·05	...	0·48	0·25	0·11	...	0·02	...	...	...
		Semtagurah ...	0 10	...	...	...	...	...	...	...	...	...	...	0·10	0·30	0·20	...	...	...	...	...	...
		Mahudi Hills	0·87	...	...	...	...	...	...	...	...	...	...	...						...	...	...
		Jhoomrah Hills	...	...	...	...	...	...	...	...	...	...	...	0·60	1·10	0·20	...	...	...	...	...	...
		Barhi ...	...	0·10	...	...	...	...	...	...	...	...	0·04	0·09	...	2·03	0·72	0·02	...	...	...	...
		Chatra ...	1·10	...	0·02	...	...	...	...	...	...	0·15	...	...	...	0 37	0·35	...	...	...	...	...
		Karaglsha ...	0·34	2·59	...	...	...	...	...	...	...	...	1·03	0·04	0·53	1·21	0·15	...	...	...	...	...
		Ramghar ...	0·40	...	...	...	...	...	...	...	...	...	...	...	1·80	0·33	...	...	...	...	...	...
	Lohardugga...	Lohardugga ...	0·70	0·40	...	...	...	...	...	...	...	...	...	...	...	0·66	...	...	...	...	...	...
		Ranchi ...	0·84	..	...	...	...	...	...	...	...	...	0·11	0·57	0·48	0·46	0·08	...	...	...	...	...
		Palamow ...	0·43	...	0·07	...	...	...	...	...	...	...	...	...	...	...	0·09	...	...	...	...	...
		Silli ...	1·10	...	...	1·16	...	...	...	...	...	...	1·10	...	0·80	0·20	0·70	...	...	...	...	...
		Balumat ...	...	...	...	...	...	...	...	...	...	0·60	...	0·20	0·40	0·09	...	...	...	...	...	...
		Hossinabad...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garwah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Singbhoom ..	Chyebassa ...	0·56	...	...	...	...	...	...	...	...	0·23	...	...	0·40	0·60	0·09	...	...	...	...	...
		Chakradhar-pore.	...	...	...	...	...	...	...	...	...	...	...	0·15	0·25	1·20	...	...	...	...	...	...
		Ghatsila ...	...	...	1·35	...	...	...	...	...	...	...	0·20	1·50	1·35	0·35	...	...	...	...	...	...
		Baharagora...	0·23	...	...	...	...	...	...	...	...	...	...	...	0·75	0·45	...	...	...	...	...	...
	Manbhoom ...	Purulia ...	...	...	0·07	...	...	...	...	...	...	...	0·03	0·60	1·20	0·60	0·12	0·34	...	...	...	...
		Gobindpore ...	0·02	...	...	...	...	...	...	...	...	...	...	0·15	0·25	2·07	0·22	0·41	...	...	...	...
		Raghunath-pore.	...	...	...	...	...	...	...	...	...	...	...	...	2·72	0·62	...	...	...	...	...	...
		Barrabhoom...	...	...	...	...	...	...	...	...	...	0·20	...	0·12	0·20	0·40	0·20	...	...	...	...	...
		Jhalda ...	2·33	...	0·09	...	...	...	...	...	...	...	1·26	0·12	0·81	1·47	...	...	...	...	...	...
		Chas ...	0·12	...	...	0·06	...	...	...	...	...	...	...	1·09	0·20	3·50	0·22	...	...	...	...	...

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st October 1890.	Average rainfall from 1st January up to 31st October.	Station.	District.	Meteorological division.
...	.....	...	...	...	...	...	...	...	...	...	3	3·1	0·73	3·00	0·63	52 71	45·10	Tajpore ...	Durbhunga. ...	North Behar—*concld.*
...	.....	...	...	...	...	...	...	...	...	...	5	3·6	2·37	2·82	1·85	59·85	47·70	Durbhunga.		
...	.....	...	...	...	...	...	...	...	...	...	4	3·4	2·09	2·48	1·01	65·10	47·75	Madhubani.		
...	.....	...	...	...	...	...	...	...	...	...	3	?	1·84	?	1·62	53·35	?	*Bahera.*		
...	.....	...	...	...	...	...	...	...	...	...		?		?			?	*Roshera.*		
...	.....	...	...	...	...	...	...	...	...	...	5	3·3	2·61	2·65	1·03	54·90	45·43	Sitamarhi ...	Mozufferpore.	
...	.....	...	...	...	...	...	...	...	...	...	4	3·6	1·56	2·57	0·67	56·89	43·83	Mozufferpore.		
...	.....	...	...	...	...	...	...	...	...	...	4	4·4	1·19	3·76	0·46	50·00	43·06	Hajipore.		
...	.....	...	...	...	...	...	...	...	...	...	2	?	6·00	?	4·00	72·01	?	*Paru.*		
...	.....	...	...	...	...	...	...	...	...	...	4	?	0·76	?	0·34	46·49	?	*Mahua.*		
...	.....	...	...	...	...	...	...	...	...	...	3	?	4·50	?	2·30	55·38	?	*Siuhar.*		
...	.....	...	...	...	...	...	...	...	...	...	3	?	1·84	?	1·37	52·02	?	*Pupri.*		
...	.....	...	...	...	...	...	...	...	...	...	4	2·9	6·46	3·56	4·13	73·39	48·03	Motihari ...	Chumparun.	
...	.....	...	...	...	...	...	...	...	...	...	5	2·8	4·89	3·38	3·16	65·82	51·03	Bettiah.		
...	.....	...	...	...	...	...	...	...	...	...	4	?	3·39	?	3·00		?	*Bagaha.*		
...	.....	...	...	...	...	...	...	...	...	...	5	?	2·13	?	1·10	60·05	?	*Burhurwa.*		
...	.....	...	...	...	...	...	...	...	...	...	3	3·0	1·67	4·37	0·94	53·06	46·13	Gopalgungo...	Sarun.	
...	.....	...	...	...	...	...	...	...	...	...	2	3·8	0·81	3·81	0·64	60·27	45·40	Sewan.		
...	.....	...	...	...	...	...	...	...	...	...	2	3·8	1·95	2·93	1·85	49·35	39·85	Chuprah.		
...	.....	...	...	...	...	...	...	...	...	...	3	4·0	1·80	3·20	1·24	53 22	39·05	Buxar ...	Shahabad ...	South Behar.
...	.....	...	...	...	...	...	...	...	...	...	3	3·0	0·38	2·58	0·26	43·54	41·42	Dehree.		
...	.....	...	...	...	...	...	...	...	...	...	1	2·5	0·31	3·11	0·31	41·56	42·29	Bhubooah.		
...	.....	...	...	...	...	...	...	...	...	...	2	3·4	0·94	3·48	0·59	45·33	41·83	Sasseram.		
...	.....	...	...	...	...	...	...	...	...	...	5	4·7	3·29	2·94	2·11	67·19	44·60	Arrah.		
...	.....	...	...	...	...	...	...	...	...	...		?		?			?	*Mohaniah.*		
...	.....	...	...	...	...	...	...	...	...	...	2	3·2	0·51	2·64	0·44	59·85	43·56	Aurungabad...	Gya.	
...	.....	...	...	...	...	...	...	...	...	...	4	4·2	0·34	2·34	0·16	61·28	41·26	Gya.		
...	.....	...	...	...	...	...	...	...	...	...	1	3·9	0·43	2·50	0·43	55·12	41·89	Nowadah.		
...	.....	...	...	...	...	...	...	...	...	...	4	3·9	0·42	3·33	0·22	53 81	41·46	Jehanabad.		
...	.....	...	...	...	...	...	...	...	...	...		?		?			?	*Arwal.*		
...	.....	...	...	...	...	...	...	...	...	...		?		?			?	*Daudnagar.*		
...	.....	...	...	...	...	...	...	...	...	...		?		?			?	*Sheerghati.*		
...	.....	...	...	...	...	...	...	...	...	...	2	?	1·67	?	0·95	36·81	?	*Rajauli.*		
...	.....	...	...	...	...	...	...	...	...	...	3	?	0·80	?	0·34	45 62	?	*Pakri Barawan.*		
...	.....	...	...	...	...	...	...	...	...	...	5	?	2·97	?	1·00	44·24	?			
...	.....	...	...	...	...	...	...	...	...	...	3	4·5	1·02	2·81	0·58	52·05	41·51	Patna ...	Patna.	
...	.....	...	...	...	...	...	...	...	...	...	5	3·7	1·97	3·00	1·35	53·60	42·18	Dinapore.		
...	.....	...	...	...	...	...	...	...	...	...	3	4·6	1·11	3·06	0·47	47·26	43·89	Behar.		
...	.....	...	...	...	...	...	...	...	...	...	4	3·6	1·25	3·03	1·00	44·68	42·00	Barrh.		
...	.....	...	...	...	...	...	...	...	...	...	4	?	1·38	?	0·56	59·30		*Bickram.*		
...	.....	...	...	...	...	...	...	...	...	...	4	?	1·07	?	0·48	50·67	?	*Hilsa.*		
...	.....	...	...	...	...	...	...	...	...	...	4	4·2	2·26	3·00	1·50	46·02	42·06	Begooserai ...	Monghyr.	
...	.....	...	...	...	...	...	...	...	...	...	6	4·7	2·36	3·81	0·98	56·53	45·37	Monghyr.		
...	.....	...	...	...	...	...	...	...	...	...	4	3·8	2·14	2·53	1·49	60·32	44·98	Jamul.		
...	.....	...	...	...	...	...	...	...	...	...	2	?	4·34	?	2·54	78·89	?	*Gogri.*		
...	.....	...	...	...	...	...	...	...	...	...	2	?	1·97	?	1·45	47·76	?	*Sheikpura.*		
...	.....	...	...	...	...	...	...	...	...	...	5	4·4	5·41	3·93	3·03	62·97	47·30	Bhagulpore ...	South Bhagulpore.	
...	.....	...	...	...	...	...	...	...	...	...	6	4·4	3·63	3·43	1·75	45·78	45·49	Banka.		
...	.....	...	...	...	...	...	...	...	...	...	6	?	5·77	?	2·53	63·96	?	*Kolgong.*		
...	.....	...	...	...	...	...	...	...	...	...		?		?			?	*Bongaon.*		
...	.....	...	...	...	...	...	...	...	...	...	7	4·6	3·50	3·03	4·48	58·76	55·40	Rajmehal ...	Sonthal Pergunnahs.	
...	.....	...	...	...	...	...	...	...	...	...	8	4·2	5·66	2·94	2·25	53·08	47·66	Godda.		
...	.....	...	...	...	...	...	...	...	...	...	13	6·1	12·19	4·45	4·44	78·27	62·05	Pakour.		
...	.....	0·09	...	...	...	...	...	...	...	...	9	6·7	12·35	3·88	6·25	75·85	57·13	Nya Doomka.		
...	.....	...	...	...	...	...	...	...	...	0·11	7	5·6	4·18	4·36	1·24	50·25	5·358	Deoghur.		
...	.....	...	...	...	...	...	...	...	...	...	6	4·7	18·25	3·03	12·04	75·85	51·26	Jamtara.		
...	.....	...	...	...	...	...	...	...	...	...	4	?	3·28	?	1·15	50·30	?	*Mohagama.*		
...	.....	...	...	...	...	...	...	...	...	...	3	?	3·66	?	1·65	32·74	?	*Nanihat.*		
...	.....	...	...	...	...	...	...	...	...	...	8	5·7	3·08	3·21	1·71	55·84	50·56	Pachamba ... (*Giridi*).	Hazaribagh ...	Chutia Nagpur.
...	.....	...	...	...	...	...	...	...	...	...	6	6·2	1·33	3·29	0·47	50·56	49·25	Hazaribagh.		
...	.....	...	...	...	...	...	...	...	...	...	4	5·3	0·70	2·81	0·30	40·24	48·61	Semtagurah.		
...	.....	...	...	...	...	...	...	...	...	...		4·1						Mahudi Hills.		
...	.....	...	...	...	...	...	...	...	...	...	3	4·7	1·90	2·83	1·10	57·60	61·31	Jhoomrah Hills		
...	.....	...	...	...	...	...	...	...	...	...	6	?	3·00	?	2·03	51·14	?	*Barhi.*		
...	.....	...	...	...	...	...	...	...	...	...	5	?	2·05	?	1·10	49·03	?	*Chatra.*		
...	.....	...	...	...	...	...	...	...	...	...	7	?	5·89	?	2·59	58·04	?	*Karagdeha.*		
...	.....	...	...	...	...	...	...	...	...	...	8	?	2·53	?	1·80	51·49	?	*Ramghar.*		
...	.....	...	...	...	...	...	...	...	...	...	3	6·8	1·76	2·28	0·70	55·23	51·69	Lohardugga ...	Lohardugga.	
...	.....	...	...	...	...	...	...	...	...	...	6	5·6	2·54	3·05	0·84	47·09	49·66	Ranchi.		
...	.....	...	...	...	...	...	...	...	...	...	3	4·1	0·59	2·66	0·43	45·32	45·02	Palamow.		
...	.....	...	...	...	...	...	...	...	...	...	6	?	5·40	?	1·10	43·90	?	*Silli.*		
...	.....	...	...	...	...	...	...	...	...	...	4	?	1·99	?	0·60	?	?	*Balumat.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	42·14	?	*Hossinabad.*		
...	.....	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	38·96	?	*Garwah.*		
...	.....	...	...	...	...	...	...	...	...	...	5	6·6	1·73	2·94	0·56	36·22	54·39	Chyebassa ...	Singbhoom.	
...	.....	...	...	...	...	...	...	...	...	...	3	?	1·70	?	1·30	?	?	*Chakradharpore.*		
...	.....	...	...	...	...	...	...	...	...	...	5	?	5·25	?	1·85	56·50	?	*Ghatsila.*		
...	.....	...	...	...	...	...	...	...	...	...	3	?	1·43	?	0·75	55·99	?	*Baharagura.*		
...	.....	...	...	...	...	...	...	...	...	...	7	6·4	3·03	3·60	1·20	46·67	50·39	Purulia ...	Manbhoom.	
...	.....	...	...	...	...	...	...	...	...	...	6	5·5	3·57	4·00	2·67	39·67	47·04	Gobindpore.		
...	.....	...	...	...	...	...	...	...	...	...	2	?	3·34	?	2·72	62·52	?	*Raghunathpore.*		
...	.....	...	...	...	...	...	...	...	...	...	5	?	1·90	?	0·80	45·65	?	*Barrabhoom.*		
...	.....	...	...	...	...	...	...	...	...	...	6	?	3·51	?	2·33	65·79	?	*Jhalda.*		
...	.....	...	...	...	...	...	...	...	...	...	6	?	5·32	?	3·50	61·93	?	*Chas.*		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF OCTOBER 1890.

Meteorology of the month.—Up to the end of September weather conditions were still being controlled by the depression which had formed in the Bay off the Circars, and after moving into Central India had changed its direction and moved to the north-east over Bengal. The general rainfall practically ceased at the end of that month, and as the pressure distribution had became very uniform and tended to become relatively high at Bengal stations as compared with that at those on the coast, the monsoon current became very weak, and rainfall was almost entirely absent during the first ten days of October. After the sky cleared temperature increased rapidly, and dry westerly winds blew over the whole province as far as the borders of Assam on the 1st and 2nd. As easterly winds continued down the Assam valley the interaction seems to have been the cause of unsettled conditions, which first became apparent on the 3rd in the east of North Bengal and on the following day spread over almost the whole of Bengal. Thunderstorms with local falls of rain and a general fall of temperature occurred in North Bengal on the 2nd and 3rd, and in all districts except Chutia Nagpur and Behar on the 4th, while with the advance of the unsettled conditions winds changed from westerly to south-east and temperature underwent considerable variations. On the 5th the difference of pressure in the northern districts of Bengal from that in the south of the Bay was only a tenth of an inch, and as it began to increase in the east of Assam, the rise gradually extending in a south-westerly direction, the distribution underwent a change which by the 8th gave highest pressure in Bengal and lowest in the south of the Bay. These altered conditions were accompanied by fine weather with falling temperature and light northerly winds, but for a few days only, as a low-pressure area formed in the south of the Bay and advanced in a northerly direction so as to pass over the western districts of Bengal.

Cyclonic storm from the 8th to the 16th.—The low-pressure area was faintly noticeable on the 8th, in the relatively low pressure at Madras and Nellore and the indraught across the coast at the southern stations. The depression probably covered the greater part of the southern half of the Bay as the wind velocity at Diamond Island had increased from 4 to 12 miles an hour, and the direction being south-easterly, evidently belonged to a cyclonic circulation. There was very little change till the 11th, the depression deepening slowly, but apparently remaining diffused, while rainfall was very light along the west coast. On the 11th moderately heavy rain fell at all stations in the Circars and Orissa, pressure changed much more rapidly, specially at Cocanada and Vizagapatam, and squally weather became general along the west coast. The centre of the depression was to the east of Cocanada, moving in a north or north-westerly direction. On the 12th rainfall had increased varying from 2 to 4 inches in the Circars and Orissa, and it had extended to some of the inland stations of Western Bengal. The centre was then close to the coast between Vizagapatam and Gopalpur, but as it was moving almost due north, it did not cross the coast till the following morning. Gopalpur alone reported lower pressure (by ·037 inch), and as changes were elsewhere small, there was every appearance of the depression beginning to fill up. Wind velocity also favoured this conclusion, as the highest recorded during the storm was 31 miles an hour at Pooree on the 11th. It fell to 23 on the 12th and 14 on the 13th, after which there was a slight increase. The area of heavy rainfall kept steadily ahead of the centre of the disturbance, and on the 13th when it was near Gopalpur the heaviest fall in the Circars was ·85 inch, but in Orissa, False Point, and Pooree received between 4 and 5 inches, and moderate amounts were falling in South-West and East Bengal. On the 14th the area of lowest pressure covered the northern half of Orissa and the adjacent parts of South-West Bengal and Chutia Nagpur, the lowest reading being 29 657 inches at Burdwan. Squally weather with very heavy rain prevailed in Lower Bengal, and also on the following day, though the depression was filling up As the centre moved northwards, pressure continued rising with great rapidity, and unusually heavy rain fell in North Bengal on the 15th and 16th. After this pressure was above 30 inches except in Lower Bengal, and readings about a twentieth of an inch above the normal. Showers continued to fall, but weather was rapidly clearing.

It may be noted that the rainfall accompanying this storm, especially during the earlier part of its existence, was almost entirely in front of the area of lowest pressure.

Fine weather prevailed till the 20th, when the second depression of the month began to appear to the east of the centre of the Bay. A south-easterly wind was blowing at Diamond Island, and velocity for the previous day was 14 miles an hour, while at 8 a.m. it was 24 miles. These strong winds continued on the 21st, when the depression had moved to the north and was covering the northern half of the Bay. Meanwhile fine clear weather with a few local showers was general in Bengal, and northerly winds were blowing in Arakan, Bengal, and Orissa.

The storm proved to be of very local influence, and as it moved over the Sunderbuns and East Bengal, gave squally weather and moderate rain only in the near neighbourhood of its centre. On the 23rd the centre was near Furreedpore which received three inches, while the falls at Jessore and Dacca were about 2 inches. On the 24th it was diffused and shallow, but the wind circulation was cyclonic round a centre between Dacca and Serajgunge. On the 25th normal weather prevailed with northerly or north-westerly winds

at all stations, and rapidly falling temperature. Till the end of the month similar weather continued with high pressure in the north and lowest in the extreme south of the Bay where conditions were unsettled.

Pressure.—At the beginning of the month the distribution was very uniform and above the normal by amounts varying from ·08 inch in the west of the province to rather less than ·05 inch at eastern stations. Up till the 5th there was a steady fall, then a moderate rise for two days, after which readings were very nearly normal. Considerable changes occurred during the existence of the storm, that is, from the 10th to the 16th; the rise being very rapid on the 15th and 16th, more especially in the western half of the province. On the 16th readings were over 30 inches at Sibsagar and Motihary, and on the 17th over almost the whole province, the exceptions being in South-West and East Bengal. During the latter half of the month changes were generally small. While the small depression was moving over East Bengal, the largest fall was about a tenth of an inch, and this was followed by a brisk rise. The means for the month rarely differ from the normal by more than a few thousandths of an inch.

Temperature—Has frequently been below the normal, and means are largely in defect—for Chutia Nagpur by 1·6°, North Bengal 1·4°, South-West Bengal and South Behar 1°, Assam ·9°, Orissa and East Bengal ·5°, and North Behar ·3°. There was excess of between 1° and 3° at the beginning of the month, and the general tendency up to the 10th was to keep slightly above the normal. While the heavy rain was falling, day temperatures were very low, and means for the period between the 10th and 17th were below the normal by amounts ranging up to 3·8° in North Bengal. From the 17th till the end of the month comparatively cool weather prevailed, defect averaging more than 1° in all districts except Orissa, where there was excess of about 1° during the last few days.

Rainfall.—Showers fell on the 4th and 5th, and again on the 23rd and 24th, but almost the whole rainfall of the month was received between the 9th and 17th. During these days, however, the falls were unusually heavy, first in Orissa and afterwards in South-West, East and North Bengal, so that the mean falls for the large divisions are all above the normal except that for Chutia Nagpur, which is deficient by nearly one inch. The mean fall for North Bengal is 12·3 inches, or 8 inches in excess; for Orissa 9 inches, or 2·84 inches in excess; and for South-West Bengal 8·07 inches, or 3·74 inches in excess. The falls for the other divisions are East Bengal 6·92, South Behar 3·78, North Behar 3·59, and Chutia Nagpur 2·07 inches.

The following table gives a comparison between the actual monthly and total rainfall and the normal rainfall of the province up to the end of October in the same form as has been employed in the previous monthly abstracts of the present year. The figures represent the ratio of the rainfall of each month of the present year to the normal rainfall expressed as a percentage. The table thus gives a condensed summary of the rainfall data of the year for each meteorological division. The first ten columns give the percentage amount of rainfall received in each month, and the last column the percentage rainfall of the whole period from the 1st of January to the end of October. It will be seen that there is excess of 34 per cent. in North Bengal, 28 in North Behar, and 23 in South Behar, while Chutia Nagpur and East Bengal have received less than the normal:—

Meteorological Divisions.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	Actual rainfall of first ten months of 1890 expressed as a percentage of the normal fall for the period.
Orissa ...	24	5	216	20	99	124	97	80	168	146	115
South-West Bengal	98	Nil	39	75	87	141	102	69	104	186	102
East Bengal ...	184	4	70	122	102	89	120	88	60	128	95
North Bengal ...	98	Nil	26	155	81	132	129	132	143	281	134
North Behar ...	38	2	25	40	95	140	174	134	97	101	128
South Behar ...	Nil	5	63	80	95	183	186	125	82	115	123
Chutia Nagpur ...	Nil	Nil	120	1	65	132	116	75	81	70	92

The area of deficient rainfall lies almost entirely in the west of the province, including the whole of Chutia Nagpur and of Behar with the exception of Purneah and the Sonthal Pergunnahs. The difference from the normal in the former is about half an inch in all districts except Hazaribagh and Lohardagga, where, as in Behar, defect amounts are generally over 2 inches. The largest defect is in Chittagong, being 4·5 at Cox's Bazar, 3·25 at Rangamati, and 2·4 inches at Ruma. Parts of Burdwan, Hooghly, and Dacca received deficient rainfall by about 1 inch. Very heavy falls were registered in the south of the Sonthal Pergunnahs, excess at Jamtara being 15·22, at Nya Doomka 8·47, and at Pakour 7·74 inches; but in Purneah and Chumparun excess was only 2 or 3 inches except at Kissengunge, where it was over 10 inches. In South-West and East Bengal excess was very irregular and ranged up to 12·7 inches at Saugor Island, but as a rule it was between 2 and 3 inches. In the north of East Bengal and in North Bengal it ranged from 5 to 15 inches, and in the latter was at many places between 8 and 10 inches. Actual falls were

under 2 inches in Chutia Nagpur except Manbhoom, and in the western half of South Behar: between 2 and 5 inches in the western half of the province except Orissa and parts of South-West Bengal: and between 5 and 10 inches in Orissa, the greater part of South-West Bengal and East Bengal, except the Sunderbuns and a narrow strip along the Bengal and Orissa coasts, where they were over 10 inches, and at Contai and Saugor Island over 20 inches. At many stations in the Sonthal Pergunnahs falls were over 10 inches, and in North Bengal between 10 and 20 inches.

The following table gives full data for the comparison of the actual and normal rainfall of the month of October in all districts of the province. The figures are obtained in the manner explained in previous monthly summaries. The first column gives the average district rainfall as determined from the rainfall observations of the past 15 years. The second column gives the actual district rainfall as determined from the actual weighted rainfall of the month at the reporting stations in the district. The third column expresses the ratio of the actual district rainfall to the normal as a percentage, and the fourth the same information in a slightly different form:—

Percentage Table for October 1890.

Division.	District.	Normal district rainfall for October.	Actual district rainfall for October 1890.	Percentage of actual to normal rainfall.	Percentage excess (+), defect (−).
Orissa ...	Pooree	7·42	10·84	146	+ 46
	Cuttack	5·69	7·45	131	+ 31
	Balasore	5·36	9·54	176	+ 76
South-West Bengal	Midnapore	5·26	7·85	149	+ 49
	24-Pergunnahs	4·46	10·83	243	+143
	Howrah	3·65	5·99	164	+ 64
	Hooghly	4·07	5·70	140	+ 40
	Burdwan	4·16	4·27	103	+ 3
	Bankoora	3·77	5·04	134	+ 34
	Beerbhoom	3·41	8·37	245	+145
	Nuddea	4·17	8·87	213	+113
	Khoolna	4·52	7·13	158	+ 58
	Jessore	4·45	8·61	193	+ 93
	Moorshedabad	4·37	7·18	164	+ 64
East Bengal ...	Chittagong	6·60	4·05	61	— 39
	Backergunge	5·62	7·46	133	+ 33
	Noakholly	7·37	9·57	130	+ 30
	Furreedpore	4·24	7·78	183	+ 83
	Dacca	4·61	5·35	116	+ 16
	Tipperah	5·26	6·62	126	+ 26
	Mymensingh	5·32	9·35	176	+ 76
North Bengal ...	Pubna	4·43	5·63	127	+ 27
	Bogra	4·34	11·60	267	+167
	Rajshahye	4·53	10·23	226	+126
	Maldah	3·62	7·60	210	+110
	Dinagepore	3·44	11·45	333	+233
	Rungpore	4·46	14·66	329	+229
	Cooch Behar	4·99	14·37	288	+188
	Julpigoree	5·25	18·29	348	+248
	Darjeeling	6·10	10·62	174	+ 74
North Behar ...	Purneah	3·43	8·94	261	+161
	North Bhagulpore	3·36	2·19	65	— 35
	Durbhunga	2·72	1·87	69	— 31
	Mozufferpore	3·03	1·81	60	— 40
	Chumparun	3·46	5·56	161	+ 61
	Sarun	3·74	1·50	40	— 60
South Behar ...	Shahabad	3·19	1·39	44	— 56
	Gya	2·58	0·42	16	— 84
	Patna	2·97	1·18	40	— 60
	Monghyr	3·13	2·25	72	— 28
	South Bhagulpore	3·64	4·39	121	+ 21
	Sonthal Pergunnahs	3·62	10·02	277	+177
Chutia Nagpur ...	Hazaribagh	3·26	1·61	49	— 51
	Lohardugga	2·47	1·35	55	— 45
	Singbhoom	2·94	1·73	59	— 41
	Manbhoom	3·68	3·14	85	— 15

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of October 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.							
			Averages for month.				Of month.			Rainy days.			Since 15th May 1890.	
	Highest observed during month.	Lowest observed during month.	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of month above or below normal mean of month.	Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	93·9	68·9	87·2	75·1	81·2	—0·5	9·00	6·16	+2·84	8·5	8·1	+0·4	61·77	51·24
South-West Bengal	93·3	62·1	86·4	73·7	80·1	—1·0	8·07	4·33	+3·74	8·4	6·6	+1·8	56·66	51·00
East Bengal	92·1	65·8	85·9	74·1	80·0	—0·5	6·92	5·43	+1·49	9·7	7·7	+2·0	71·25	72·59
North Bengal	90·9	62 1	84·9	71·8	78·4	—1·4	12·30	4·38	+7·32	7·4	5·6	+1·8	94 87	88·07
North Behar	92·8	58·9	83·6	71·4	78·5	—0·3	3·59	3·54	+0·05	4·1	3·7	+0·4	64·38	47·90
South Behar	91·9	57 8	85·9	70·6	78·3	—1·0	3·78	3·30	+0·48	4·8	4·3	+0·5	54·57	42·97
Chotia Nagpur	86·5*	55·9*	81·4*	64·8*	73·1*	—1·6*	2·07	2·97	—0·90	5·0	5·6	—0·6	45·98	47·94
Assam	94·5	61·9	85·1	71·7	78·4	—0·9								

* Chyebassa not included.

Meteorological Office, Bengal ;
The 11th November 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal for the week ending Friday, the 7ht of November 1890.

Meteorological Division	District.	Representative station.	Station Observations: Air pressure: Mean barometric height, 8 A.M.	Air pressure: Mean reduced to sea-level.	Air pressure: Variation from mean.	Wind: Prevailing direction.	Wind: Mean wind velocity.	Temperature: Highest during week.	Temperature: Date.	Temperature: Lowest during week.	Temperature: Date.	Temperature: Mean maximum temperature.	Temperature: Mean minimum temperature of week.	Temperature: Mean daily temperature of week.	Temperature: Variation from normal mean of week.	Temperature: Mean, 8 A.M., temperature.	District Observations: Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Rainfall: Since 1st of month: Mean for district.	Rainfall: Since 1st of month: Normal mean.	Rainfall: Since 1st of month: Variation.	Rainfall: Since 15th May 1890: Mean for district.	Rainfall: Since 15th May 1890: Normal mean.	Rainfall: Since 15th May 1890: Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
Orissa.	Pooree	Pooree	29·965	29·977	—	NE	178	83·7	5th Nov.	73·1	3, 5 & 6 Nov.	81·3	73·7	77·5	—	78·0	91	8·4	1·81			1·34						1·0	Pooree	Pooree	Orissa.
		Gopalpore	29·963	29·985	+·031	N	254	80·2	2nd ,,	71·8	2 & 5 ,,	81·5	72·5	76·9	0	77·1	90	6·1	3·34										Gopalpore		
		False Point	29·939	29 981	+·012	North-Easterly	158	83 9	4th ,,	70·1	6th ,,	81·8	73·2	77·0	—0·2	77·9	86	6·4	3 69										False Point		
	Cuttack	Cuttack	29·917	30 000	+·032	NE	57	85 3	5 to 7 ,,	69·8	6th ,,	81·6	73·5	78·6	+0·2	76·1	77	5·6	1·47	1·86	0·51	1·46	0·51	+1·35	63·33	50·31	+13·32	1·6	0·5	Cuttack	Cuttack	
	Balasore	Balasore	29·950	30 011	+·035	N.W. & Calm	67	84·4	6th ,,	66·8	5 to 7 ,,	81·9	69·1	75·5	—0·1	72 2	90	2·6	5·18	● 73	0·54	0·73	0·54	+0·19	61·12	52·28	+8 84	1·3	0·5	Balasore	Balasore	
South-West Bengal.	South-West Midnapore / South 24-Parganas	Sangor Island	29·977	30 004	+·031	North-Easterly	192	84·7	6th ,,	68·4	5th ,,	82·8	70 4	76·6	+0·1	74·3	90	7·1	1·44	0·64	0·49	0·64	0·49	+0·15	66·29	61·49	+ 4·80	2 0	0·5	Sangor Island	South-West Midnapore / South 24-Parganas	South-West Bengal.
	Midnapore	Midnapore	29·859	30 012	+·027	NE	153	86·3	5 & 6 ,,	66 2	5th ,,	85·1	68 9	77·1	+1·8	74·0	83	3·4	Nil	Nil	Nil	Nil	0·16	—0·16	50·03	51 77	—0·77	0·0	0·4	Midnapore	Midnapore	
	24-Parganahs / Howrah / Hooghly	Calcutta	29 991	30 013	+·037	North-Easterly	38	83 5	1st ,,	65 8	5th ,,	82·4	68 1	75·3	—1·1	74·2	81	5·1	0·01	0·07	0 25	0·07	0·25	—0·18	55·16	50·81	+4·35	0·3	0·4	Calcutta	24-Parganahs... / Howrah / Hooghly	
	Burdwan	Burdwan	29·932	30·035	+·047	Calm	33	85 3	1st ,,	67·4	5th ,,	84·2	69 1	76 6	—0·1	72·8	82	5·1	0·56	0·21	0·29	0·25	0 29	—0·04	61·41	46 11	+15·30	0·7	0·4	Burdwan	Burdwan	
	Bankoora	Bankoora	29·893	30·000	+ 031	Calm	32	86·2	6th ,,	66·7	5th ,,	84·2	68 7	76·5	+ 0·6	72 5	81	6·3	Nil	0·01	0·23	0 01	0·23	—0·22	52·02	51·70	+0·31	0·2	0·3	Bankoora	Bankoora	
	Beerbhoom / West Burdwan	Ranegunge	29·6849	30 0249	+·0425	NE	34	83·1	6th ,,	67·4	7th ,,	82·8	68·8	75·8	+0·3	73·1	82	4·0	0·10	0·35	0·09	0·35	0·09	+0·26	63·03	51·51	+12·52	1·3	0·3	Ranegunge	Beerbhoom / West Burdwan	
	Moorshedabad	Berhampore	29·959	30 019	+ 031	NE	40	83·1	6th ,,	62·7	6th ,,	82·0	65 9	74·0	—2·4	73 5	83	2·4	0·05	0·33	0·11	0·33	0·11	+0·19	69·55	49·80	+10·75	0·7	0 2	Berhampore	Moorshedabad	
	Nuddea	Krishnaghur	29·969	30·019	+·018	ENE	68	85·6	1st ,,	63·6	7th ,,	84·5	66 2	75·4	—0·4	73·7	82	4·4	0·19	0·04	0·20	0·04	0·21	—0·22	55 03	48·54	+6·47	0·2	0 4	Krishnaghur	Nuddea	
	Jessore / Khoolna	Jessore	29 981	30 0 6	+ 044	Calm	31	84·7	1 & 6 ,,	68 5	5 & 7 ,,	84·0	70·0	77·0	—1·4	73 7	86	5·4	Nil	0·06	0·27	0·06	0·27	—0·21	53 54	53·49	+1·04	0·1	0·4	Jessore	Jessore / Khoolna	
East Bengal.	Chittagong	Chittagong	29·9199	30·0119	+ 0402	Variable	20	86·2	3rd ,,	66·8	7th ,,	83·5	70·4	77 0	—0·3	73 6	89	5 9	1·41	1·37	1 25	1·37	1·25	+ 0·12	119·01	111·65	+7 41	3·0	0·8	Chittagong	Chittagong	East Bengal.
	Chittagong Hill Tracts	Domagiri	Observations not received.																	0·42	1·35	0·42	1·35	—0·93	78·32	79·12	—0·80	1·0	1·2	Domagiri	Chittagong Hill Tracts	
	Backergunge	Barrisal	29 987	29·999	+·032	NE	63	83·8	4 & 5 Nov.	66·0	6th ,,	82·4	69·6	76·0	—0·2	75·9	82	4·6	Nil	Nil	Nil	1 05	Nil	—1·05	64·16	75·40	—7·24	0·6	0 8	Barrisal	Backergunge	
	Noakholly	Noakholly	29·964	30·009	+·053	NE	77	83·5	4 & 5 ,,	62·5	7th ,,	84·0	67 0	75·0	—1·1	74·1	79	0·3	Nil	Nil	Nil	1 53	Nil	—1·53	97·83	104 63	—6·81	0 0	1·0	Noakholly	Noakholly	
	Furreedpore	Furreedpore	29 991	30·032	+ 070	NE & N	45	83 0	4st ,,	65·0	7th ,,	81·6	68 5	75 0	—0·4	75·7	76	2·9	Nil	Nil	Nil	0·37	Nil	—0 37	45·42	54 71	—9 29	0·0	0·3	Furreedpore	Furreedpore	
	Dacca	Dacca	29 979	30·002	+ 033	North-Easterly	80	85·1	1st ,,	63 8	7th ,,	83·7	66·9	75·3	—2·5	72·6	80	2 9	Nil	Nil	Nil	0·41	Nil	—0·41	58 19	59·48	—1·29	0·0	0·6	Dacca	Dacca	
	Commillah	Commillah	29·0·5	30 012	+ 057	N	142	84·4	1st ,,	61·0	8th ,,	83·5	65 5	74·5	—2·3	73 2	80	2 7	Nil	Nil	Nil	0 50	Nil	—0·50	60·11	67 45	—7·34	0·0	0·6	Commillah	Tipperah	
	Mymensingh	Mymensingh	29·950	30 016	+ 054	Northerly	54	82·7	1st ,,	61 5	7th ,,	81·2	6 8	72 5	—2 7	69 3	84	3·6	0·07	0·17	0·18	0·17	0·18	—0·01	75·95	68 28	+7·37	0·4	0·3	Mymensingh	Mymensingh	
North Bengal.	Bogra	Bogra	29·942	30·007	+ 068	NE	37	83 3	1st ,,	67·1	1st ,,	81·3	64·7	73·0	—1·1	71·7	80	1·4	0·65	0·41	0·15	0·41	0·15	+0·26	78 99	56·71	+22·28	1·0	0 3	Bogra	Bogra	North Bengal.
	Pubna	Serajgunge	29·975	30·023	+ 040	N	25	84 0	1st ,,	69 9	7th ,,	81·5	66·0	73·1	—1 5	70 9	82	2·4	1·15	0·57	0 22	0·57	0·22	+0·35	54·95	52·75	+2·10	1 0	0·4	Serajgunge	Pubna	
	Rajshahye	Rampore Boalleah	29 942	30·014	+ 045	NE	28	82 6	6th ,,	66 2	7th ,,	81·0	65·0	73 1	+2·2	74·5	78	2 0	1·19	0·93	0 08	0·93	0 08	+0·85	75·86	52·70	+13·16	1·0	0·2	Rampore Boalleah	Rajshahye	
	Maldah	Maldah	29·916	30·0 0	+ 109	NE	61	82·7	1st ,,	62·2	7th ,,	82 7	66 8	74·8	+1 0	73·9	77	0·0	0·03	0·02	0 11	0·02	0·11	—0·09	62·14	53·51	+8·63	0·5	0·3	Maldah	Maldah	
	Dinagepore	Dinagepore	29 911	30·0·7	+ 042	NW	31	85·0	2nd ,,	59 7	7th ,,	83 1	64 0	73·6	+0·5	69·5	83	1·3	Nil	Nil	0 03	Nil	0·03	—0·03	81·74	56·18	+25·56	0 0	0·1	Dinagepore	Dinagepore	
	Rungpore	Rungpore	29·903	30·032	+ 03.	ENE	80	84 2	1st ,,	59·7	6 & 7 ,,	82 3	62 4	72·4	—0·8	70 1	86	0 0	Nil	Nil	Nil	Nil	Nil	Nil	106·61	73·09	+33·52	0·0	0·0	Rungpore	Rungpore	
	Julpigoree / Cooch Behar	Julpigoree	29·737	30·037	+ 040	?	138	84·3	1st ,,	57 3	6th ,,	81·6	60·1	70·4	—2·5	67·6	84	0·0	Nil	Nil	Nil	Nil	Nil	Nil	154·51	109·53	+44·98	0·0	0·0	Julpigoree	Julpigoree / Cooch Behar	
	Darjeeling Hill Tracts	Darjeeling	23·024	—	—·533	Variable	84	55·3	7th ,,	39·5	3rd ,,	55·6	40·9	47·2	—2·9	47·9	82	2·4	Nil	Nil	Nil	0·04	Nil	—0·04	165·58	119·61	+45·97	0·0	0·1	Darjeeling	Darjeeling Hill Tracts	
	Purneah / North Bhaugulpore	Purneah	29 900	30·031	+ 036	Calm	34	83·2	1st ,,	59 5	6th ,,	81·4	62·7	72·1	—1·7	69·6	84	1·6	Nil	Nil	Nil	0·01	Nil	—0·01	80·67	58·00	+22·67	0·0	0·1	Purneah	Purneah / North Bhaugulpore	
	Mozufferpore	Mozufferpore	29·844	30·032	—	Calm	34	81·9	1st ,,	62·2	1st ,,	80·5	65·7*	73·2*	—	68·6	94	0·7	Nil	Nil	Nil	0·03	Nil	—0·03	53·37	42·70	+9·67	0·0	0·1	Mozufferpore	Mozufferpore	
	Durbhunga	Durbhunga	29·865	30·042	+ 038	WNW	37	82·9	2nd ,,	60·5	6th ,,	81·5	61·0	71 7	—3·0	68·5	78	1·7	Nil	Nil	Nil	0·01	Nil	—0 01	57·63	43·91	+13·72	0·0	0·1	Durbhunga	Durbhunga	
	Chumparun	Motihari	29·819	30·036	+ 034	Variable	61	81·2	1, 2 & 5 ,,	55·9	5th ,,	80·0	67·9	69·3	—1·6	68·8	80	0·9	Nil	Nil	Nil	Nil	Nil	Nil	65·47	45·89	+23·58	0·0	0·0	Motihari	Chumparun	
	Sarun	Chupra	29·839	30·040	+ 061	Calm	14	82·3	5th ,,	63·4	1st ,,	81·6	65·0	73·3	—0·1	70·2	79	2·7	Nil	Nil	Nil	0·03	Nil	—0·03	53·61	41·70	+11·90	0·0	0·1	Chupra	Sarun	
	Tirhoot	Dehree	29·676	30·043	+ 041	Calm	23	84 3	1st ,,	58·0	1st ,,	83·1	6··3	71·7	—1·6	72·1	83	1·9	Nil										Dearee		
	Shahabad	Buxar / Arrah	29·768 / 29·837	30 045 / 30·057	+ 039 / + 054	WSW / Variable	43 / 5	83·1 / 85 6	2nd ,, / 1st ,,	60·9 / 59·0	3rd ,, / 1st ,,	82·6 / 82·5	62·7 / 61·7	72·7 / 72 3	—1·6 / —0·9	69·5 / 69·6	68	4·3	Nil	Nil	Nil	0·09	Nil	—0·09	43·59	39·15	+10·44	0·0	0·2	Shahabad	Shahabad	
																	80	3·1	Nil										Buxar / Arrah		
	Gya	Gya	29·803	30·056	+ 051	S	105	86·4	1 & 2 ,,	62·1	2nd ,,	83·6	65·3	74·5	—0·1	72·9	83	4·1	Nil	Nil	Nil	0·14	Nil	—0·14	56·03	43·71	+16·22	0·0	0·2	Gya	Gya	
	Patna	Bankipore	29·854	30 045	+ 0·5	Calm	28	83·3	1st ,,	62·7	2nd ,,	81·6	64·7	73·2	—1·7	72 2	68	3·7	Nil	Nil	Nil	0 10	Nil	—0·10	48·10	45·51	+7·59	0·0	0·2	Bankipore	Patna	
South-West Bengal.	South Bhaugulpore / Monghyr	Bhaugulpore	29·852	30 019	+ 030	Calm	3	82·3	1 to 3 ,,	65·0	6 & 7 ,,	81·9	64·2	74·1	+1·3	72·5	76	4·0	Nil	Nil	Nil	0·03	Nil	—0·03	52·25	42·37	+9·88	0 0	0 1	Bhaugulpore	South Bhaugulpore / Monghyr	South-West Bengal.
	Santhal Pergunnah	Deoghar	29·811	30·026	+ 041	E	48	82·6	5th ,,	63 3	7th ,,	81·9	66 7	74·3	+0·9	72·5	77	1·4	0·21	0·38	0·05	0·35	0·05	+0·33	63·63	59·15	+13·50	0·3	0·2	Deoghar	Santhal Pergunnahs...	
	Hazaribagh	Hazaribagh	27·973	30 049	+ 016	Variable	94 0	79·2	1st ,,	60·5	7th ,,	77·2	62·1	69·2	—0·5	69·4	81	8·0	Nil	0·01	0·13	0·01	0·13	—0·12	49·45	● 48·97	+0·48	0·2	0·3	Hazaribagh	Hazaribagh	
Chota Nagpur.	Lohardugga / Manbhoom	Kanchee	27·853	30·085	+ 026	Calm	72	80·3	6th ,,	59·6	1st ,,	77·9	61·3	69·6	+0·5	66·5	81	0·9	Nil	Nil / 0·10	0 19 / 0·02	Nil / 0·10	0·19 / 0·02	—0·19 / +0·02	47·01 / 41·58	47·14 / 46·12	—0·13 / —4·50	0·0 / 0·5	0·4 / 0·3	Lohardugga / Manbhoom	Lohardugga / Manbhoom	Chota Nagpur.
	Singbhoom	Chyebassa	29·223	30·038	+ 045	ENE	28	86·0	1st ,,	62·0	5th ,,	84·1	69·7	75·4	+0·0	72·8	88	6·9	Nil	Nil	Nil	0·19	Nil	—0·19	53·94	50·45	—16·49	0·0	0·5	Chyebassa	Singbhoom	

* Means of five days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The variations are *negatives* when the mean for the week is less than the corresponding normal mean, and *positives* when greater. The humidity of the atmosphere is expressed as percentages, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The amounts of cloud are means of observations taken at 8 A.M. and 3 P.M. Rainfall in these districts is determined from the returns received by the sub-divisional stations for the period in question during the same ten years. The normal means of the rainfall in these districts are the arithmetical average of the rainfall returns received in the districts, i.e., from those stations of the sub-divisional stations which have been working for the whole of the ten years. The variations are the differences between the mean rainfall of the week and the normal means. Under the head District observation of rainfall the normal means are the arithmetical means of the returns of the stations which have been working for the whole of the ten years. The means of the districts are the arithmetical average of the rainfall returns received in the districts, i.e., from those stations of the sub-divisional stations which have been working for the whole of the ten years. A rainy day is one on which at least hundredth of an inch fell.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of November 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 1st November.	Sunday, 2nd November.	Monday, 3rd November.	Tuesday, 4th November.	Wednesday, 5th November.	Thursday, 6th November.	Friday, 7th November.	Total number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa	Pooree	Pooree	1·17	0·18	0·01	0·41	0·43	0·08	.....	6	2·28	2·28	1·40	69·97	46·80
		Khurdah	.....	.....	0·06								0·99		55·09
		Banpur	0·30	0·60									1·39		47·35
		False Point	0·49	1·78	.....	0·36	1·06	.....	.....	4	3·69	3·69	1·56	66·10	62·55
		Gop											?		?
		Satpara	2·25	0·40	.....	0·47							?		?
		Pipli	0·18		0·11								?		?
	Cuttack	Jagatsingpore	1·60	.....	.....	.....	.....	.....	.....	1	1·60	1·60	0·53	63·67	46·66
		Banki	3·01	2·07	.....	.....	.....	.....	.....	2	5·08	5·08	0·46	65·92	46·34
		Cuttack	1·06	0·73	.....	.....	.....	.....	.....	2	1·79	1·79	0·68	61·99	55·23
		Kendrapara	0·32	0·27	.....	.....	.....	.....	.....	2	0·59	0·59	0·57	53·15	51·87
		Jajpore	.....	0·24	.....	.....	.....	.....	.....	1	0·24	0·24	0·33	52·94	51·76
		Dharmsala	0·10	.....	.....	.....	.....	.....	.....	1	0·10	0·10	?	53·18	?
		Salipore	0·70	.....	.....	.....	.....	.....	.....	1	0·70	0·70	?	52·15	?
	Balasore	Chandbali	0·03	0·10	0·03	.....	.....	.....	.....	3	0·16	0·16	0·93	51·81	51·81
		Bhuddruck	.....	0·68	.....	.....	.....	.....	.....	1	0·68	0·68	0·56	57·85	50·56
		Sorah	0·10	.....	.....	.....	.....	.....	.....	1	0·10	0·10	0·51	60·84	50·44
		Balasore	2·05	0·20	.....	.....	.....	.....	.....	2	2·25	2·25	0·09	68·13	56·88
		Jellasore	1·21	.....	.....	.....	.....	.....	.....	1	1·21	1·21	0·25	65·83	59·92
		Baripodah											0·34		52·79
South-West Bengal	Midnapore	Contai	0·30	0·15	.....	.....	.....	.....	.....	2	0·45	0·45	0·55	67·73	60·46
		Sangor Island	0·20	1·22	0·02	.....	.....	.....	.....	3	1·44	1·44	0·70	69·05	56·30
		Tumlook	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	57·90	50·59
		Midnapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	47·47	47·92
		Ghatal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	44·01	53·82
		Kukrahaty	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·29	?
		Garbetta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		46·23	?
	24-Pergunnahs	Diamond Harbour	0·04	.....	.....	.....	.....	.....	.....	1	0·04	0·04	0·23	62·13	57·37
		Canning Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·69	?
		Alipore Jail	.....	0·05	.....	.....	.....	.....	.....	1	0·05	0·05	0·27	61·96	54·55
		Barrackpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	50·91	48·49
		Dum-Dum	0·59	.....	.....	.....	.....	.....	.....	1	0·59	0·59	0·17	56·34	50·76
		Baraset	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	54·84	48·96
		Buseerhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	58·67	53·95
										Nil	Nil	Nil	0·25	51·34	50·05
										Nil	Nil	Nil	0·32	59·57	51·03
	Howrah	Howrah	.....	.....	.....	.....	.....	.....	.....	1	0·03	0·03	0·16	54·30	49·37
		Mohesreka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	52·05	47·36
		(*Golobersah*)	0·03	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	51·57	54·43
	Hooghly	Serampore	.....	.....	.....	.....	.....	.....	.....						
		Hooghly	.....	.....	.....	.....	.....	.....	.....	1	0·20	0·20	0·34	54·31	48·60
		Jehanabad	.....	.....	.....	.....	.....	.....	.....	1	0·56	0·56	0·27	65·53	47·46
	Burdwan	Culna	0·20	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	64·36	47·16
		Burdwan	0·56	.....	.....	.....	.....	.....	.....	1	0·10	0·10	0·10	60·54	48·57
		Cutwa	.....	.....	.....	.....	.....	.....	.....	1	0·41	0·41	?	48·21	?
		Raneegunge	0·10	.....	.....	.....	.....	.....	.....						
		Mankur	0·41	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	57·76	50·89
										Nil	Nil	Nil	0·03	50·95	51·36
	Bankoora	Bankoora	.....	.....	.....	.....	.....	.....	.....	1	0·05	0·05	0·29	50·28	48·04
		Bishenpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	40·06	55·91
		Maliara	0·05	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·97	?
		Khatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·04	?
		Indus	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·11	?
		Kotalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·75	?
		Anda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·29	?
		Gangajalghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·74	?
		Raipore	.....	.....	.....	.....	.....	.....	.....						
		Nomamukhi	.....	.....	.....	.....	.....	.....	.....	2	0·33	0·33	0·06	62·28	53·05
	Beerbhoom	Bh. Soory	0·23	0·10	.....	.....	.....	.....	.....	1	0·76	0·76	0·10	60·31	53·62
		Hetampore	0·76	.....	.....	.....	.....	.....	.....	1	0·20	0·20	0·09	72·56	50·67
		Rampore Haut	.....	0·20	.....	.....	.....	.....	.....	1	1·19	1·19	?	57·43	?
		Bolpore	.....	1·19	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·46	?
		Murarai	.....	.....	.....	.....	.....	.....	.....						
										Nil	Nil	Nil	0·34	55·46	46·27
	Nuddea	Ranaghat	.....	.....	.....	.....	.....	.....	.....	1	0·20	0·20	0·31	61·66	45·31
		Kishnaghur	0·20	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	47·08	50·42
		Chooadanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	58·86	46·99
		Meherpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	52·09	53·71
		Kooshtea	.....	.....	.....	.....	.....	.....	.....						
										1	0·48	0·48	0·25	57·61	54·9
	Khoolna	Satkhira	0·48	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	62·51	60·3
		Bagirhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	52·88	53·75
		Khoolna	.....	.....	.....	.....	.....	.....	.....	1	0·99	0·99	?	76·02	?
		Nakipur	.....	0·30	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·78	?
		Rampal	.....	.....	.....	.....	.....	.....	.....						
										Nil	Nil	Nil	0·36	51·45	45·16
	Jessore	Narail	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	59·49	53·48
		Jessore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	54·16	52·71
		Jhenidah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	49·44	48·53
		Magoorah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	46·66	50·87
		Bongong	.....	.....	.....	.....	.....	.....	.....						
										1	0·80	0·80	0·11	64·89	49·21
	Moorshedabad	Kandi	0·80	.....	.....	.....	.....	.....	.....	1	0·05	0·05	0·21	59·27	50·26
		Berhampore	0·05	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	63·67	49·39
		Lalbagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	58·27	50·42
		Azimgunge	.....	.....	.....	.....	.....	.....	.....	1	0·50	0·50	0·04	51·83	48·45
		Jungipore	0·50	0·65	.....	.....	.....	.....	.....	1	0·65	0·65	0·10	65·35	50·56
		Lalgola	.....	.....	.....	.....	.....	.....	.....				?		?
		Jiagunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·99	?
		Akhriganj	.....	.....	.....	.....	.....	.....	.....				?		?
		Pathabari													
															131·53
										3	1·37	1·37	1·60	129·42	91·93
East Bengal	Chittagong	Cox's Bazar	.....	.....	0·84	0·20	0·53	.....	.....	3	1·37	1·37	0·90	108·69	?
		Chittagong	.....	.....	.....	0·02	1·30	0·05	.....				?		?
		Kutubdia	.....	.....	.....	1·20			.....	1	0·15	0·15		81·41	
		Sathanya	.....	.....	.....		0·15	.....	.....				?		81·94
										1	0·03	0·03	1·39	69·92	76·2
	Chittagong Hill Tracts.	Rangmati	0·03	.....	.....	.....	.....	.....	.....	1	0·80	0·80	1·80	77·71	
		Rama	.....	0·80	.....	.....	.....	.....	.....						86·02
													Nil	99·01	68·85
	Backergunge	Patuakhally	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·38	63·91	66·31
		Perozepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·97	65·76	60·46
		Burrisal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·91	64·99	
		Bnola	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·00		

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of November 1890 —contd.

Meteorological Division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 1st November.	Sunday, 2nd November.	Monday, 3rd November.	Tuesday, 4th November.	Wednesday, 5th November.	Thursday, 6th November.	Friday, 7th November.	Number of rainy days.	Rainfall of week.				
EAST BENGAL —contd.		*Gournaddi* ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·66	?
		Bauphal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	75·26	?
	Noakholly ...	Noakholly ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·49	92·34	106 ·2
		Feuny ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·6	103·10	103·03
		Hariakpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	108·61	?
		Ramgunj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	85·28	?
	Furreedpore	Madaripore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	41·91	54·90
		Furreedpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	40·45	57 13
		Goalundo .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	44·90	52·34
	Dacca ..	Munshigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·57	57 78	66 97
		Dacca ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	54·38	57 88
		Naraingunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	il	0·32	60·71	60·08
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	59·71	49·34
		Joydebpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·26	.
	Hill Tipperah Tipperah ...	Agartola ...	.....										0·56		60 35
		Comilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·59	67·24	74·57
		Chandpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 46	56·78	74 ·8
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	54·64	60 78
		Ramchandra pore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·11	?
		Nasirnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	84 81	?
		Daudkandi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	80·44	?
		Kasba ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·71	?
		Laksham ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·55	?
	Mymensingh..	Kishoreganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	68·87	69·09
		Atia (*Tangail*	0·81	.....	.....	.....	.....	.....	.....	1	0·81	0·81	0·18	56 67	54 8
		Mymensingh	0·05	.....	.....	.....	.....	.....	.....	1	0·05	0·05	0·22	76·05	73·30
		Jamalpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	70·16	64·42
		Netrakona ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	96·54	80·01
		Suhomakhali	0·42	.....	.....	.....	.....	.....	.....	1	0·42	0·42	?	58·25	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·07	?
		Sherepore Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·41	?
		Dewanganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·90	?
NORTH BENGAL.	Pubna ...	Pubna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	46·08	53 31
		Serajgunge ...	0·77	0·37	.....	.....	.....	.....	.....	2	1·14	1·14	0 33	63·81	52·14
	Bogra ...	Sherepore ...	0·59	.....	.....	.....	.....	.....	.....	1	0·59	0·59	0·31	77·86	57·52
		Nowkhilla ...	0 37	.....	.....	.....	.....	.....	.....	1	0·37	0·37	0 19	66 79	55·44
		Bogra ...	0·60	0·08	.....	.....	.....	.....	.....	2	0·68	0·68	0 10	7·92	60·24
		Panchbibi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	91·46	55·26
	Rajshahye ...	Beauleah ...	0·95	.....	.....	.....	.....	.....	.....	1	0·95	0·95	0·05	72·29	52·30
		Nattore ...	1·55	.....	.....	.....	.....	.....	.....	1	1·55	1·55	0·18	88·84	54·11
		Naogaon ..	0 30	.....	.....	.....	.....	.....	.....	1	0·30	0·30	0·01	66·15	51·83
		Lalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·38	?
		Manda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·04	?
	Maldah ...	Maldah ..	0·03	.....	.....	.....	.....	.....	.....	1	0·03	0·03	0·10	64·65	50·92
		Chanchal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	59·02	56·04
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·40	?
		Sibganj ..	0·12	.....	.....	.....	.....	.....	.....	1	0·12	0·12	?	62·80	?
	Dinagepore ..	Mohadeopore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	67·94	55 89
		Churamon ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	60·28	52·01
		Gaigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	92 75	57·55
		Dinagepore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 05	80·80	03·49
		Balurghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	81·01	51·90
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	107·04	?
	Rungpore ..	Bamandanga (*Gyabanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	123·00	61·98
		Rungpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	90·56	73 07
		Kurigram ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	96·59	72·80
		Begdogra (*Nilphamari*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	111·28	83·85
		Dilipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	97·52	?
	Julpigoree ...	Julpigoree ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	136·26	116·68
		Alipore Duar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	187·47	?
		Fallacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	146·.0	?
		Debiganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	115·.0	?
		Bhagalpore (Nuyrakattu)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	182·64	?
	Cooch Behar.	Dinhatta .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	128·.6	94·22
		Cooch Behar..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 02	163 37	117·68
		Mekaliguuge..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	1.6 3..	104·58
		Mathabhanga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	17·.01	1.1·86
	Darjeeling Hill.	Buxa ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 15	210·04	190·87
		Silliguri ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	178·31	101 09
		Darjeeling ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 02	150·.2	107·12
		Kalimpong ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	123·00	76 97
		Kurseong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	192·78	?
SOUTH BEHAR	Purneah ...	Kissengunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	105 38	69·66
		Arrareah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	83·78	63·11
		Purneah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	80 36	60·98
		Gondwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	190·45	?
		Mazari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·9.	?
		Kaliagunj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·55	?
	North Bhagulpor	Naddapore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	61 61	48·98
		Soopool ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	63·31	47·89
		Protabganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·89	?
	Durbhunga ...	Rajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	51·70	48·89
		Durbhunga ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	59·56	45·09
		Madhubani ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	62·61	44·29
		Dahere ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·58	?
		Bossere ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Mozufferpore	Sitamarhi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	82·96	49·87
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 02	56·18	44·62
		Hadipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	45 60	41·39
		Pare ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·81	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·79	?
		Sishar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·18	?
		Pupri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·19	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of November 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 1st November.	Sunday, 2nd November.	Monday, 3rd November.	Tuesday, 4th November.	Wednesday, 5th November.	Thursday, 6th November.	Friday, 7th November.	Total of Number of rainy days.	Total of Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —concluded.	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	72·06	44·09
		Bettiah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	66·89	47·81
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Harhurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·30	?
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	52·87	42·34
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	59·84	43·01
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	46·27	39·71
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	52·47	41·46
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	43·14	39·06
		Bhaboosh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	41·11	40·19
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	44·19	39·73
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	66·96	39·35
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	59·49	41·81
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	60·04	41·78
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	54·84	39·06
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	53·35	40·09
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Daudnagar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Sherrghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·81	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·60	?
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·24	?
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	59·02	41·15
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	52·13	40·72
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	46·95	41·07
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	43·25	39·11
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	?
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	44·29	39·24
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	54·84	45·34
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	60·22	42·75
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·44	?
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·76	
	South Bhagulpore	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	59·77	41·36
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	42·11	43·09
		Kahalgaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·06	?
		Bangaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	56·86	51·69
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	58·75	45·60
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	74·16	54·89
		Nya Doomka ...	.....	0·11	.....	.....	.....	.....	.....	1	0·11	0·11	0·07	74·11	54·41
		Deoghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	49·43	49·42
		Jamtara ...	.....	2·15	.....	.....	.....	.....	.....	1	2·15	2·15	0·10	76·43	47·46
		Mohasama ...													
		Nasihat ...	.....	1·30	.....	.....	.....	.....	.....	1	1·30	1·30	?		?
Chutia Nagpur.	Hazaribagh ...	Peenamba (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	55·35	46·64
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	49·95	47·00
		Semtagurah ...	.....	0·05	.....	.....	.....	.....	.....	1	0·05	0·05	0·12	38·89	45·08
		Mahudi Hills											0·22		47·92
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	56·80	59·21
		Barki ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	?
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·08	?
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·34	?
		Kemghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	?
	Lohardugga ...	Lohardugga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	53·19	48·89
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	46·57	51·02
		Palamow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	36·27	48·18
		Silli ...	.....	0·35	.....	.....	.....	.....	.....	1	0·35	0·35	?	43·85	?
		Rolumet ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·69	?
		Hosseinabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75	?
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·30	?
	Singbhoom	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	38·94	50·56
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·83	?
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·46	?
		Kharagpura											?		?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	44·22	48·23
		Gobindpore ...	.....	0·21	.....	.....	.....	.....	.....	1	0·21	0·21	0·09	38·84	44·18
		Kashmathpore.	.....	0·40	.....	.....	.....	.....	.....	1	0·40	0·40	?	62·26	?
		Barrabhoom ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·15	?
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·71	?
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	39·18	?

Explanation —.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 11th November* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 7TH OF NOVEMBER 1890.

WEATHER conditions in the south of the Bay have been unsettled during almost the whole week in consequence of the low pressure which has obtained there from day to day. The effect of this slight disturbance has been felt in the north of the Bay and in parts of Bengal and Orissa, especially the latter, where skies have been overcast and moderately heavy general rain has fallen. At the end of the previous week the depression, which appeared to be approaching the Madras coast, became more diffused, owing to the fall of pressure in the north of the Bay, and the squally weather subsided; but about the middle of the present week there was a further slight intensification, and this kept up the moist and cloudy weather over the whole Bay and Lower Bengal. Squalls again increased in force in the south of the Bay, especially in the Circars, where heavy rain was falling; but, as before, the disturbance failed to concentrate, and disappeared without a definite depression having crossed the coast. Cool clear weather prevailed in the northern districts of Bengal with occasional very light showers, and though considerable amounts of cloud were reported from the stations in the southern districts, fine though moist weather was generally experienced, except on Saturday, the 1st of November, when light showers fell in South-West Bengal and heavier ones in Orissa and Chittagong. The rainfall continued in the south of Orissa till the end of the week, and in Chittagong for two or three days. As pressure has been highest in the northern districts and diminished towards the low-pressure area in the south of the Bay, steady light northerly winds continued till the 7th, when directions were more irregular.

Pressure—Has undergone the usual small oscillations, but has been always above the normal. Mean excess varies from ·03 inch in Orissa, South-West Bengal, and Chutia Nagpur, to ·07 inch at a few of the more northern stations.

Temperature—Has been very nearly normal in Orissa, slightly above in parts of South-West Bengal, North Bengal, and Chutia Nagpur, and considerably below elsewhere. The lowest minimum temperatures were registered in Behar in the early part of the week, in South-West Bengal on the 5th, and elsewhere on the 6th and 7th. In the table below giving the weekly means at representative stations it will be seen that the day temperatures have been considerably below the normal at Darjeeling and Dacca, but that elsewhere the defect has occurred chiefly at night. The mean for North Behar is below the normal by 1·6°, for East Bengal by 1·4°, and for South Behar by ·7°, while for the other districts it is either normal or slightly below.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 7th November 1890.

	Normal mean maximum temperature for the week ending 7th November.	Actual mean maximum temperature for the week ending 7th November 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 7th November.	Actual mean minimum temperature for the week ending 7th November 1890.	Variation of actual mean from the normal.	Normal mean [illegible] ture for the week ending 7th November.	Actual [illegible] ture for the week ending 7th November 1890.	Variation of actual mean from the normal.
Cuttack	85·7	84·6	—1·1	71·0	72·5	+1·5	78·4	78·6	+0·2
Calcutta	83·2	82·4	—0·8	69·5	68·1	—1·4	76·3	75·3	—1·0
Dacca	85·2	83·7	—1·5	70·3	68·9	—3·4	77·8	75·3	—2·5
Burdwan	84·5	84·2	—0·3	68·9	69·1	+0·2	76·7	76·6	—0·1
Patna	84·8	81·6	—3·2	64·9	64·7	—0·2	74·9	73·2	—1·7
Gya	85·1	83·6	—1·5	64·0	65·3	+1·3	74·6	74·5	—0·1
Purneah	84·5	81·4	—3·1	62·6	62·7	+0·1	73·6	72·1	—1·5
Hazaribagh	79·0	77·7	—1·3	61·9	62·1	+0·2	70·5	69·9	—0·6
Darjeeling	56·8	53·6	—3·2	43·4	40·9	—2·5	50·1	47·2	—2·9

Rainfall has been chiefly confined to Orissa, but light showers fell in all districts, except North Behar, in the early part of the week. The average fall for Orissa is 1·42 inches, almost double the normal; for South-West, East and North Bengal about ·2 inch; for South Behar ·09 inch, and Chutia Nagpur ·02 inch. Defect in East Bengal is ·52 inch and in Chutia Nagpur ·12 inch. The continued showery weather in the south of Orissa is shown by the number of rainy days at Pooree being 6 with a total fall of 2·28 inches, and at False Point 4 with a total fall of 3·69 inches. The heaviest fall reported is 3·01 inches at Banki on the 1st.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 7th of November 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	86·2	66·8	82·2	72·0	77·1	0	1·42	0·75	+0·67	2·1	0·7	+1·4	1·42	0·75	63·19	51·99
South-West Bengal ...	86·3	62·7	83·6	68·5	76·0	−0·3	0·17	0·24	−0·07	0·5	0·4	+0·1	0·17	0·24	56·83	51·24
East Bengal	86·2	61·5	82·7	67·4	75·0	−1·4	0·17	0·69	−0·52	0·4	0·7	−0·3	0·17	0·69	71·42	73·28
North Bengal	85·6	57·3	82·0	64·3	73·2	−0·3	0·22	0·07	+0·15	0·4	0·2	+0·2	0·22	0·07	95·09	68·74
North Behar	83·2	55·9	81·1	62·6	71·9	−1·6	Nil	0·01	−0·01	0·0	0·1	−0·1	Nil	0·01	34·38	47·91
South Behar	84·4	58·0	82·5	63·9	73·2	−0·7	0·09	0·08	+0·01	0·1	0·2	−0·1	0·09	0·08	54·66	48·86
Chutia Nagpur	80·3*	59·6*	77·8*	61·7*	69·8*	0*	0·03	0·14	−0·12	0·2	0·4	−0·2	0·03	0·14	46 00	49·92

* Chyebasse not included.

Meteorological Office, Bengal; C. Little,
The 11th November 1890. *Offg. Meteorological Reporter to the Govt. of Bengal.*

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of October 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29·843		
The average pressure of October from 24 years' registers ...	29·832		
The highest pressure in the month	30·024	28th	10
The lowest pressure in the month	29·653	14th	16
The range of pressure	0·371		
	Hours.		
The total number of hours of bright sunshine during the month	208·7		
The maximum possible number of hours of sunshine ...	359·1		
	°		
The mean temperature of the month	79·1		
The average temperature of October from 24 years' registers	81·5		
The highest temperature in the month	89·7	3rd	
The lowest temperature in the month	66·9	27th.	
The range of temperature during the month	22·8		
The mean daily range of temperature	11·4		
The greatest range of temperature in one day	16·5	27th.	
	Per cent.		
The mean humidity of the month	85		
The average humidity of October from 24 years' registers ...	79		
	Inches.		
The mean vapour pressure of the month	0·846		
The average vapour pressure of October from 9 years' registers ...	0·854		
The mean cloud proportion of the month	3·94		
The average cloud proportion of October from 13 years' registers	4·14		
The total rainfall of the month	8·54		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	6·43		
The average fall of October from 48 years' registers ...	5·61		
The greatest fall in 24 hours	2·91	14th.	
	Days.		
The number of rainy days in the month	11		
The average number of rainy days in October from 24 years' registers	10		
	°		
The mean maximum equilibrium temperature of solar radiation during the month	137·1		
The mean difference of sun and air temperatures	52·5		
The greatest sun temperature	153·0	10th.	
The greatest excess of sun over air temperature	64·2	10th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	70·3		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	3·2		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	6·4	25th and 27th.	
	Miles.		
The mean movement of the wind per day	45·7		
The greatest movement of the wind in one day	161·0	14th.	
The greatest movement of the wind in one hour	12·0	22nd noon to 1 P.M.	

The number of hours with winds from each of the 8 points—

N. 62, N.E. 30, E. 81, S.E. 72, S. 26, S.W. 58, W. 28, N.W. 47, Calm 340.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently equal; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer which is the standard of reference at the present Observatory.

J. H. GALLEHAN,

Officiating Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 10th November 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 2nd to 8th November 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Nov.	2nd	140·7	7·5	29·908	75·8	82·0	13·8	68·2	71·6	0·721	69·5	81	ENE and calm ..	39	Nil	Partially cloudy, ⌓.
,,	3rd	143·5	6·4	·941	76·1	82·3	12·7	69·6	69·9	·649	66·4	73	ENE and calm ...	61	,,	Partially cloudy, ⌓.
,,	4th	140·0	9·9	·979	74·8	82·7	16·1	66·6	68·9	·628	65·4	74	ENE and calm ...	52	,,	Chiefly clear, ⌓.
,,	5th	139·4	6·4	·990	74·2	81·8	16·0	65·8	69·6	·664	67·0	80	ENE and calm ...	13	,,	Partially cloudy ⌓.
,,	6th	140·8	8·2	·947	74·6	81·5	14·4	67·1	70·7	·702	68·7	83	Calm and variable...	9	,,	Chiefly clear, ⌓.
,,	7th	143·8	8·0	·944	74·9	81·2	13·5	67·7	71·0	·708	68·9	83	Calm and variable...	23	,,	Chiefly clear, ⌓.
,,	8th	138·7	6·5	·998	76·1	81·3	12·5	68·8	72·2	·739	70·2	83	Calm ...	5	,,	Partially cloudy, ⌓.

	Inches.
The mean pressure of the seven days	29·957
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·923
	Hours.
The total number of hours of bright sunshine	52·9
The maximum possible number of hours of sunshine	78·3
	°
The mean temperature of the seven days	75 2
The average temperature of the corresponding period for 24 years, S.-G.'s Office	77·9
The extreme variation of temperature	16·9
The maximum temperature	82 7
	Miles.
The highest velocity of the wind in one hour	9
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	80
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	74
	Inches.
The total fall of rain from 2nd to 8th November 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·26
The total fall from 1st January to 8th November 1890	61·25
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	64·78

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

⌓, dew.

N.B.—In the weekly report form 5th to 11th October 1890, read "76·8" for "86·8" as dew point of the 5th October 1890.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 10th November 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of October 1890.

	Inches.	Date.
The mean pressure at 10 A.M during the month	29·905	
	°	
The mean temperature at 10 A.M. during the month	82·7	
The highest temperature during the month	92·0	3rd.
The lowest temperature during the month	67·9	27th.
The absolute range of temperature during the month	24·1	
The mean daily range of temperature during the month ...	11·9	
The greatest range of temperature in one day during the month ...	17·2	27th.
	%	
The mean 10 A.M. humidity during the month	76	
	Inches.	
The mean 10 A.M. vapour pressure during the month	·839	
The total rainfall of the month	8·89	
The greatest fall in 24 hours	2·65	14th.
	Days.	
The number of rainy days in the month	9	

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 10th November 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 2nd to 8th November 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
November...	2nd ...	29·971	76·4	83·4	14·1	69·3	79·2	73·1	·734	70·0	74	...
,, ...	3rd ...	·997	76·8	83·7	13·9	69·8	79·8	69·6	·583	62·6	58	...
,, ...	4th ...	30·039	76·6	84·9	16·7	68·2	80·1	70·1	·603	64·2	58	...
,, ...	5th ...	·051	75·0	83·1	16·3	66·8	77·4	69·6	·620	65·1	66	...
,, ...	6th ...	·016	75·1	82·1	14·1	68·0	79·6	71·6	·669	67·3	66	...
,, ...	7th ...	·016	76·4	83·9	15·1	68·8	78·6	70·1	·624	65·2	64	...
,, ...	8th ...	·066	76·4	82·9	13·1	69·8	79·8	72·6	·706	68·8	69	...

	Inches.
The mean 10 A.M. pressure of the seven days	30·022
The mean temperature of the seven days	76·1
The extreme variation of temperature	18·1
The maximum temperature	84·9
	%
The mean 10 A.M. relative humidity of the seven days	65
	Inches.
The total fall of rain from 2nd to 8th November 1890	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
The 10th November 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 18th October 1890.

Births.

The births registered during the week ending with Saturday, the 18th October 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 25· per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is ·9 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1886 and 1889—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	24·4	26·5	22·8	18·2	28·3	24·1	25·0

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 27th Sept. 1890.	4th Oct. 1890.	11th Oct. 1890.	18th Oct. 1890.	Towns.	Weeks ending— 27th Sept. 1890.	4th Oct. 1890.	11th Oct. 1890.	18th Oct. 1890.
Burdwan	16·8	53·4	13·7	33·6	Narainganj	41·4	37·3	49·7	4·8
Midnapore	9·3	17·0	18·6	7·7	Chittagong	11·7	9·4	9·4	9·4
Hughli and Chinsurah	18·1	34·5	41·0	49·3	Comillah	27·0	15·4	27·0	27·0
Serampore	41·3	47·1	49·1	23·6	Patna City	11·4	19·8	13·3	14·3
Utterpara	23·3	9·4	37·7	47·2	Gya	26·0	36·9	30·7	39·6
Howrah	22·9	25·2	29·3	24·6	Arrah	19·1	47·9	45·5	20·2
Bali	17·5	28·1	31·6	28·1	Mozufferpore	24·3	24·3	29·2	21·9
Krishnagar	17·0	26·5	9·5	18·9	Durbhanga	38·5	40·9	43·3	37·0
Ranaghat	24·0	12·0	12·0	18·0	Chupra	13·1	38·2	48·3	40·3
Santipore	5·2	26·3	17·5	8·8	Bhagulpore	29·0	26·2	42·5	16·3
Jessore	12·2	.....	6·1	6·1	Monghyr	39·8	57·9	58·8	37·1
Rampore Beauleah	57·8	63·1	39·4	31·5	Purneah	10·4	10·4	20·8	6·9
Darjiling	44·5	22·2	51·9	51·9	Poori	12·6	14·7	19·9	16·8
Dacca	21·4	15·0	18·8	24·0	Total ...	23·2	29·7	29·5	25·0

It will be seen that last week the highest birth-rate was returned from Darjiling (51·9) and the lowest from Jessore (6·1).

Deaths.

The deaths registered during the week under review correspond to an annual rate of 22·8 per 1,000 of the population. The rate of the week is 5·9 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	32·8	37·0	24·3	21·9	27·2	28·7	22·8

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 27th Sept. 1890.	4th Oct. 1890.	11th Oct. 1890.	18th Oct. 1890.	Towns.	Weeks ending— 27th Sept. 1890.	4th Oct. 1890.	11th Oct. 1890.	18th Oct. 1890.
Burdwan	26·4	20·3	26·4	22·9	Narainganj	6·1	10·6	27·7	24·3
Midnapore	13·9	14·5	27·9	13·4	Chittagong	16·9	9·4	16·4	14·1
Hughli and Chinsurah	27·4	29·6	27·0	29·5	Comillah	15·4	7·7	15·4	11·5
Serampore	13·1	23·6	23·6	47·1	Patna City	19·3	14·9	30·6	15·9
Utterpara	18·9	28·4	28·3	37·7	Gya	30·3	47·1	34·6	30·1
Howrah	23·0	19·7	21·3	17·2	Arrah	25·5	25·3	22·3	19·9
Bali	24·1	24·3	24·3	24·3	Mozufferpore	12·2	21·6	24·3	22·0
Krishnagar	19·0	19·0	9·5	7·6	Durbhanga	32·0	32·4	32·4	29·2
Ranaghat	6·0	6·0	12·0	24·0	Chupra	11·1	24·3	29·1	25·2
Santipore	.....	13·2	8·8	8·8	Bhagulpore	20·8	16·3	14·5	17·4
Jessore	6·1	18·4	30·6	.....	Monghyr	33·3	39·8	39·8	31·7
Rampore Beauleah	26·6	36·8	44·7	42·0	Purneah	6·9	10·4	17·3	6·9
Darjiling	37·0	22·2	44·5	51·9	Poori	14·7	35·3	42·0	25·2
Dacca	23·1	17·5	16·2	16·2	Total ...	23·4	23·0	25·3	23·0

It will be seen that last week the highest mortality occurred in the town of Gya (60·1) and the lowest in Santipore (3·5). No deaths were registered during the week in Jessore town.

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes occurred in the following towns:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Mozufferpore	13·4	Darjiling	51·9	Monghyr	12·7
Gya	8·9	Gya	34·8	Gya	12·3
Patna City	4·5	Rampore Beauleah ...	23·3		
		Serampore	23·6		
		Bali	21·1		

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2·2 from cholera, against 3· per 1,000 in the preceding week; ·04 from small-pox, against ·2; 11· from fever, against 12·7; 3·7 from bowel-complaints, against 2·6; ·1 from injury, against ·6; and 5·7 from other causes, against 6·1 in the preceding week. The mortality from bowel-complaints is noticeably severe only in the Serampore town, there being eight deaths (15·7 per 1,000 of the population).

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mi*
Males	24·3	Hindus ...	23·8	Under 1 year ...	176·2
Females	21·1	Mahomedans ...	20·8	1 and under 5 years ...	23·5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	115			5 „ 10 „ ...	16·5
				10 „ 15 „ ...	9·2
				15 „ 20 „ ...	13·5
				20 „ 30 „ ...	12·8
				30 „ 40 „ ...	14·6
				40 „ 50 „ ...	16·2
				50 „ 60 „ ...	25·5
				60 years and upwards ...	68·0

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 8th November 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 18th October 1890

1	2	3			4			5			6	7							8						9	10		11		11
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.																Sex.		
					Number of—			Ratio per 1,000 of Population per annum.				Deaths from—							Ratio per 1,000 of Population per annum.											
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of Population per annum.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan	Burdwan	13,063	16,017	34,080	6	16	29	9·2	24·4	33·6	37	..	...	12	1	...	2	15	...	...	18·3	1·5	...	3·1	22·9	24·4	9	6	25·9	19·5	132
Midnapore	Midnapore ...	16,927	16,633	33,560	2	3	5	3·1	4·6	7·7	66	...	...	1	2	...	5	8	...	...	1·5	3·1	...	7·7	12·4	27·9	5	3	15·4	9·4	164
Hughli	Hughli and Chinsurah.	15,858	15,829	31,687	16	14	30	25·2	23·0	49·2	114	...	...	12	2	...	4	18	...	...	19·7	3·3	..	6·5	29·5	27·9	12	6	39·3	19·7	199
Serampore	Serampore ...	13,559	12,937	26,496	8	4	12	15·7	7·9	23·6	200	...	...	12	8	1	3	24	...	...	23·6	15·7	1·9	5·9	47·1	43·2	13	11	49·9	44·2	113
	Uttarpara	2,046	2,464	5,510	3	2	5	28·3	18·8	47·2	150	...	...	2	...	...	2	4	...	...	15·8	...	...	18·8	37·7	28·3	1	3	17·1	63·3	27
Howrah	Howrah	53,153	37,660	90,813	21	22	43	12·0	12·6	24·6	95	...	...	15	10	1	5	31	...	...	8·6	5·7	·6	2·9	17·8	18·3	18	13	17·6	18·0	98
	Bali	7,836	6,979	14,815	4	4	8	14·0	14·0	28·1	100	...	1	6	...	...	..	7	...	3·5	21·1	...	...	...	24·6	28·1	2	4	19·9	29·8	68
Nuddea	Krishnagar ...	13,363	14,214	27,477	5	5	10	9·4	9·4	18·9	100	...	...	...	...	..	4	4	..	..	...	...	...	7·6	7·6	5·7	2	2	7·9	7·3	106
	Ranaghat	4,028	4,655	8,683	3	...	3	18·0	...	18·0	No female birth.	...	..	3	...	..	1	4	..	..	18·0	...	..	6·0	24·0	12·0	1	3	12·9	38·5	38
	Santipore	13,708	15,979	29,687	3	2	5	5·3	3·5	8·8	150	..	...	1	...	.	1	2	...	...	1·7	...	...	1·7	3·5	3·5	...	2	...	6·5	No male death.
Jessore	Jessore	4,850	3,665	8,495	...	1	1	...	6·1	6·1	No male birth.	...	...	...	...	...	...	...	...	..	...	...	...	...	...	10·6	...	...	...	...	...
Rajshahye	Rampore Beauleah	10,766	9,025	19,791	7	5	12	13·4	13·1	31·5	140	..	...	10	3	1	2	16	...	...	26·3	7·9	2·6	5·2	42·0	41·7	8	8	38·6	46·1	83
Darjiling	Darjiling	4,579	2,439	7,018	6	1	7	44·5	7·4	51·9	600	..	..	7	...	..	...	7	...	...	51·9	...	...	...	51·9	44·5	3	4	34·1	85·3	40
Dacca	Dacca	43,782	37,379	80,161	21	16	37	13·6	10·4	23·0	131	2	...	8	3	...	15	28	1·3	...	5·2	1·9	...	8·2	24·8	37·3	5	1	34·2	10·5	325
	Narainganj ...	7,695	4,956	12,561	5	1	6	20·7	4·1	24·8	500	...	...	2	2	...	2	6	..	...	8·2	8·2	...	8·2	24·8	37·3	5	1	34·2	10·5	325
Chittagong	Chittagong ...	13,340	8,790	22,130	1	3	4	2·3	7·0	9·4	33	...	...	2	4	...	...	6	...	...	4·7	9·4	...	...	14·1	16·4	6	...	23·4	...	No female death.
Tipperah	Comillah	8,153	5,353	13,506	5	2	7	19·3	7·7	27·0	250	...	..	1	2	...	...	3	...	...	3·8	7·7	...	...	11·6	15·4	2	1	12·8	9·7	132
Patna	Patna City ...	78,762	81,475	160,237	23	21	44	7·5	6·8	14·3	109	14	...	17	6	...	12	49	4·5	...	5·5	1·9	...	3·9	15·9	20·4	31	18	20·5	11·5	178
Gya	Gya	38,290	37,831	76,121	30	28	58	20·5	19·1	39·6	107	13	...	51	6	...	18	88	8·9	...	34·8	4·1	...	12·3	60·1	54·0	52	36	70·6	49·5	148
Shahabad	Arrah	20,960	22,505	43,465	8	9	17	9·6	10·7	20·3	88	1	...	8	...	...	1	10	1·2	...	9·6	...	...	1·2	12·0	23·9	8	2	19·8	4·8	430
Monufferpore	Monufferpore ...	23,084	19,658	42,742	11	7	18	13·4	8·5	21·9	157	11	...	10	6	...	5	32	13·4	...	12·1	7·3	...	6·1	38·9	24·3	21	11	47·3	29·1	162
Durbhanga	Durbhanga ...	33,774	32,322	66,096	32	15	47	25·2	11·8	37·0	213	3	...	12	6	...	5	26	2·4	...	9·4	4·7	...	3·9	20·5	26·7	14	12	21·6	19·3	112
Saran	Chupra	25,116	26,554	51,670	19	21	40	19·1	21·1	40·3	90	1	...	4	6	...	9	20	1·0	...	4·0	6·0	...	9·1	20·1	27·2	10	10	20·7	19·6	105
Bhagulpore	Bhagulpore ...	29,640	27,813	57,453	11	7	18	10·0	6·3	16·3	157	...	..	13	3	...	3	19	...	...	11·8	2·7	...	2·7	17·2	14·5	10	9	17·5	16·8	104
Monghyr	Monghyr	28,154	29,366	57,520	15	26	41	13·6	23·5	37·1	57	...	...	9	1	...	14	24	...	...	8·1	·9	...	12·7	21·7	29·8	9	15	16·6	26·6	62
Purneah	Purneah	8,463	6,553	15,016	2	...	2	6·9	...	6·9	No female birth.	...	...	2	...	...	...	2	...	...	6·9	...	...	...	6·9	17·3	1	1	6·1	7·9	77
Poori	Poori	12,247	11,537	24,784	6	2	8	13·6	4·2	16·8	300	...	...	4	4	...	4	12	...	...	8·4	8·4	...	8·4	25·9	42·0	4	8	15·7	36·1	43
					273	237	510	13·4	11·6	25·0	115	45	1	224	75	3	117	465	2·2	·04	11·0	3·7	·1	5·7	22·8	25·3	258	207	24·3	21·1	115

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO— Class. Deaths among— Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Ratio per 1,000 of Population per annum. Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.
Burdwan	Burdwan	...	11	4	...	...	...	24·2	20·3	...	...
Midnapore	Midnapore	...	7	1	...	...	...	14·0	7·2	.	...
Hughli	Hughli and Chinsurah	...	15	3	...	...	...	30·9	25·3	...	...
Serampore	Serampore	...	24	...	...	...	...	49·5	...	...	...
	Utterpara	...	3	1	...	...	...	29·3	282·6	..	...
Howrah	Howrah	...	25	6	...	...	...	19 1	15·2	...	...
	Bali	...	7	...	...	...	...	27·1	...	...	...
Nuddea	Krishnagar	...	...	4	...	...	...	...	25·1	...	...
	Ranaghat	...	3	1	...	...	...	21·3	33·1	..	...
	Santipore	...	2	...	...	...	...	5·0	...	...	...
Jessore	Jessore	...	...	...	...	...	...	...	...	...	...
Rajshahye	Rampore Beauleah	...	5	11	...	...	...	26·2	55·3	...	...
Darjiling	Darjiling	...	7	...	...	...	...	79·2	...	...	...
Dacca	Dacca	...	13	25	...	...	...	16·8	19·8	...	...
	Narainganj	...	5	1	...	...	...	41·1	8·4	...	...
Chittagong	Chittagong	...	2	4	...	...	...	17·9	13 6	...	...
Tipperah	Comillah	...	1	2	...	...	...	8·7	14·1	...	...
Patna	Patna City	...	42	7	...	...	...	18·4	8·9	...	...
Gya	Gya	...	75	13	...	...	...	66·0	42·0	...	...
Shahabad	Arrah	...	7	3	...	...	...	11·7	12·6	...	...
Mozufferpore	Mozufferpore	...	23	9	...	...	...	39 8	37·5	...	...
Durbhanga	Durbhanga	...	16	10	...	...	...	17 2	29·6	...	...
Saran	Chupra	...	14	6	...	...	...	18·4	26·2	...	...
Bhagulpore	Bhagulpore	...	12	7	...	...	...	15·7	21·1	...	...
Monghyr	Monghyr	...	14	10	...	...	...	16·3	41·4	...	...
Purneah	Purneah	...	3	...	...	...	...	11·3	...	...	...
Pooree	Pooree	...	12	...	...	...	...	25·4	...	...	...
	TOTAL	...	347	118	...	...	...	23·8	20·8	...	...

MORTALITY ACCORDING TO— Age. Deaths. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
	3	2	2	1	1	...	1	1	3	1
	3	1	...	...	...	2	...	1	...	1
	3	2	...	...	...	1	4	3	1	4
	...	4	3	1	3	3	4	2	1	3
	...	...	...	...	1	...	...	2	...	1
	5	2	2	...	1	3	2	4	4	8
	...	2	...	2	...	...	...	...	...	3
	2	...	...	...	...	...	...	...	2	2
	1	1	...	...	...	...	...	...	...	1
	1	...	...	...	...	...	...	...	...	...
	..	...	...	...	...	...	...	...	...	...
	1	1	3	...	1	2	4	3	...	1
	1	2	...	...	...	...	1	1	2	...
	1	...	...	...	...	4	5	1	3	4
	8	2	...	1	...	...	...	1	1	1
	...	...	...	...	...	3	...	1	1	...
	1	...	...	...	...	2	...	...	2	...
	...	...	...	...	...	...	...	...	...	2
	4	3	3	3	4	9	8	2	4	9
	12	8	2	3	3	10	10	7	7	26
	2	...	2	1	...	2	1	1	...	1
	11	2	8	...	1	4	3	...	1	2
	5	6	3	2	1	4	1	2	...	2
	4	...	2	1	2	...	2	2	1	6
	6	3	2	...	1	...	...	...	4	3
	10	...	2	1	1	1	2	2	1	4
	...	...	1	1	...	...	...	...	...	...
	3	1	...	...	1	2	1	2	1	1
	86	42	35	17	21	52	49	39	33	86

MORTALITY ACCORDING TO— Ratio per 1,000 of Population per annum. Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards
236·4	46·1	44·6	20·7	16·6	...	7·5	11·8	63·5	35·1
210·0	22·1	...	...	...	14·2	...	14·0	...	28·4
194·3	46·9	...	...	...	8·4	36·4	37·4	20·0	100·3
...	115·2	62·1	23·4	71·5	29·0	41·8	30·8	27·2	112·1
...	...	...	...	119·2	...	...	148·4	...	200·0
126·0	18·8	16·5	...	7·1	6·9	5·4	17 7	37·9	110·9
...	104·1	...	87·6	...	...	...	...	...	213·1
209·7	...	...	...	...	...	...	...	143·6	66·2
251·2	65·4	...	...	...	...	...	...	...	...
61·5	...	...	...	...	...	...	...	...	26·5
...	...	...	...	...	...	...	...	...	...
128·1	36·7	75·0	...	31·3	25·0	57·7	63·6	...	54·0
429·8	161·7	...	...	...	...	56·3	75·1	426·2	...
219·2	14·1	...	6·5	...	13·6	22·3	6·2	32·9	37·3
...	...	...	...	...	58·4	...	37 3	66·5	79·8
92·4	...	...	...	...	22·5	...	46·1	47·9	...
...	...	...	...	...	...	...	...	64·9	153·4
45·3	10·7	9·3	10·8	18·6	16·2	17·9	5·5	14·7	33·9
348·6	65·5	14·9	23·2	29·8	35·3	40 8	37·2	55·4	262·7
80·7	...	20·3	11·8	...	13·2	8·1	11 1	...	18·0
529·0	25·7	92·4	...	17·2	24·2	23·4	...	16·0	42·7
167·0	41·0	19·9	18·7	12·9	15·6	4·7	14·0	..	32·6
147·4	...	17·5	10·4	30 0	...	13·4	17·1	12·6	91·7
261·3	28·8	17·7	...	12·4	...	...	...	48·8	43·3
359·2	...	14·7	9·1	13·8	5 0	11·7	16·3	13·1	58·0
...	...	32·9	43·5	...	...	...	...	...	...
514·9	28·9	...	...	28 0	19·7	12·8	31·3	23·3	28·8
176·2	23 5	16·5	9 2	13·5	12·8	14·5	16·2	25·5	68·0

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 8th November 18

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of July 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. / MACHGONG ;, 4 ,,

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
13	1. Grain ...	96	8	104	3,375	104	3,375	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
3	3. Oilseeds ...	16	.....	16	1,350	16	1,350	
2	4. Salt ...	25	.....	25	3,500	25	3,500	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
33	7. Building materials	464	...	464	410	464	410	
13	8. Miscellaneous ...	47	215	262	4,550	262	4,550	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
64	12. Total ...	648	223	871	13,185	871	13,185	
111 & 21 rafts.	13. Total of same month last year.	153 /	1,280 & 19,112 No.	1,433 & 19,112 No.	31,325	1,426 & 19,112 No.	30,225	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	56	8	64
15. Total number of boats plying passenger No.	2	4	6
15½. Do. empty boats ,,	31	40	71
16. Total registered tonnage, cargo, private Tons	648	223	871
17. Total registered tonnage, passenger Tons	13	178	191
18. Ton-mileage ...	18,184	6,271	24,455
19. Estimated value of cargo Rs.	9,005	4,180	13,185
20. Number of passengers ...	6	1,514	1,520
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs ,,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats ,,	123-11-0	182-10-0	306-5-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	... ..	0-0-2·40
28. Total tollage on rafts per 100 cubic feet Rs	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	306 5 0
Total tollage of same month last year ...	656 14 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ..	78 1 0
2. Tollage per month ...	306 5 0
3. Total ...	384 6 0
4. Amount credited in the accounts of the month ...	337 9 0
5. Balance due at the end of the month ...	46 13 0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
187	1. Grain ...	717	1,476	2,193	1,30,480	2,193	1,30,480	
4	2. Cotton ...	110	.....	110	30,000	110	30,000	
27	3. Oilseeds ...	.....	802	802	1,01,700	802	1,01,700	
21	4. Salt ...	66	16	82	6,770	82	6,770	
...	5. Piece-goods ...	... .	.....	.....	...	.....	...	
1	6. Metal	6	....	6	1,500	6	1,500	
33	7. Building materials	3	407	410	7,370	410	7,370	
113	8. Miscellaneous ...	532	495	1,027	1,81,550	1,027	1,81,550	
15	9. Fuel ...	83	...	83	220	83	220	
6 rafts	10. Timber ...	.....	330 c. ft.	330 c. ft.	85	330 c. ft.	85	
1 „	11. Bamboos ..	.....	25 „	25 „	5	25 „	5	
401 & 7 rafts	12. Total ...	1,517	3,196 & 355 c. ft.	4,713 & 355 c. ft.	4,59,680	4,713 & 355 c. ft.	4,59,680	
326 & 4 rafts.	13. Total of same month last year.	1,546	1,750 & 9,762 No.	3,296 & 9,762 No.	3,65,190	3,235 & 9,762 No.	3,65,110	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	192	209	401
15. Total number of boats plying passenger No.	37	57	94
15½. Ditto empty boats „	241	149	390
16. Total registered tonnage, cargo, private Tons	2,769	5,036	7,805
16½. Ditto Government ditto „	... ..	.....	.....
17. Total registered tonnage, passenger Tons	1,813	1,748	3,561
17½. Ditto empty boats „	2,615	749	3,364
18. Ton-mileage ...	2,75,178	3,37,651	6,12,829
19. Estimated value of cargo Rs.	1,96,730	2,62,860	4,59,590
20. Number of passengers ...	1,272	3,736	5,008
21. Rafts, bamboos C. ft.	.....	25	25
22. Do., timbers „	... ..	330	330
23. Estimated value of rafts Rs.	...	90	90
24. Tollage on boats „	2,516-2-11	3,308-3-8	5,824-6-7
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	6-15-6	6-15-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·8
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-15-5

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	5,831	6	1
Total tollage of same month last year ...	5,142	8	7

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	3,539	12	11
2. Tollage per month ...	5,831	6	1
3. Total ...	9,371	3	0
4. Amount credited in the accounts of the month ...	4,092	8	2
5. Balance due at the end of the month ...	5,278	10	10

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
139	1. Grain ...	538	4	542	25,000	542	25,000	
1	2. Cotton ...	.....	4	4	900	4	900	
15	3. Oilseeds ...	100	... .	100	8,200	100	8,200	
64	4. Salt ...	.....	151	151	12,370	151	12,370	
...	5. Piece-goods ..	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
13	7. Building materials	48	54	102	390	48	3 0	
49	8. Miscellaneous ...	66	83	149	20,620	149	20,620	
4	9. Fuel ...	29	.....	29	80	29	80	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
285	12. Total ...	781	296	1,077	67,560	1,023	67,510	
305 & 6 rafts.	13. Total of same month last year ...	917 & 20,025 No.	226	1,143 & 20,025 No.	71,690	1,143 & 20,025 No.	71,690	

	Up.	Down	Total.
14. Total number of boats plying cargo No.	196	89	285
15. Total number of boats plying passenger No.	12	12	24
15½. Do. empty boats ,,	63	155	218
16. Total registered tonnage, cargo, private Tons	996	486	1,482
16½. Ditto Govt. stores ,,	.....	218	218
17. Total registered tonnage, passenger Tons	344	524	868
17½. Do. empty. boats ,,	298	732	1,030
18. Ton-mileage ...	66,778	48,918	1,15,696
19. Estimated value of cargo Rs	35,970	31,590	67,560
20. Number of passengers ...	323	611	934
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs ,,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats ,,	621-10-6	422-0-3	1,043-10-9
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-7
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,043 10 9
Total tollage of same month last year	883 8 5

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	295 11 3
2. Tollage per month ...	1,043 10 9
3. Total ...	1,339 6 0
4. Amount credited in the accounts of the month	898 11 6
5. Balance due at the end of the month ...	440 10 6

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
50	1. Grain ..	158	15	173	9,144	173	9,144	
...	2. Cotton ...	... ...	.....	.....	... ..	.....	...	
3	3. Oilseeds ..	... ...	22	22	1,687	22	1,687	
2	4. Salt ...	4	2	6	930	6	930	
5	5. Piece-goods ...	.....	2	2	960	2	960	
...	6. Metal ..	...	.....	...	.....	.....	.....	
2	7. Building materials	.....	7	7	100	7	100	
26	8. Miscellaneous ...	7	66	73	10,001	73	10,001	
2	9. Fuel ...	.. ...	2	2	3	2	3	
4 rafts	10. Timber ...	... ..	666 c. ft.	666 c. ft.	343	666 c. ft.	343	
...	11. Bamboos ..	.. ...	.....	.....	... ..	...	...	
90 & 4 rafts.	12. Total ...	169	116 666 c. ft.	285 666 c. ft.	23,168	285 666 c. ft.	23,168	
166 & 12 rafts.	13. Total of same month last year.	407	114½ 3,000 c. ft. 550 No.	521½ 3,006 c. ft. 550 No.	30,721	516½ 3,006 c. ft. 550 No.	30,693	

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	61	29	90
15. Total number of boats plying passenger No.	17	29	46
15½. Ditto empty boats „	51	52	103
16. Total registered tonnage, cargo and boats Tons	339	233	572
16½. Ditto Govt. ditto „	.....	.....	.....
17. Total registered tonnage, passenger Tons	353	421	774
17½. Ditto empty ditto „	188	126	314
18. Ton-mileage	7,684	18,891	26,575
19. Estimated value of cargo Rs.	11,356	11,469	22,825
20. Number of passengers ...	150	435	585
21. Rafts, bamboos C. ft	... ..	.....	.....
22. Do., bullahs „	.....	666	666
23. Estimated value of rafts Rs.	.....	343	343
24. Tollage on boats „	131-0-9	130-10-9	261-11-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	8-5-3	8-5-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·85
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-3-3

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	270 0 9
Total tollage of same month last year ...	210 7 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	16 1 3
2. Tollage per month ...	270 0 9
3. Total ...	286 2 0
4. Amount credited in the accounts of the month ...	281 8 3
5. Balance due at the end of the month ...	4 9 9

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
36	1. Grain ...	98	10	108	6,294	108	6,294	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
4	4. Salt ...	3	8	11	1,360	11	1,360	
1	5. Piece-goods ...	.....	3	3	1 070	3	1,070	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
5	7. Building materials	.....	24	24	405	.....	.....	
7	8. Miscellaneous ...	.....	50	50	5,664	50	5,664	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
53	12. Total ...	101	95	196	14,793	172	14,388	
78	13. Total of same month last year ...	193	75	268	16,888	246	16,561	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	35	18	53
15. Total number of boats plying passenger No.	16	29	45
15½. Ditto empty ditto ,,	45	41	86
16. Total registered tonnage, cargo and boat Tons	204	146	350
16½. Ditto Govt. ditto ,,	.....	49	49
17. Total registered tonnage, passenger Tons	362	422	784
17½. Ditto empty ditto ,,	195	90	285
18. Ton-mileage ...	12,800	11,771	24,571
19. Estimated value of cargo Rs.	5,850	8,943	14,793
20. Number of passengers ...	184½	763	947½
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs ,,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats ,,	110-9-6	116-14-6	227-8-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·77
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	227 8 0
Total tollage of same month last year	78 15 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	—0 10 0
2. Tollage per month ...	227 8 0
3. Total ...	226 14 0
4. Amount credited in the accounts of the month ...	227 8 0
5. Balance due at the end of the month ...	—0 10 0

JAJPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
35	1. Grain ...	...	57	57	1,456	57	1,456	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
1	3. Oilseeds ...	.....	6	6	756	6	756	
...	4. Salt ...	.....	.....	.....	.....	.....	.....	
1	5. Piece-goods ...	.....	1	1	300	1	300	
...	6. Metal ...	.....	.....	.....	...	.....	.....	
...	7. Building materials	.....	.....	.....	.....	.....	.....	
8	8. Miscellaneous ...	7	23	30	5,187	30	5,187	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
1 raft.	10. Timber No. 214	.....	1,284 c. ft.	1,284 c. ft.	642	1,284 c. ft	642	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
45 & 1 raft.	12. Total ...	7	87 1,284 c. ft.	94 1,284 c. ft.	8,341	94 1,284 c.ft.	8,341	
15 & 13 rafts.	13. Total of same month last year.	8½	15 2,052 c. ft. 100 No.	23½ 2,652 c. ft. 100 No.	1,202	23½ 2,652 100 No.	1,202	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	4	41	45
15. Total number of boats plying passenger No.	10	12	22
15½. Ditto empty ditto „	39	5	44
16. Total registered tonnage, cargo and boat Tons	14	176	190
16½. Ditto Govt. ditto „	.....	.....	... ..
17. Total registered tonnage, passenger Tons	72	99	171
17½. Ditto empty ditto „	100	10	110
18. Ton-mileage ...	116	1,700	1,816
19. Estimated value of cargo Rs.	1,690	6,009	7,699
20. Number of passengers ...	26	177	203
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs „	.....	1,284	1,284
23. Estimated value of rafts Rs.	.....	642	642
24. Tollage on boats „	9-15-0	19-12-6	29-11-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	2-15-0	2-15-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·02
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-8

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	32 10 6
Total tollage of same month last year ..	13 11 8

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	.. ...
2. Tollage per month ...	32 10 6
3. Total ...	32 10 6
4. Amount credited in the accounts of the month ...	30 13 6
5. Balance due at the end of the month ...	1 13 0

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,055	1. Grain ...	6,005	845	6,850	4,31,915	6,850	4,31,915	
3	2. Cotton ...	...	4	4	1,754	4	1,754	
50	3. Oilseeds ...	146	249	395	42,837	395	42,837	
181	4. Salt ...	.....	1,554	1,554	1,54,274	1,554	1,54,274	
13	5. Piece-goods ...	27	42	69	1,70,720	69	1,70,720	
28	6. Metal	88	149	237	1,82,545	237	1,82,545	
59	7. Building materials	611	39	650	2,720	650	2,720	
535	8. Miscellaneous ...	931	1,631	2,562	6,60,766	2,562	6,60,766	
57	9. Fuel ...	79	410	489	4,441	489	4,441	
14 rafts	10. Timber ...	3,503 c. ft.	231 c. ft.	3,734 c. ft.	1,907	3,734 c. ft.	1,907	
3 „	11. Bamboos ...	600 „	12 „	612 „	39	612 „	39	
1,981 & 17 rafts.	12. Total ...	7,887 & 4,103 c. ft.	4,923 & 243 c. ft.	12,810 & 4,346 c. ft	16,53,918	12,810 & 4,346 c. ft.	16,53,918	
2,342 & 8 rafts.	13. Total of same month last year.	9,229 & 3,242 c. ft.	4,073	13,302 & 3,242 c. ft.	13,14,827	13,302 & 3, 42 c. ft.	13,14,827	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,283	698	1,981
15. Total number of boats plying passenger No.	680	785	1,465
15½. Ditto empty „	343	787	1,130
16. Total registered tonnage, cargo Tons	19,807	11,336	31,143
17. Total registered tonnage, passenger Tons	4,429	4,014	8,443
17½. Ditto empty „	1,562	3,831	5,393
18. Ton-mileage ..	476.482	280,444	756,926
19. Estimated value of cargo Rs.	8,01,632	8,50,340	16,51,972
20. Number of passengers ...	9,969	10,237	20,206
21. Rafts, bamboos C. ft.	600	12	612
22. Do., bullahs „	3,503	231	3,734
23. Estimated value of rafts Rs.	1,423	523	1,946
24. Tollage on boats „	7,515-9-3	4,683-7-6	12,199-0-9
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	39-14-0	3-14-0	43-12-0
27. Total tollage on boats per ton-mile Pie	.....	.....	0-0-3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-0-0

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	12,242	12	9
Total tollage of same month last year ...	14,861	3	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	7,216	0	1
2. Tollage per month ...	12,242	12	9
3. Total ...	19,458	12	10
Deduct remission* ...	2,241	8	0
	17,217	4	10
4. Amount paid into treasury during the month ...	12,295	11	0
5. Balance due at the end of the month ...	4,921	9	1

* Remission for half tolls on Ghattal steamers ... Rs. 2,199 0 0
Ditto for demurrage 42 8 0
Total ... 2,241 8 0

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
396	1. Grain ...	2,947	1	2,948	1,38,072	2,948	1,38,072	
...	2. Cotton ...	...	... ..	.....	.....	.....	...	
3	3. Oilseeds ..	.....	9	9	1,350	9	1,350	
57	4 Salt ...	... ..	643	643	69,675	643	69,675	
4	5. Piece-goods ...	... ..	12	12	8,750	12	8,750	
...	6. Metal ..	.....	.....	.....	.....	... .	.....	
3	7. Building materials	... ..	8	8	74	8	74	
658	8. Miscellaneous ...	517	622	1,139	1,12,259	1,139	1,12,259	
4	9. Fuel ...	3	39	42	298	42	298	
...	10. Timber ...	.....	.....	.....	.....	.. ...	.....	
...	11. Bamboos ...	.....	.. ...	... ..	.....	.....	.....	
1,125	12. Total ,.	3,467	1,334	4,801	3,30,478	4,801	3,30,478	
1,249	13. Total of same month last year.	3,353	1,273	4,626	3,04,572	4,590	3,04,322	

		Up.	Down.	Total.
14.	Total number of boats plying cargo No.	548	577	1,125
15.	Total number of boats plying passenger No.	48	33	81
16.	Total registered tonnage, cargo Tons	6,940	5,135	12,075
17.	Total registered tonnage, passenger Tons	653	421	1,074
18.	Ton-mileage	1,30,094	1,03,963	2,34,057
19.	Estimated value of cargo Rs.	1,49,129	1,81,349	3,30,478
20.	Number of passengers ...	2,749	1,089	3,838
21.	Rafts, bamboos C. ft.	.....	.....	.. ...
22.	Do., bullahs ,,	.....	.....	.....
23.	Estimated value of rafts Rs.	.....	.....	.....
24.	Tollage on boats ,,	2,278-6-9	1,819-7-0	4,097-13-9
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts ,,	.....	.....	.....
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	... ..

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	4,097	13	9
Total tollage of same month last year	4,733	15	9

Memorandum of Tollage.

		Rs.	A.	P.
1.	Balance not recovered on the 1st of the month ...	1,132	13	8
2.	Tollage per month ...	4,097	13	9
3.	Total ...	5,230	11	0
4.	Amount paid into treasury during the month ...	3,065	5	9
5.	Balance due at the end of the month	2,165	5	3

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
33	1. Grain ...	.....	440	440	31,865	440	31,865	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
55	3. Oilseeds ...	1	817	818	91,220	818	91,220	
1	4. Salt ...	69	.....	69	7,158	69	7,158	
28	5. Piece-goods ...	158	8	166	17,650	159	17,200	
1	6. Metal ...	15	1	16	2,835	16	2,835	
9	7. Building materials	20	60	80	1,005	70	715	
48	8. Miscellaneous ...	231	156	387	55,194	375	54,748	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
2	10. Timber ...	20	.....	20	1,006	.....	.....	
		.....	1	1	25	1	25	
1	11. Bamboos ...	.....	9	9	150	9	150	
178	12. Total ...	514	1,492	2,006	2,08,108	1,957	2,05,916	
183	13. Total of same month last year ...	603	1,437	2,040	2,01,213	1,941	1,98,141	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	63	115	178
15. Total number of boats plying passenger No.	5	7	12
15½. Ditto empty boats „	80	11	91
16. Total registered tonnage, cargo Tons	974	2,554	3,528
17. Total registered tonnage, passenger Tons	173	181	354
17*a*. Ditto empty boats „	382	50	432
18. Ton-mileage ...	82,119	1,66,943	2,49,062
19. Estimated value of cargo Rs.	46,396	1,61,687	2,08,083
20. Number of passengers ...	397½	436	833½
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs „	.....	100	100
23. Estimated value of rafts Rs.	.....	25	25
24. Tollage on boats „	672-4-3	1,720-12-9	2,393-1-0
25. Compounded tollage on boats Rs.	22-1-0	22-1-0	44-2-0
26. Tollage on rafts „	.....	0-2-0	0-2-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·8
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-2-0

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	2,437	5	0
Total tollage of same month last year ...	2,515	7	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	297	11	6
2. Tollage per month ...	2,437	5	0
3. Total ...	2,735	0	6
4. Amount credited in the accounts of the month	2,539	14	0
5. Balance due at the end of the month ...	195	2	6

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
28	1. Grain ...	35	350	385	26,788	385	26,788	
1	2. Cotton ...	4	.....	4	1,556	4	1,556	
6	3. Oilseeds ...	.....	57	57	4,607	57	4,607	
19	4. Salt ...	187	.....	187	20,029	187	20,029	
1	5. Piece-goods ...	13	.....	13	19,900	13	19,900	
...	6. Metal ...	1	3	4	40,550	4	40,550	
15	7. Building materials	28	93	121	899	64	517	
35	8. Miscellaneous ...	39	264	303	22,154	278	22,133	
14	9. Fuel ...	10	198	208	3,274	198	2,774	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Firewood ... / Bamboos ...	.....	26	26	62	26	62	
		.....	.....	.....	.....	.....	.....	
119	12. Total ...	317	991	1,308	1,39,819	1,216	1,38,916	
200	13. Total of same month last year.	501	1,586	2,087	1,38,205	1,902	1,37,401	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	39	80	119
15. Total number of boats plying passenger No.	4	3	7
15½. Total number of empty boats No.	66	13	79
16. Total registered tonnage, cargo Tons	616	1,746	2,362
17. Total registered tonnage, passenger Tons	93	80	173
17½. Total registered tonnage, empty Tons	314	58	372
18. Ton-mileage ...	42,896	88,407	131,303
19. Estimated value of cargo Rs.	49,979	89,778	1,39,757
20. Number of passengers ...	993	1,057	2,050
21. Rafts, bamboos C.ft.	.....	.....	.....
22. Do., bullahs „	.....	.....	.....
22½. Do., firewood „	.....	2,000	2,000
23. Estimated value of rafts Rs.	.....	62	62
24. Tollage on boats „	219-0-9	673-13-6	892-14-3
25. Compounded tollage on boats Rs.	228-0-0	228-0-0	456-0-0
26. Tollage on rafts „	.....	1-2-0	1-2-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·97
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-0-10

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,350 0 3
Total tollage of same month last year ...	1,605 0 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	61 7 3
2. Tollage per month ...	1,350 0 3
3. Total ...	1,411 7 6
4. Amount credited in the accounts of the month	1,365 15 0
5. Balance due at the end of the month ...	45 8 6

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
33	1. Grain ...	.....	600	600	36,474	600	36,474	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
2	3. Oilseeds ...	.....	35	35	2,000	35	2,000	
...	4. Salt ...	2	.....	2	308	2	308	
...	5. Piece-goods ...	3	.....	3	3,940	3	3,940	
...	6. Metal ...	1	.....	1	1,160	1	1,160	
6	7. Building materials	.....	119	119	825	.....	.....	
5	8. Miscellaneous ...	10	121	131	10,347	131	10,347	
...	9 Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
46	12. Total ...	16	875	891	55,054	772	54,229	
61	13. Total of same month last year.	204	798	1,002	63,621	780	62,168	

		Up.	Down.	Total.
14. Total number of boats plying cargo	No.	.....	46	46
15. Total number of boats plying passenger	No.	10	9	19
15½. Ditto empty	,,	27	7	34
16. Total registered tonnage, cargo	Tons	16	1,152	1,168
17. Total registered tonnage, passenger	Tons	270	243	513
17½. Ditto empty ditto	,,	134	32	166
18. Ton-mileage	...	4,777	24,734	29,511
19. Estimated value of cargo	Rs.	8,225	46,829	55,054
20. Number of passengers	...	740	708	1,448
21. Rafts, bamboos	C. ft.	.....	.....	.....
22. Do., bullahs	,,	.....	.....	.....
23. Estimated value of rafts	Rs.	.....	.....	.....
24. Tollage on boats	,,	24-13-9	281-6-9	306 4 6
25. Compounded tollage on boats	Rs.	107-0-0	107-0-0	214-0-0
26. Tollage on rafts	,,	.....	.....	.....
27. Total tollage on boats per ton-	Rs.	.....	.....	0-0-3·38
28. Total tollage on rafts per ton-	Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	520	4	6
Total tollage of same month last year ...	502	15	9

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	25	10	0
2. Tollage per month ...	520	4	6
3. Total ...	545	14	6
4. Amount credited in the accounts of the month ...	544	11	0
5. Balance due at the end of the month ...	1	3	6

ABSTRACT FOR THE MONTH OF JULY 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1890-91.		Traffic, 1889-90.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Baldunda Canal System ...	306 5 0	1,362 4 2	656 14 3	2,021 5 10	
Kendrapara Canal System	5,831 6 1	18,797 5 3	5,142 8 7	14,095 6 2	
High Level, Range I ...	1,043 10 9	2,840 14 0	883 8 5	2,073 6 2	
Ditto „ II ...	270 0 9	1,135 1 9	210 7 9	1,103 12 3	
Ditto „ III ...	227 8 0	822 14 3	78 15 0	524 12 9	
Rajepore Canal ...	32 10 6	69 6 4	13 11 8	30 0 0	
Total Orissa Circle ...	7,711 9 1	25,027 13 9	6,986 1 8	19,848 11 2	
South-Western Circle.					
Midnapore Canal ...	12,242 12 9	42,565 7 3	14,861 3 9	52,760 10 9	
Hidgellee Tidal Canal ...	4,097 13 9	9,048 9 9	4,733 15 9	20,622 0 3	
Total South-Western Circle	16,340 10 6	51,614 1 0	19,595 3 6	73,382 11 0	
Sone Circle.					
Patna Canal System ...	2,437 5 0	9,159 5 2	2,515 7 3	10,967 10 2	
Arrah ditto ...	1,350 0 3	7,529 14 6	1,605 0 3	6,931 14 5	
Buxar ditto ...	520 4 6	3,420 6 6	502 15 9	2,793 5 8	
Total Sone Circle ...	4,307 9 9	20,109 10 2	4,623 7 3	20,692 14 3	
Grand Total ...	28,359 13 4	96,751 8 11	31,204 12 5	1,13,924 4 5	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1890-91.						Traffic, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level	1,396	759	1,649 2 10	3,132	3,720	3,630 6 3	1,181	644	1,157 9 2	2,139	3,296	2,356 12 6
Total Orissa Circle ...	1,396	759	1,649 2 10	3,132	3,720	3,630 6 3	1,181	644	1,157 9 2	2,139	3,296	2,356 12 6

TOTAL NAVIGATION RECEIPTS.

Canal.	Earnings, 1890-91.		Earnings, 1889-90.		Remarks.
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	9,360 11 11	28,658 4 0	8,143 10 10	22,205 7 8	
Midnapore Canal ...	12,242 12 9	42,565 7 3	14,861 3 9	52,760 10 9	
Hidgellee Tidal Canal ...	4,097 13 9	9,048 9 9	4,733 15 9	20,622 0 3	
Sone Canals ...	4,307 9 9	20,109 10 2	4,623 7 3	20,692 14 3	
Total ...	30,009 0 2	1,00,381 15 2	32,362 5 7	1,16,281 0 11	

Calcutta,
The 10th November 1890.

G. A. G. Shawe,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate return of traffic for the week ending Saturday, the 18th October 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 18th October 1890.			Week ending Saturday, the 19th October 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	307	58,860	957	309	63,310	957
Jute	184	99,410	1,812	222	1,90,800	2,774
Firewood	91	62,625	794	174	90,100	1,339
Other articles	1,116	3,00,140	4,361	919	2,02,485	3,078
Total ...	1,698	5,21,035	7,924	1,624	5,46,695	8,148

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 25th October 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 25th October 1890.			Week ending Saturday, the 26th October 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	338	57,000	884	240	59,700	931
Jute	361	2,11,930	3,776	205	94,775	1,662
Firewood	182	95,075	1,348	138	51,200	803
Other articles	850	1,91,425	3,046	961	2,11,555	2,952
Total ...	1,731	5,55,430	9,054	1,544	4,17,230	6,348

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 1st November 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 1st November 1890.			Week ending Saturday, the 2nd November 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	419	55,060	906	184	26,950	408
Jute	345	1,78,610	3,227	193	85,350	1,558
Firewood	165	93,925	1,341	126	45,450	639
Other articles	1,228	2,57,100	3,562	1,196	2,89,920	4,103
Total ...	2,157	5,84,095	9,046	1,699	4,47,670	6,758

[REGISTERED No. 29.]

No. 47 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, NOVEMBER 19, 1890.

OFFICIAL PAPERS.

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RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE DACCA DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Darjeeling, the 11th November, 1890.

RESOLUTION.

READ—

The General Administration Report of the Dacca Division for the year 1889-90.

The report is submitted by Mr. Power, who held charge of the Division for only the two last days of the year, and is therefore chiefly based on the remarks made by the District Officers, one of whom, however, took charge in the last month of the year, while another took charge after its close. The Commissionership was held for nearly the first nine months of the year by Mr. Worsley, and thereafter for three months by Mr. Clay.

2. The record of touring and inspection done by all officers, except the District Officer of Furreedpore, was exceptionally good. The Commissioner's tour extended to 104 days, the Collectors of Backergunge and Mymensingh were each out for 100 days, while the Collector of Dacca was out for 96 days. In Furreedpore changes of officers and sickness combined to reduce the touring done to 60 days. Of the 12 Subdivisional Officers, four performed tours of over 100 days, and those of the others were of sufficient duration. All the district offices and treasuries, and nine out of the twelve subdivisional offices and treasuries, were inspected by the Commissioner either during the year or immediately after its close. By the Collectors their own offices were inspected twice, seven of the subdivisional offices once, and five of the subdivisional offices twice.

3. The rainfall was plentiful, but in two districts, Dacca and Furreedpore, was so unevenly distributed as to reduce the outturn on the whole to less than eight annas or half an average crop. Backergunge throve on the misfortunes of its neighbours, and secured abnormally high prices for a full average crop. In Mymensingh also the crop, though not so good, is reported to have been quite an average one. In the two latter districts the condition of the people was naturally a very prosperous one, and it is said that the only classes which suffered were those with small fixed incomes. In Dacca and Furreedpore, however, some pressure is said to have been felt on account of the partial failure of the food crops. The health of the people was not good; fever and cholera were exceptionally prevalent, and on the whole it is said that the year was less healthy than any of the preceding quinquennial period.

4. Beyond the ordinary articles for domestic use made in every district, there is not much of importance manufactured in this Division. Such manufactures as there are, however, all showed an improvement over the previous year. The outturn of indigo in Goalundo increased from 83 to 101 maunds, of sugar in Furreedpore from 9,080 to 12,049 maunds, and the steam oil-mill established five years ago at Jhalokati in Backergunge produced 16,900 maunds of oil—an increase of 10 per cent. over the production of the previous year. The export trade in all articles except hides showed considerable expansion. The value of that from Naraingunge amounted to Rs. 1,14,89,150, against Rs. 1,01,61,683 in 1888-89. The trade of this place, it is said, has more than trebled since 1879-80, when Naraingunge was first declared to be a port, and has expanded by nearly 60 per cent. within the last five years. In Backergunge and Mymensingh, where the rice crops were good, the export was of course large; and in Dacca and Furreedpore jute has to a large extent supplanted rice, so that the latter is hardly exported at all from those districts. In Backergunge very little jute is grown, as the saline soil deteriorates the fibre: but in the three northern districts it is a peculiarly suitable crop, and is largely grown. This is due to the fact that the crop is an early one, and can therefore be exported by water before the khals have become impassable. There was a heavy crop of betel-nuts, and large quantities were exported to Calcutta and Burmah, while cocoanuts were as usual largely exported to Calcutta and to other districts.

5. The Commissioner remarks that trade is carried on chiefly by water in country boats and steamers, that there are hardly any carts, and that the amount of traffic carried on by the railway, though considerable in itself, is, comparatively speaking, small. Again, under the head of "Communications," he says—

"The improvement of water communication does not appear to have attracted much attention during the year. In low-lying districts like those of this division, road-making, involving as it does the construction of high embankments, is very expensive, and, as one Magistrate remarks, it would probably be very beneficial to the people if some portion of the money at the disposal of the Boards was expended in deepening or clearing the silt of the more important of the numerous khals and nullahs which intersect the division."

The question of roads *versus* khals is an extremely important one, and was discussed by Mr. Larminie (chiefly with reference to Backergunge) in his Annual Road Cess Report, published in page 1095 of the *Calcutta Gazette* for 9th June, 1886. Mr. Larminie was of opinion that at that time in the districts of Dacca, Mymensingh and Furreedpore roads were likely to prove of the greatest use to the public, but that in Backergunge money could more usefully be expended in improving the natural water communications.

6 The police are said to have worked fairly well during the year. The number of cognizable and non-cognizable cases is not given; but from the Inspector-General's report it appears that there was an increase in both classes of crime. The number of cases in which police enquiry was refused was 453 against 685 in the previous year. The largest number of refusals occurred in Mymensingh, where the police are numerically weakest in view of the area and population, and the smallest number (28), as in the previous year, in Furreedpore. False cases again showed an increase (695 against 660), but the results of the prosecutions were somewhat better, convictions being obtained in 27·7 per cent. of the cases as against 22·9, the percentage of the previous year.

7. The Land Revenue collections were on the whole satisfactory. The outstanding balance decreased from Rs. 3,39,124 to Rs. 2,95,014, and the per-

centage of total collections on total demand increased from 90·8 to 92·06, Furreedpore being the only district in which the percentage was below 90. There was a decrease in the outstanding balance on account of cesses in all districts except Furreedpore, but this was accompanied by an increase in the number of certificates filed from 9,819 to 10,821. There was a falling off in the Excise revenue, due mainly to the closing of outstills where the upset price was not paid, and to the abolition of the outstill system, which told heavily on the sales and reduced the advance collections paid in March. Under Stamps there was an increase of Rs. 58,031, the total revenue amounting to Rs. 6,20,538. The increase was general throughout the division. The Commissioner remarks :—

"This general increase is not traceable to any marked temporary cause, and may therefore be attributed to the growing artificiality of existence, *i.e.*, to what is usually called progress."

The income-tax worked much more smoothly. The demand increased from Rs. 2,55,800 to Rs. 2,72,008, while the outstanding balance at the close of the year decreased from Rs. 5,300 to Rs. 2,110, and the percentage of objections was reduced from 7·8 to 5·8. Although the tax may continue to be unpopular, the expressions of discontent have apparently somewhat diminished. The system of paying land revenue by postal and revenue money-orders continued to work well, and the amount remitted increased from Rs. 1,45,539 to Rs. 1,78,808.

8. As in previous years, full statistics are given regarding the progress of education in the division, but no explanation is offered of their more striking features. Thus under secondary education an increase of only 2·4 per cent. in the number of pupils is accompanied by an increase of 7 per cent. in the expenditure; while under lower primary a decrease of 2·1 per cent. in the number of scholars is accompanied by an increase of 3·8 per cent. in the expenditure, and under female schools, although there has been a decrease of 5·5 per cent. in the expenditure, the decrease in the number of scholars amounts to no less than 23·1 per cent. As there was also a reduction in the expenditure from municipal and local funds, these facts point, until explained, to the supposition that the results must to some extent be due to a want of efficient administration on the part of the municipalities and District Boards concerned. On the other hand, it is satisfactory to note the large increase of 10,321 scholars under "Private institutions for indigenous instruction," and His Honour observes with much pleasure that there is an increase in the number of Mahomedan boys attending every class of school, an improvement which is, however, accompanied by a decrease of over 53 per cent. in the number of Mahomedan pupils attending girls' schools and female schools. Two new colleges have been established at Barisal, viz., the Brojo Mohon Institution and the Raj Chandra College. In the Commissioner's report they are stated to have had respectively 21 and 12 students on the 31st March 1890. In the Director of Public Instruction's report, the numbers given are 61 and 27, and the average daily attendance is returned as 44 and 21. The discrepancy is remarkable and should be explained.

9. In paragraph 244 the Commissioner says that the management of the pounds by the District Boards has not as yet resulted in any marked improvement, and that the Magistrate is of opinion that systematic inspection by some responsible officer of the Boards is much to be desired. This source of revenue is believed to be capable of considerable expansion, and such an inspection as that suggested, which ought to be easily arranged without additional expense, would probably effect something in this direction for by an examination of the counterfoils the inspecting officer could readily ascertain from what distance cattle are usually brought to the pounds, and consequently what room there is for the establishment of new pounds, and he could probably also form a shrewd guess whether the rent realized for the pound was a fair one or not.

10. Regarding the zemindars, the Commissioner makes the following remarks:—

Dacca.

"Nawab Sir Abdul Ghani, K.C.S.I., Nawab Ahsanullah, Khan Bahadoor, and Rajah Rajendra Narayan Roy Bahadoor, have maintained their reputation as loyal subjects, peaceful landlords, and public benefactors. Of the other zemindars of this district,

Babu Srinath Roy of Bhagyakul deserves prominent mention for his public spirit in contributing a munificent donation of Rs. 30,000 in memory of his mother for the building and foundation of an eye-ward to be attached to the Mitford Hospital at Dacca.

Furreedpore. "The principal zemindars of this district are absentees. There was nothing in their conduct during the year deserving of special mention.

Backergunge. "The zemindars of this district, with the exception of Nawab Ahsanullah, have done nothing during the year to merit praise." On the contrary, it is stated that many of them, by their conduct in stirring up disturbances for their own ends, deserve severe censure.

Mymensingh. The Commissioner while noticing the absence this year of any special act of beneficence on the part of the Mymensingh zemindars reports that the Maharajah of Susung, Rajah Surja Kantha Acharjya Bahadoor of Mooktagacha, Babu Jogendra Kishore Roy Choudhuri of Ramgopalpore, Babu Brojendra Kishore Roy Choudhuri of Gouripore, Srimati Jahnobi Choudhurani and Srimati Bindu Bashini Choudhurani of Kagmare, Hafez Mahomed Aly Khan of Karotia, Babu Radha Bollabh Choudhuri of Sherepore, and Mir Abdul Huq of Sabinnagar, have maintained their reputation as liberal, peaceful, and law-abiding landlords.

11. The Lieutenant-Governor has much pleasure in acknowledging the good services rendered by Mr. Savage at Backergunge, Mr. Hare at Dacca, and Mr. R. C. Dutt at Mymensingh, which have been brought to his notice by the Commissioner. The Personal Assistant, Babu Okhoy Coomar Sen, is also favourably mentioned. Mr. Worsley was in charge of the Division during the greater part of the year under report, and deserves His Honour's thanks for his careful and judicious administration. The present Officiating Commissioner, Mr. Power, has done well during his tenure of office.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Govt. of Bengal.

LEPER ASYLUM COMMITTEE.

RESOLUTION.

MEDICAL.

Dated the 12th November 1890.

READ again the undermentioned papers—

(1). Government Resolution, Medical, dated 29th July 1890.
(2). Government Resolution, Medical, dated 16th September 1890.

MR. W. BANKS GWYTHER is appointed a member of the Committee formed to consider the question of providing Calcutta with a new, enlarged and improved Leper Asylum.

ORDER.—Ordered that a copy of the Resolution be forwarded to the Secretary to the Leper Asylum Committee for information, and to the Public Works Department of this Government for information and communication to Mr. W. Banks Gwyther.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,
Offg. Chief Secretary to the Govt. of Bengal.

RESOLUTION ON THE REPORT OF THE COMMITTEE FOR THE MANAGEMENT OF THE CALCUTTA ZOOLOGICAL GARDENS FOR THE YEAR 1889-90.

REVENUE DEPARTMENT—MISCELLANEOUS (F).

Dated Darjeeling, the 13th November 1890.

RESOLUTION.

READ—

The Report of the Committee for the Management of the Calcutta Zoological Gardens for the year 1889-90.

The accounts appended to this report show that the financial position of the Gardens requires the serious attention of the Committee. The receipts from private sources amounted to Rs. 18,126, the Government contribution was Rs. 19,504, making a total income of Rs. 37,630, while the expenditure was Rs. 46,285, leaving a deficit of Rs. 8,655. Of this Rs. 6,523 were spent on original works of construction; but, even excluding that sum, the cost of ordinary administration exceeded the income. The balance was reduced from Rs. 11,279 to Rs. 2,624.

The Lieutenant-Governor notices with satisfaction that a very useful tropical aviary was constructed during the year, which bears the name of the Nawab Bahadur of Moorshedabad in recognition of his large subscription to the Gardens of Rs. 10,000.

The number of visitors who paid entrance fees was 109,569 against 111,573 in the previous year; but this number was exclusive of a large number of students and children under eight years of age who were admitted free of charge. The most important additions made in the course of the year were a pair of adult African lions, two African leopards, one African caracal, and one hunting leopard presented by His Excellency the Viceroy; a pair of young Indian lions presented by the Nawab of Junagarh, Kattcywar, and two tigress cubs presented by Sir Steuart Bayley. One zebra was obtained by exchange from the Zoological Society's Gardens, London, and a pair of jaguars from Mr. Carl Hagenbeck of Hamburg. The birth of a pair of tiger cubs is mentioned as an unusual event during the year. Of the presentations made, there were 60 mammals, 34 birds, and 4 reptiles. The total number of presentations during the year was 98 as against 42 in the previous year, and is indicative of the interest taken by the public in the institution.

It is stated that the institution continued to maintain its popularity with the students and teachers of the various schools and colleges of Calcutta and its suburbs.

The thanks of the Lieutenant-Governor are due to the members of the Committee for their efficient management of the Gardens during the year.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

No. 297Mne., dated Calcutta, the 15th November 1890.

THE following Report of the 14th quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners of the Port of Calcutta, is published for general information.

W. B. BESTIC,
Under-Secretary to the Govt. of Bengal.

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

From—MAJOR A. D. MCARTHUR, R.E., and W. CONNAN, ESQ.,
To—The Secretary to the Government of Bengal, Public Works Department.

IN accordance with the orders of the Government of Bengal, communicated with letter No. 178T.—M. of the 21st ultimo (received on the 4th instant), we have the honour to report that the 14th quarterly inspection of the Kidderpore Dock Works was made on the 8th instant.

The usual tabular statement and the index plan showing the work done during the quarter ending 30th September 1890, and the total amount of work executed from the commencement, which has been prepared by the Superintending Engineer of the Dock Works, are already with Government. The present state of the various works under construction is reported in the following paragraphs.

Sixty feet Lock.—As reported in the last quarter, the work was almost completed, with the exception of the riverside revetment. Of the estimated quantity of masonry, viz. 2,229,490 c. feet, 98·1 per cent. was executed up to the end of the quarter, thus leaving only 1·9 per cent. remaining to be done.

Eighty feet Entrance.—With the exception of the riverside revetments, this work is completed; about 21·0 per cent. of excavation remains to be done.

Double Entrance to Dock No. 1—Is finished, including the swing-bridge which is open to traffic.

Tidal Basin.—Quay walls completed, with the exception of coping, of which 35·4 per cent. still remains: 5·3 per cent. of the masonry also remains to be done.

Graving Dock.—About 5 per cent. of the masonry remains to be done. The erection of the caissons has been commenced.

Government Graving Dock—Is almost finished, with the exception of 6·7 per cent. of the estimated quantity of masonry. The foundations of the engine and boiler houses, which serve both graving docks, have been got in, and the centrifugal pumps are being erected as the work proceeds.

Dock No. 1.—The quay wall was completed with the exception of the coping which was in progress. We regret to record that in the beginning of October, or shortly after the expiry of the quarter ending September, to which period the progress herein stated bears reference, a considerable length of the walls of this Dock suddenly showed signs of failure. We understand that the matter has already been reported to Government, and that a more detailed report is in course of preparation, which will be submitted in due course. As far as we could note during our inspection, the following is the present condition of the damaged work, the same being roughly indicated on the diagram accompanying the progress report and submitted herewith.

Movement of the long straight length of the east wall of the Dock has taken place over 2,050 feet, commencing about 50 feet from the angle of the short berth at the north end and extending to the angle of the wall at the south end. The displacement at the extremities of this length is shown by slight cracks in the face of the masonry extending through the wall and by longitudinal cracks along the course of the tunnel arch; but it is not considered that the latter extend through the solid masonry. The wall has been thrust forward by the earth backing, and tilted so as to bring the face to a vertical position along the whole damaged length. The movement is very slight at the two extremities and attains a maximum at a distance of 1,650 to 1,700 feet from the south angle, where the displacement at the coping level is 7′ 5½″. From this point of maximum displacement to the south angle, an almost perfect

straight line has been preserved, the remaining 400 feet at the north end being more or less bulged. The original batter of the wall was $\frac{1}{2}''$ to the foot or about 2′ in the total height from the foundation, and this amount would represent the forward movement at the top edge of the coping due to tilting, the remainder of the movement, or a maximum of 5′ $5\frac{1}{2}''$, being the bodily transfer of the whole wall to the front sliding over its bed. The earth backing has sunk an average of perhaps 6′ for a distance of 75 to 120 feet from the front of the wall, filling completely the gap caused by the displacement of the wall. The average height through which the wall has sunk is 15″.

Shortly after the occurrence above mentioned, a serious movement and fracture of the wall at the south-west angle of the Dock took place. About 450 feet of the inclined portion of the wall was affected, and about 50 feet adjoining this at the end of the Dock. The greatest forward movement was at a point 120 feet from the angle of the side walls, being 12′ $11\frac{1}{2}''$, or, allowing 2 feet for the tilting of the wall, a forward movement of the whole wall of nearly 11 feet. The masonry of this portion is much shaken, showing cracks both on the face extending through the wall and longitudinal cracks. No less than seven cracks appear on the face of the wall and extending through it, while one appears at the extremity of the detached length at the end of the Dock. The mass of masonry here appears to have received a severe wrench from the force exerted by the backing at the point of maximum displacement, but the movement of the wall itself is small.

It was reported to us that since the first movement of the walls no further displacement or settlement has taken place. The masonry of both the damaged walls appears to us to be of thorough good quality.

Boat Canal.—Lift lock is finished, the main pumping-station is being roofed and the pump being erected; 19·5 per cent. of excavation and 17·0 per cent. of masonry still remain.

The Chetla lock walls are raised to within a few feet of coping level.

Subsidiary Works.—The hydraulic engine-house is completed. The four jetty heads to the entrance are about half done and the foundations of the cargo sheds were in progress. The latter along the length of the damaged portion of the Dock walls have sunk with the earth backing.

Expenditure.—The total expenditure up to the end of the quarter under review is reported to be Rs. 1,95,81,854, of which Rs. 1,70,48,464 represent outlay on works and Rs. 25,33,389 on account of land.

Sanitary.—During the quarter under review the health of the workpeople was generally good. The daily average number of coolies employed was 6,144, among whom there were four deaths, thus showing a death-rate of 7·82 per mille per annum.

General remarks.—We are of opinion that fair progress was made with the work up to the end of the quarter, which would have been maintained up to the date of our inspection but for the partial failure of the Dock walls. The quality of the work, as far as we have been able to judge, is satisfactory.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 15th November 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN. 1	Burdwan Nov. 15, '90	Nil	Weather—calm, bright and cold. State and prospects of all crops good. The full outturn may be expected, and all agricultural operations are being carried on to the fullest extent. Common rice selling at 16 seers per rupee on an average.
2	Bankoora ,, 15, '90	Nil	Cold weather has set in. Prospects of crops continue good. Sowing of mustard finished. Ploughing for wheat going on. Sugarcane prospering. Common rice selling at 20 seers per rupee at Sudder and 19½ seers at Bissenpore.
3	Birbhum ,, 15, '90	Nil	Weather—seasonable. Prospects of crops continue excellent. A bumper crop of rice is now almost assured.
4	Midnapur ,, 15, '90	Nil	Cold weather has set in. Winter rice doing well. *Rubbi* crops are being sown. Rice somewhat cheaper except in Ghatal. Prices of common rice :— Srs. Sudder ... ... 16; Tumlook ... ... 17¾; Ghatal ... ... 16; Contai ... ... 19 } per rupee.
5	Hooghly ,, 15, '90	Nil	Weather—cold, specially at night. Prospects of all crops good. Prices of common rice :— Srs. Sudder ... ... 13 or 14; Serampore ... ... 13; Jehanabad ... ... 16½ } per rupee.
	Howrah ,, 15, '90	Nil	Weather—seasonable. Winter paddy doing well. Price of common rice 14 to 14½ seers per rupee.
	Central Districts.		
PRESIDENCY DIVN. 6	24-Perghs. Nov. 18, '90	Nil	Weather—seasonable. Prospects of *amun* crop favourable. Ploughing for winter crops still continues. Prices stationary.
7	Nuddea ,, 15, '90	Nil	Weather—seasonable. Prospects of crops fair. Sowing of winter crops going on. Price of rice stationary.
8	Khoolna ,, 15, '90	Nil	Weather—seasonable. Prospects of *amun* crop favourable except in the flooded area.
9	Jessore ,, 15, '90	Nil	Weather—seasonable. Prospects of crops good. *Rubbi* sowings in progress. Agricultural loans still being issued.
10	Moorshedabad ,, 15, '90	Nil	Weather—seasonable. *Haimanti* rice in ear. Prospects favourable. *Rubbi* crops still being sown. *Kalai* doing well.
RAJSHAHYE DIVN. 11	Dinagepur ,, 15, '90	Nil	Weather—seasonable. Prospects of crops good. Price of rice unchanged. Locusts are reported to have done some damage in Patnitola police-station.
12	Rajshahye ,, 15, '90	Nil	Weather—mornings and evenings cool; skies almost clear. Jute gathered. Preparation of lands for *rubbi* crops not yet finished. Tobacco being planted. Condition of winter paddy good.
13	Rungpur ,, 15, '90	Nil	Fine bright cold weather with morning fogs and heavy dews. Mustard, pulses and wheat are being sown. Tobacco germinated and potatoes planted. *Amun* rice coming into ear. Prospects generally favourable.
14	Bogra ,, 15, '90	Nil	Weather—seasonable. State and prospects of all crops good. Locusts passed from the west across the north-west part of the district (thana Panchbibi) on the 7th instant, and did some damage to the crops and trees. Common rice is selling at 17½ seers per rupee.
15	Pubna ,, 15, '90	Nil	Weather—seasonable. Prospects of crops good. Prices slightly reduced.
16	Darjeeling ,, 15, '90	0·04	Weather—seasonable. In the Terai tobacco and potatoes are being planted. Mustard and sugarcane are doing well. Winter rice is in ear.
17	Julpigoree ,, 15, '90	Nil	Weather—days somewhat hot, but nights cool. Prospects of standing crops favourable. Steeping and gathering of jute almost finished. No change in the price of rice.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—*concluded.*			
	Eastern Districts.		
Dacca Divn. 18	Dacca Nov. 15, '90	Nil	Weather—seasonable. Prospects of *amun* rice good. Harvesting of *kartiki* (November) rice going on. *Mung* and *maskalai* being sown. Cultivation for mustard and pulses going on. Common rice sold at from 12 to 16 seers per rupee.
19	Furreedpur ,, 15, '90	Nil	Weather—seasonable. State of standing crops fair. Sowing of winter crops in progress. Common rice selling at from 13 to 17 seers per rupee.
20	Backergunge ,, 15, '90	Nil	Weather—seasonable. State and prospects of crops good. Common rice selling at about 13 seers a rupee.
21	Mymensingh ,, 15, '90	Nil	Weather—fine, but occasionally cloudy. Mornings and nights cool. Prospects and state of *amun* crop good. Harvesting of jute nearly finished. *Rubbi* sowings going on. Common rice sells at 12¾ seers per rupee.
Chittagong Divn. 22	Chittagong ,, 18, '90	Nil	Weather—seasonable. *Amun* crop maturing. Prospects favourable. Cultivation of vegetable crops going on. Prices steady.
23	Noakholly ,, 15, '90	Nil	Weather—seasonable. Sowing of *rubbi* crops going on. *Rajashail* rice is being reaped. Prospects of *amun* good. Outturn of betelnuts reported to be 14 annas.
24	Tipperah ,, 15, '90	Nil	Weather—seasonable. *Amun* prospering. Mustard and other winter crops being sown. Prices stationary.
25	Chittagong Hill Tracts. ,, 13, '90	Nil	Weather—seasonable, with foggy mornings. Cotton being gathered. Harvesting of early plough-paddy commenced. Lands are being ploughed for mustard. Common rice is being sold at 11 seers 6¾ chittacks per rupee.
	Hill Tipperah ...	...	Report not received.
BEHAR.			
Patna Divn. 26	Patna Nov. 15, '90	Nil	Weather—cool. Paddy is fast approaching to maturity. Prospects good. *Rubbi* crops previously sown are growing well. *Rubbi* crops still being sown in lower lands as the water recedes. Prices of food-grains almost stationary.
27	Gya ,, 15, '90	Nil	Weather—cold and fair. Paddy harvest commenced. Sowings of *rubbi* almost finished. Prospects favourable. Prices falling.
28	Shahabad ,, 15, '90	Nil	Weather—cool and clear. Prospects of all crops continue favourable. Poppy germinating well.
29	Durbhunga ,, 15, '90	Nil	Weather—bright, and cool at night. Rice crop in ear and approaching to maturity. *Rubbi* sowings rapidly progressing: those already sown are doing well. Tobacco and *alua* promising. Poppy sowings going on. Price of common rice varies from 14 to 17 seers per rupee.
30	Mozufferpur ,, 15, '90	Nil	Weather—seasonable. All crops doing very well. *Rubbi* still being sown. Poppy sowings making good progress.
31	Sarun ,, 15, '90	Nil	Weather—seasonable. Prospects of *rubbi* and rice continue excellent. Poppy sowings in progress. Prices slightly falling.
32	Chumparun ,, 15, '90	Nil	Weather—seasonable. Paddy beginning to ripen. *Rubbi* and poppy sowings progressing; seeds already sown have germinated well.
Bhagulpore Divn. 33	Monghyr ,, 15, '90	Nil	Weather—rather warm than usual at this season. *Rubbi* sowings nearly completed, and prospects good.
34	Bhagulpore ,, 15, '90	Nil	Weather—seasonable. Cutting of *rangi* rice has begun. Sowings of linseed and wheat continue. Prospects of all crops good.
35	Purneah ,, 15, '90	Nil	Weather—fine and cool. *Aghani* rice promises well. *Rubbi* prospects also good. Price of common rice 20 seers a rupee.
36	Maldah ,, 15, '90	Nil	Weather—seasonable. Prospects of all standing crops continue favourable, except in thanas Kaliachak, Bamongola, Old Maldah, and Ratua, where winter rice, *kalai*, and mustard have been destroyed to some extent by locusts. Price of rice stationary.
37	Sonthal Pergha. ,, 15, 90	Nil	Weather—seasonable. All crops doing well. Harvesting of early rice in progress; outturn more than average. *Rubbi* promises well.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack Nov. 15, '90	0·15	Weather—dry and cool. *Laghu sarad* is being reaped in Banki and Jajpur and ripening in other places. *Guru sarad* is in ear. Prices of common rice :— Sudder ... ... Srs. Ch. 18 6 / Jajpur ... ... 17 1 / Kendrapara ... ... 21 0 } per rupee. Banki ... ... { 21 old rice / 28 new rice } "
	39	Pooree „ 13, '90	Nil	Weather—fair and cold. State of standing crops good. Late *sarad* flourishing.
		Khoorda ...	0·17	Early *sarad* being harvested; expected outturn 14 annas. Price of rice 21 to 26 seers per rupee.
	40	Balasore „ 15, '90	Nil	Weather—seasonable. Harvesting of early winter rice continues. Average extent of sowing of *biri*, *mung*, and mustard up to date is about 12 annas.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Nov. 15, '90	Nil	Weather—clear and cold. Harvesting of winter rice commenced. Prospects of *rubbi* crops continue good. Prices about stationary.
	42	Lohardugga „ 15, '90	Nil	Weather—seasonable. Harvesting of winter rice continues. Rain wanted for *rubbi*. Prices steady.
	43	Singbhoom „ 15, '90	Nil	Weather—seasonable: bright and cool. Paddy crop being harvested with an outturn of 10 to 16 annas. *Rubbi* crops doing well everywhere. Prices stationary.
	44	Manbhoom „ 15, '90	Nil	Weather—seasonable. Reaping of upland paddy going on. Expected outturn full. Rice selling at from 17 to 22 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 18th November, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 9th to 15th November 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Nov.	9th	140·2	6	29·985	75·9	82·7	12·3	70·4	72·4	0·750	70·6	84	NNW and calm ..	20	Nil	Partially cloudy, ▲.
,,	10th	136·3	9·7	·964	72·6	80·6	16·3	64·3	67·1	·593	63·8	76	NNW and calm ..	37	,,	Clear, ▲.
,,	11th	135·5	9·6	·948	71·2	80·2	17·5	62·7	65·6	·557	62·0	75	NNW and calm ...	28	,,	Clear, ▲.
,,	12th	135·7	9·0	·934	74·4	80·5	18·1	62·4	65·9	·567	62·5	75	Variable and calm ..	26	,,	Chiefly clear, ▲.
,,	13th	137·5	9·7	·941	70 9	80 7	19 6	61·1	65·3	·553	61·8	74	WNW and calm ...	16	,,	Clear, ▲.
,,	14th	137·5	9·9	·965	71·1	81·0	18·2	62·8	66·0	·574	62·8	77	Variable and calm...	32	,,	Clear, ▲.
,,	15th	137·8	9·5	·983	68·9	80·3	21·2	59·1	62·6	·485	58·1	69	NNW and calm ...	20	,,	Clear, ▲.

	Inches.
The mean pressure of the seven days	29·960
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·957
	Hours.
The total number of hours of bright sunshine	64·0
The maximum possible number of hours of sunshine	77·5
	°
The mean temperature of the seven days	72·1
The average temperature of the corresponding period for 24 years, S.-G.'s Office	76·0
The extreme variation of temperature	23·6
The maximum temperature	82·7
	Miles.
The highest velocity of the wind in one hour	6
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	76
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	73
	Inches.
The total fall of rain from 9th to 15th November 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·35
The total fall from 1st January to 15th November 1890	61·25
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	65·13

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

▲, dew.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 17th November 1890.

Meteorological Report of the Province of Bengal

Meteorological Division.	District.	Representative station.	Station Observations.														
			Air Pressure.			Wind.		Temperature.									
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	30·017	30·029	—	Northerly	165	85·7	9, 10 Nov.	65·6	12th Nov.	84·7	71·5	78·1	—	74·7
		Gopalpore	30·020	30·042	+·067	NNW	151	83·2	10, 12, 14 Nov.	64·9	13, 14 ,,	82·2	70·1	76·1	−0·9	75·9
		False Point	30·010	30·032	+·024	NW	113	84·9	10th ,,	62·5	12th ,,	83·7	67·0	75·4	+0·1	74·4
	Cuttack	Cuttack	29·962	30·045	+·039	Calm	25	87·9	8th ,,	63·3	13, 14 ,,	86·7	68·7	77·7	+0·7	73·5
	Balasore	Balasore	29·989	30·050	+·034	Calm	80	85·4	9 & 10 ,,	59·6	12th ,,	83·7	65·8	74·5	+0·2	70·8
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	30·008	30·035	+·030	North-Westerly	158	83·7	8th ,,	62·9	12th ,,	81·7	68·4	75·1	+0·8	74· *
	Midnapore	Midnapore	29·881	30·036	+·014	N	122	86·3	10th ,,	59·2	12th ,,	85·2	63·5	74·4	+1·0	70·5
	24-Pergunnahs / Howrah / Hoogbly	Calcutta	30·012	30·034	+·025	Calm	21	82·5	10th ,,	61·3	13th ,,	80·9	64·6	72·8	−1·5	71·8
	Burdwan	Burdwan	29·947	30·050	+·033	North-Westerly	25	85·3	9th ,,	62·4	11, 13, 14 Nov.	83·0	64·9	74·0	−0·6	69·2
	Bankoora	Bankoora	29·712	30·028	+·019	W	47	85·1	9th ,,	58·8	11, 12, 14 Nov.	83·8	62·3	73·1	−1·3	67·3
	Beerbhoom / West Burdwan	Raneegunge	29·725	30·072	+·051	NW	38	82·9	10th ,,	57·5	11th ,,	82·1	61·4	71·7	−1·8	67·5
	Moorshedabad	Berhampore	29·961	30·030	+·012	WSW	24	82·1	9, 13, 14 Nov.	62·7	14th ,,	81·4	65·0	73·2	−1·0	70·4
	Nuddea	Krishnaghur	29·979	30·029	+·027	WNW	55	84·8	10th ,,	59·6	14th ,,	83·7	62·4	73·1	−0·8	72·6
	Jessore / Khoolna	Jessore	29·996	30·031	+·028	Calm	14	84·7	9 & 10 ,,	64·5	11th ,,	83·6	67·0	75·3	−1·4	72·7
East Bengal.	Chittagong	Chittagong	29·935	30·028	+·036	NW	41	82·7	8, 10 ,,	61·9	13th ,,	81·8	67·3	74·6	−0·8	69·9
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	30·005	30·018	+·045	Calm	27	87·3	10th Nov.	65·0	11th ,,	82·6	66·3	74·5	−0·3	73·8
	Noakholly	Noakholly	29·990	30·035	+·058	Calm	45	82·3	14th ,,	61·0	12th ,,	81·8	62·3	72·1	−3·0	72·7
	Furreedpore	Furreedpore	29·994	30·035	+·046	Calm	23	81·5	10th ,,	64·0	10th ,,	81·1	66·3	73·7	0	72·1
	Dacca	Dacca	29·985	30·008	+·017	Variable	54	83·1	10, 13, 14 Nov.	64·3	9 & 10 ,,	82·5	65·5	74·0	−2·5	73·4
	Commillah	Commillah	29·986	30·023	+·041	Calm	10	82·9	10th ,,	60·9	8, 10, 12 Nov.	81·8	61·7	71·8	−3·6	70·5
	Mymensingh	Mymensingh	29·958	30·018	+·027	Calm	28	82·2	12th ,,	61·8	10th ,,	81·1	64·4	72·7	−1·2	69·7
North Bengal.	Bogra	Bogra	29·936	30·001	+·046	Calm	28	81·8	13th ,,	60·4	9th ,,	80·6	62·7	71·7	−1·2	69·8
	Pubna	Serajgunge	29·971	30·018	+·018	N	15	82·4	9th ,,	60·7	9th ,,	81·4	63·2	72·3	−0·7	70·7
	Rajshahye	Rampore Beauleah	29·953	30·025	+·030	N	23	81·3	12th ,,	62·7	10th ,,	80·7	64·4	72·6	—	71·0
	Maldah	Maldah	29·953	30·037	?	NW	72	83·6	14th ,,	60·6	10th ,,	82·2	62·6	72·4	−0·3	70·5
	Dinagepore	Dinagepore	29·900	30·020	+·014	W	?	83·1	13th ,,	60·7	14th ,,	81·9	61·8	71·9	−0·3	68·4
	Rungpore	Rungpore	29·901	30·030	+·021	NE	?	83·8	13th ,,	61·2	8, 9 ,,	82·1	62·3	72·2	+0·6	70·8
	Julpigoree / Cooch Behar	Julpigoree	29·732	30·031	+·025	?	?	82·9	12, 13 ,,	60·3	8th ,,	81·5	61·7	71·6	−0·2	68·4
	Darjeeling Hill Tracts	Darjeeling	23·039	—	—·012	Variable	74	57·2	12th ,,	42·2	9th ,,	54·0	45·5	48·8	+0·3	49·0
North Behar.	Purneah / North Bhagulpore	Purneah	29·901	30·033	+·021	Variable	37	81·7	14th ,,	57·5	8th ,,	80·2	59·7	70·0	−2·2	75·8
	Mozufferpore	Mozufferpore	29·840	30·030	—	Calm	36	81·9	13th ,,	62·3	9th ,,	80·3	63·7	72·0	—	65·8
	Durbhunga	Durbhunga	29·864	30·038	+·006	WSW	32	82·9	13th ,,	59·5	14th ,,	81·2	60·6	70·9	−1·9	68·2
	Chumparun	Motihari	29·810	30·047	+·037	WSW	79	83·2	13th ,,	55·9	8th ,,	81·3	57·3	69·4	−0·1	63·1
	Sarun	Chupra	29·830	30·035	+·023	Calm	28	82·3	13, 14 ,,	59·4	11th ,,	81·2	62·3	71·8	+0·4	64·4
South Behar.	Shahabad	Dehree	29·681	30·054	+·016	SW	62	84·8	14th ,,	54·5	12th ,,	82·5	57·4	70·0	−1·7	65·4
		Buxar	?	?	?	WSW	62	86·4	14th ,,	56·4	11, 12, 13 ,,	83·1	57·9	70·0	−2·1	66·1
		Arrah	29·831	30·035	+·018	W	6	84·2	13th ,,	54·6	11 & 14 ,,	82·5	56·1	70·3	−0·8	65·1
	Gya	Gya	29·666	30·064	+·027	S	114	84·4	14th ,,	56·3	13, 14 ,,	82·9	59·0	71·0	−1·5	66·2
	Patna	Bankipore	29·857	30·050	+·009	W	39	81·9	13th ,,	56·2	14th ,,	81·3	59·1	70·2	−2·2	67·9
	South Bhagulpore / Monghyr	Bhagulpore	29·856	30·036	+·005	Calm	3	80·3	8, 14 ,,	57·5	11th ,,	80·4	58·9	69·7	−1·4	66·9
Chutia Nagpur.	Sonthal Pergunnah	Doomka	29·836	30·047	+·026	NW	28	81·6	9th ,,	56·6	11 & 13 ,,	81·0	59·1	70·1	−1·2	66·6
	Hazaribagh	Hazaribagh	27·967	30·070	+·035	Westerly	145	78·9	14th ,,	53·8	13th ,,	77·0	57·1	67·1	−1·8	62·4
	Lohardugga / Manbhoom	Ranchee	29·865	30·080	+·015	Calm	100	79·2	13th ,,	51·2	13th ,,	77·6	56·5	67·1	+0·3	66·6
	Singbhoom	Chyebassa	29·887	30·036	+·043	W	18	86·2	13th ,,	54·9	13th ,,	80·5	62·5	73·5	+0·5	70·6

* Means of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last [illegible]. The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers [illegible] numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past [illegible] in the district resulting in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fall.

for the week ending Friday, the 14th of November 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
81	3·1	Nil	0·09	0·23	1·82	1·57	+0·25	65·77	53·90	+11·87	0·5	0·3	Pooree ... Gopalpore ...	Pooree	Orissa.
85	3·9	1·90											False Point ...		
85	2·0	Nil													
74	2·9	Nil	0·11	0·08	1·07	0·59	+1·38	63·64	50·39	+13·25	0·6	0·2	Cuttack ..	Cuttack	
82	0	Nil	0·04	0·11	0·87	0·65	+0·22	61·26	52·39	+8·87	0·2	0·2	Balasore	Balasore	
85	2·1	Nil	Nil	0·07	0·64	0·56	+0·08	56·29	51·56	+4·73	0·0	0·1	Sangor Island ..	South-West Midnapore South 24-Pergunnahs	South-West Bengal.
73	1·1	Nil	Nil	0·01	Nil	0·17	—0·17	50·00	50 78	—0·78	0·0	0·1	Midnapore	Midnapore	
75	1·1	Nil	Nil	0·02	0·07	0·27	—0·20	55·16	50 83	+4·33	0·0	0·1	Calcutta ...	24-Pergunnahs... ... Howrah .. .. Hooghly	
75	2·1	Nil	Nil	0·01	0·25	0·30	—0·05	61·41	46·12	+15·29	0·0	0·1	Burdwan ...	Burdwan	
73	2·4	Nil	Nil	0·04	0·01	0·27	—0·26	52·02	51·74	+0·28	0·0	0·1	Bankoora ...	Bankoora	
72	1·3	Nil	Nil	0·05	0·35	0·14	+0·21	63·03	51·59	+12·34	0·0	0·1	Raneegunge ...	Beerbhoom .. .. West Burdwan ...	
83	0·4	Nil	Nil	0·08	0·33	0·22	+0·11	60·55	49·88	+10·67	0·0	0·1	Berhampore	Moorshedabad .	
75	1·7	Nil	Nil	0·04	0·04	0·30	—0·26	55 03	48·60	+6·43	0·0	0·1	Krishnaghur ..	Nuddea	
83	1·4	Nil	Nil	0·03	0·06	0·30	—0·24	53 51	52·53	+1·01	0·0	0·1	Jessore ...	Jessore ... .. Khoolna	
89	0·1	Nil	Nil	0 24	1·37	1·49	—0·12	119·03	111·89	+7 17	0·0	0·3	Chittagong ..	Chittagong	East Bengal.
			Nil	0·16	0·42	1·51	—1·09	73·32	79·28	—5·96	0·0	0·3	Dunagiri ..	Chittagong Hill Tracts	
80	0	Nil	Nil	0·07	Nil	1·12	—1·12	69·16	75·47	—7·31	0·0	0·1	Barrisal ...	Backergunge ...	
85	0	Nil	Nil	0·42	Nil	1·95	—1·95	97·88	105·11	—7·23	0·0	0·1	Noakholly .	Noakholly	
86	0·6	Nil	Nil	0·03	Nil	0·40	—0·40	45·42	54·74	—9 32	0·0	0·1	Furreedpore ..	Furreedpore	
82	3·0	Nil	Nil	0·09	Nil	0·50	—0·50	58 19	59·57	—1·34	0·0	0·1	Dacca ...	Dacca	
86	0·4	Nil	Nil	0·06	Nil	0·56	—0·56	60·11	67·51	—7·40	0·0	0·1	Commillah ..	Tipperah	
91	2·7	Nil	Nil	0·03	0·17	0·21	—0·04	75·85	68·31	+7·54	0·0	0·1	Mymensingh .	Mymensingh	
84	0·7	Nil	Nil	0·16	0·41	0·31	+0·10	79·09	56·87	+22·12	0·0	0·2	Bogra ...	Bogra	
87	0·7	Nil	Nil	0 03	0·57	0·25	+0·32	54·95	52·78	+2·17	0 0	0·1	Serajgunge .	Pubna	
80	0·3	Nil	Nil	0·06	0·93	0·14	+0·79	75·86	52·76	+23·10	0·0	0·1	Rampore Beauleah	Rajshahye	North Bengal.
82	0	Nil	Nil	0·07	0·02	0·18	—0·16	62·14	53·58	+8·56	0·0	0·1	Maldah .	Maldah	
87	0	Nil	Nil	0 03	Nil	0·06	—0·06	81·74	56·21	+25·53	0·0	0·1	Dinagepore ...	Dinagepore	
88	0	Nil	Nil	0·08	Nil	0·08	—0·08	106·61	73·17	+33·44	0·0	0 1	Rungpore ...	Rungpore	
89	0	Nil	Nil	0·02	Nil	0·02	—0·02	154·51	109·35	+44·96	0·0	0·1	Julpigoree ...	Julpigoree ... ... Cooch Behar	
81	4·3	0·04	0·02	0·10	0·02	0·14	—0·12	165·60	119·71	+45·89	0 5	0·2	Darjeeling ...	Darjeeling Hill Tracts	
89	0	Nil	Nil	0·02	Nil	0·03	—0·03	80·67	58·02	+22·65	0·0	0·1	Purneah ...	Purneah ... ... North Bhagulpore ...	
94	0	Nil	Nil	0·01	Nil	0·04	—0·04	52·57	42·71	+9·86	0·0	0·1	Mozufferpore ...	Mozufferpore	
81	0	Nil	Nil	0·01	Nil	0·02	—0·02	57·63	43 92	+13·71	0·0	0·1	Durbhunga ...	Durbhunga	
81	0·9	Nil	Nil	Nil	Nil	Nil	Nil	68·47	45·89	+22·58	0·0	0·0	Motihari ..	Chumparun	
83	0·3	Nil	Nil	0·01	Nil	0·04	—0·04	53·60	41·71	+11·89	0·0	0·1	Chupra ...	Sarun	
73	1·1	Nil											Dehree ... Buxar ... Arrah ..	Shahabad	
66	1·7	Nil	Nil	Nil	0·01	Nil	0·10	—0·10	49·59	39·16	+10·43	0·0	0·1		
69	1·0	Nil											Gya ..	Gya	
74	0·7	Nil	Nil	Nil	Nil	Nil	0·14	—0·14	56·93	40·71	+16·22	0·0	0·0	Bankipore ...	Patna ... ...
68	0·6	Nil	Nil	Nil	Nil	Nil	0·10	—0·10	48·10	40·51	+7·59	0·0	0·0	Bhagulpore ...	South Bhagulpore ... Monghyr ... ...
79	0	Nil	Nil	0·09	Nil	0·12	—0·12	52·25	42·46	+9·79	0·0	0·1	Doomka ...	Sonthal Pergunnahs...	Sonthal Pergunnahs.
71		Nil	Nil	0·08	0·38	0·13	+0·25	63·65	50·23	+13·42	0·0	0·1	Hazaribagh ...	Hazaribagh	
64	2·1	0·02	Nil	0·07	0·01	0·20	—0·19	49·45	49·04	+0·41	0·0	0·1	Ranchi ...	Lohardugga ... ... Manbhoom	
62	2·1	Nil	Nil	0·03	Nil	0·22	—0·22	47·01	47·17	—0·16	0·0	0·1			
			Nil	0·07	0·10	0·15	+0·07	41·53	46·19	—4·66	0·0				
69	1·5	Nil	Nil	0·04	Nil	0·23	—0·23	33·94	50·47	—16·53	0·0	0·1	Chyebassa ...	Singhbhoom	

ten years. The variations are *negatives* when the mean for the week is less than the corresponding normal mean, and *positives* when greater.

denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal is the mean of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of November 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 8th November.	Sunday, 9th November.	Monday, 10th November.	Tuesday, 11th November.	Wednesday, 12th November.	Thursday, 13th November.	Friday, 14th November.	Total number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·28	1·59	69·97	49·49
		Khurdah ...	.....	.....	0·17	.....	.....	.....	.....	1	0·17	0·23	1·17	65·16	55·27
		Hanpur ...	.....	.....	.....	0·20	.....	.....	.....	1	0·20	1·10	1·61	61·85	47·77
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·69	1·88	66·10	62·57
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·92	?	65·96	?
		Satpara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·94	?	45·07	?
		Pipli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·29	?	75·90	?
	Cuttack ...	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·60	0·62	63·67	45·75
		Banki ...	.....	.....	0·17	.....	.....	.....	.....	1	0·17	5·25	0·62	66·09	46·50
		Cuttack ...	.....	0·15	.....	.....	.....	.....	.....	1	0·15	1·84	0·78	82·14	55·33
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·59	0·60	53·15	51·90
		Jajpore ...	.....	.....	0·22	.....	.....	.....	.....	1	0·22	0·46	0·85	53·15	51·78
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	?	53·18	
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·70	?	53·15	?
	Balasore ...	Chandbali ...	.....	.....	0·25	.....	.....	.....	.....	1	0·25	0·41	1·10	53·06	51·99
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·68	0·78	57·85	50·78
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	0·58	60·84	150·51
		Balasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·25	0·71	64·13	56·85
		Jellasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·21	0·25	65·83	50·92
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·61	0·45	62·91	52·93
South-West Bengal	Midnapore	Contai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·45	0·60	67·73	60·51
		Sangor Island ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·44	0·78	69·05	66·39
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·27	57·90		50·63
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	47·47		47·92
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·06	44·61		53·42
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·39	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·23	?
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	0·30	63·13	57·44
		Canning Tow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·69	?
		Alipore Jail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·27	61·96	54·55
		Barrackpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	50·91	48·53
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·59	0·19	56·34	50·78
		Baraset ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	54·84	48·96
		Buseerhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	58·67	54·01
	Howrah ...	Howrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	51·34	50·07
		Mohesaka (*Collabersack*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	59·57	51·05
	Hooghly ...	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·17	54·30	49·38
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	52·05	47·36
		Tehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	51·57	54·46
	Burdwan ...	Oulna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·34	54·31	45·69
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·56	0·28	65·53	47·47
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	64·38	47·19
		Raneegunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	0·13	60·54	48·00
		Wankar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·41	?	48·21	?
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	57·76	50·83
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	50·95	51·36
		Mallara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·36	59·28	48·11
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	40·06	55·98
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·97	?
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·94	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·11	?
		Gangajalghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·75	?
		Easpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·29	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·74	?
	Beerbhoom ...	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·33	0·11	63·26	53·19
		Hétampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·76	0·13	60·31	53·65
		Rampore Haut ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·16	73·50	50·74
		Holpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·19	?	57·42	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·46	?
	Nuddea ...	Ranaghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	55·46	46·29
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·33	61·66	45·34
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	47·98	50·82
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	58·86	46·09
		Kooshtea ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	52·09	53·80
	Khoolna ...	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·48	0·33	57·61	55·07
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	62·51	60·35
		Khoolna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	52·83	53·95
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·99	?	70·02	?
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·78	?
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	51·45	46·17
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	59·40	53·48
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	51·14	52·73
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	49·44	46·55
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	46·08	50·87
	Moorshedabad ...	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	0·33	64·89	49·48
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·24	58·27	50·59
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	61·67	49·45
		Asimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	58·27	50·45
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·50	0·06	51·84	48·49
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·65	0·30	65·85	50·66
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Akhriguni ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·99	?
		Pathabari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·37	1·00	132·43	121·22
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·27	1·08	118·89	98·11
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·25	?	113·65	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·15	?	91·41	?
	Chittagong Hill Tracts.	Rangmati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	1·31	85·93	82·06
		Bama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	1·69	77·71	76·46
	Backergunge ...	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·56	79·01	66·76
		Perozepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·12	62·91	66·20
		Barrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·00	66·78	66·40
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·12	64·99	59·58

ɔment of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of November 1890—contd.

Jonical sion.	District.	Station.	Rainfall. Saturday, 8th November.	Sunday, 9th November.	Monday, 10th November.	Tuesday, 11th November.	Wednesday, 12th November.	Thursday, 13th November.	Friday, 14th November.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
ɜENGAL ɔld.		*Gourreadee* ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·66	?
		Baupbal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73·26	?
	Noakholly ...	Noakholly ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·52	92·34	106·25
		Fenny .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·37	103·90	103·84
		Harishpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·90	?	109·51	?
		Ramganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·28	?
	Furreedpore	Madaripore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	41·91	54·92
		Furreedpore..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	49·45	57·15
		Goalundo ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	44·90	52·35
	Dacca ...	Munshigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·61	57·74	69·01
		Dacca ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	54·58	57·92
		Narainguuge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	60·71	60·54
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	59·71	49·34
		Joydebpore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·26	?
	Hill Tipperah ...	Agartola ..	.....										0·02		60·41
	Tipperah ...	Comilla ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·71	67·24	74·69
		Chandpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	56·78	74·20
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	54·64	60·83
		Ramchandra-pore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·11	?
		Nasirnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	84·81	?
		Daudkandi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	80·14	?
		Kasba ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·71	?
		Laksham ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·55	?
	Mymensingh	Kishoregunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	68·87	69·13
		Atia (*Tangail*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·81	0·19	56·62	54 81
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·28	78·05	73·36
		Jamalpore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	79·16	64·47
		Netrokona ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	90·54	80·02
		Subornakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·42	?	58·25	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·07	?
		Sherepore Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·41	?
		Dewanganj .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·90	?
NORTH BENGAL.	Pubna ..	Pubna ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	46·08	53·34
		Serajgunge ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·14	0·35	63·81	52·16
	Bogra ..	Sherepore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·59	0·54	77·86	57·75
		Nowkhilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·37	0·47	66 79	53·72
		Bogra ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·68	0·22	79 92	60·38
		Panchbibi .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	91·46	55·27
	Rajshahye ..	Beauleah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·95	0·15	72·29	52·40
		Nattore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·55	0·26	88·84	54·19
		Naogaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·30	0·01	66 15	51·83
		Lalpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·38	?
		Manda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·04	?
	Maldah	Maldah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·16	64·65	50·98
		Chanchal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	59·62	50 11
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	84·40	?
		Sibganj .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·12	?	62·66	?
	Dinagepore	Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	67·94	55 94
		Jhuramon .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	80·28	52 01
		Kaigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	92·75	57·54
		Dinagepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 06	86·80	63·50
		Balooghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	81·01	54·98
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	107·04	?
	Rungpore	Buxwanigunge (*Gyaeanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	123·01	62 04
		Rungpore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	96·56	74 06
		Kurigram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	95·59	72·05
		Bagdogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	111·28	83·87
		(*Nilphamari*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	97·52	?
		Ulipore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	156·26	116·71
	Julpigoree ..	Julpigoree ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	187·47	?
		Alipore Doosr	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	146·30	?
		Fallacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	115·70	?
		Debigang ...	.....	.....	.....	.....	.....	.....	.....				?	182·64	?
		Bhagalpore (*Nagrakatta*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	128·95	94·44
	Cooch Behar	Dinhata	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 02	169 37	117·98
		Cooch Behar .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	140·35	104·85
		Mekrigunge..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	171·61	111·87
		Mathurangna...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 29	210·73	191·01
		Buxa	...	0·03	.....	0·06	.....	.....	.....	?	0·09	0·09	0·07	178·31	102·06
	Darjeeling Hill.	Silliguri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	169·36	107·17
		Darjeeling ..	.....	.....	.....	0·04	.....	.....	.....	)	0·04	0·04	0·13	125·00	77 09
		Kalimpong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	192·78	?
		Kurseong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	105·38	69·64
NORTH BEHAR	Purneah ...	Kissengunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 03	83·78	63 15
		Arrareah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	89·36	60·97
		Purneah .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Gandwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	100·45	?
		Balarampore	...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·98	?
		Matiari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·55	?
		Kaliagani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	61 61	48·39
	North Bhagulpor	Maddapore .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	65·21	47·58
		Sripoor ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·30	?
		Protabganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	51·70	42 37
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	58·56	45·09
		Durbhunga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	62·61	44·20
		Madhubani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·58	?
		Bahere ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·42	?
		Keshere ..	.....	.....	.....	.....	.....	.....	.....				Nil	52·96	42·37
	Mozufferpore	Sitamarhi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 05	56·18	44·85
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	48·60	41·20
		Hajipore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·81	?
		Pare ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·79	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·18	?
		Simhar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·19	?
		Pupri ...	.....	.....	.....	.....	.....	.....	.....						

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of November 1890.—

Meteorological Division.	District.	Station.	Rainfall. Saturday, 8th November.	Sunday, 9th November.	Monday, 10th November.	Tuesday, 11th November.	Wednesday, 12th November.	Thursday, 13th November.	Friday, 14th November.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.
North Behar —*concluded.*	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	72·06
		Bettiah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	64·89
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	
		Burhurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·36
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	52·67
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	59·84
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	48·27
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	52·47
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	43·14
		Bhabooah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	41·11
		Sasseram ...	.....	.....	.....	.....	.....	...	.....	Nil	Nil	Nil	0·05	44·19
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	66·96
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	
	Gya ..	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	59·49
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	60·04
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	54·84
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	53·35
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	
		Daudnagar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·85
		Sherrghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·81
		Rajauli ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·60
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·24
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	50·02
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	52·13
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	46·95
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	43·25
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·33
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	44·29
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	54·84
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	60·22
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·44
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·76
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	59·77
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	42·11
		Kulgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·06
		Bongaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	56·86
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	50·75
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	74·16
		Nya Doomka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	74·11
		Deoghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	0·09	49·43
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	76·41
		Mohasama ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·15	?	48·81
		Namhat ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	32·28
Chutta Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·30	0·16	55·35
		Hazaribagh ...	0·02	.....	.....	.....	.....	.....	.....	1	0·02	Nil	0·19	49·97
		Semtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·02	0·23	38·89
		Mahudi Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·33	43·02
		Jhoomra Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	56·80
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·08
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·34
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24
	Lohardugga ...	Lohardugga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	53·19
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	43·57
		Palamow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	44·27
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·35	?	43·85
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·62
		Hosseinabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·30
	Singbhoom ..	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	33·94
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	24·83
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·46
		Baharagora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·93
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	44·22
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·21	0·14	38·84
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	?	62·26
		Barrabhoom ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·15
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64·71
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·18

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 18*th November* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 14TH OF NOVEMBER 1890.

FINE weather has prevailed almost without interruption over the whole province throughout the week, and the general conditions have undergone very little change from day to day. Pressure has been above the normal, and temperature after the first day or two has been steadily falling. Wind circulation, except towards the end of the week, was westerly in the western districts, and gradually became more northerly towards the east. In the Bay steady northerly winds of light or moderate force have blown almost continuously.

At the beginning of the week pressure was very high, readings being over 30 inches at all stations, and diminishing from 30·1 in the north of Bengal to a little over 30 inches in the extreme south of the Bay. Southerly winds were blowing in Chutia Nagpur and the west of South Behar, owing to a local high-pressure area over the country surrounding Gya, Hazaribagh, and Ranigunge, which caused faintly defined anti-cyclonic winds in its neighbourhood. Temperature was falling in the northern districts and rising in South-West and North Bengal and Assam, while nearly all stations reported light cloud. Pressure began to fall very slowly on the 9th, and the cloudy weather continued, a light shower of rain being reported from Cuttack. The fall of pressure was moderate on the 10th, but conditions underwent no change, except that light showers were more frequent in Orissa and a few drops fell at Buxa and Darjeeling Till about the end of the week there was no further change, pressure tended to become more uniform, and low in the northern districts, especially on the 13th, when westerly or south-westerly winds blew at nearly all stations, and on the 14th notwithstanding the general rise.

Pressure—Was considerably above the normal at the beginning of the week, and afterwards very nearly normal. Means are therefore in excess at all stations by amounts varying from ·02 inch over the greater part of the province to ·05 inch in East Bengal.

Temperature—Has been steadily falling and almost always below the normal. From the table below, giving mean temperature at representative stations, it may be seen that defect has been almost the same in maximum and minimum readings; the only notable differences occurring at Darjeeling, where the mean night temperature is above the normal by 1·6° and the day temperature below by about 1°; and at Purneah, where defect was considerably greater during the day than at night. The mean for Orissa is normal, and for the other districts below—North Bengal by ·4°, South-West-Bengal and Chutia Nagpur by ·7°, East Bengal and South Behar by 1·6°, and North Behar by 1·9°.

The warmest days were the 9th and 10th in Lower Bengal, and the 13th and 14th in North Bengal and Behar, maximum temperature being generally between 82° and 84°. The coldest nights were the 11th and 12th in all districts except North Bengal and the adjacent part of North Behar, where temperature was lowest on the 9th and 10th:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 14th of November 1890.

	Normal mean maximum temperature for the week ending 14th November.	Actual mean maximum temperature for the week ending 14th November 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 14th November.	Actual mean minimum temperature for the week ending 14th November 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 14th November.	Actual mean daily temperature for the week ending 14th November 1890.	Variation of actual mean from the normal.
Cuttack	86·3	86·7	+0·4	67·6	68·7	+1·1	76·9	77·7	+0·8
Calcutta	82·5	80·9	−1·6	66·1	64·6	−1·5	74·3	72·8	−1·5
Dacca	85·1	82·5	−2·6	67·8	65·5	−2·3	76·5	74·0	−2·5
Burdwan	84·0	83·0	−1·0	65·2	64·9	−0·3	74·6	74·0	−0·6
Patna	83·3	81·3	−2·0	61·5	59·1	−2·4	72·4	70·2	−2·2
Gya	84·3	82·9	−1·4	60·6	59·0	−1·6	72·5	71·0	−1·5
Purneah	83·4	80·2	−3·2	60·9	59·7	−1·2	72·2	70·0	−2·2
Hazaribagh	78·3	77·0	−1·3	59·0	57·1	−1·9	68·7	67·1	−1·6
Darjeeling	54·9	54·0	−0·9	41·9	43·5	+1·6	48·4	48·8	+0·4

Rainfall.—A few light showers fell in Orissa in the early part of the week, giving a mean fall of ·08 inch. The other districts have been rainless.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 14th of November 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	87·9	59·6	84·2	68·5	76·4	0	0·09	0·13	−0·05	0·4	0·2	+0·2	1·50	0·89	63·27	52·12
South-West Bengal ...	86·3	57·5	82 8	64·1	73·6	−0·7	Nil	0·04	−0·04	0·0	0·1	−0·1	0·17	0·28	56·83	51·28
East Bengal	87·3	60·9	81·8	64·8	73·3	−1·6	Nil	0·10	−0·10	0·0	0·2	−0·2	0·17	0·79	71·42	73·38
North Bengal	83·8	60·3	81·5	62·7	72·1	−0·4	Nil	0·06	−0 06	0·0	0 1	−0·1	0·22	0·13	95 00	68·80
North Behar	83·2	55·9	80·8	60·7	70·8	−1·9	Nil	0·01	−0·01	0·0	0 1	−0·1	Nil	0·02	64 38	47·92
South Behar	84·8	54·5	81·8	58·5	70·2	−1·6	Nil	0·04	−0·04	0 0	0·1	−0·1	0·00	0·12	54·66	43·00
Chutia Nagpur	79·2*	51·2*	77·5*	56 7*	67·1*	−0·7*	Nil	0·06	−0 06	0·0	0·1	−0·1	0·02	0·20	46 00	48·14

* Chyebassa not included.

Meteorological Office, Bengal; *The 18th November* 1890.

C. Little,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 9th to 15th November 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
November...	9th ...	30·058	77·8	81·7	13·9	70·8	79·6	74·5	·787	72·0	78	...
,, ...	10th ...	·029	73·6	81·9	16·6	65·3	77·8	68·6	·578	63·0	61	...
,, ...	11th ...	·030	72·4	81·1	17·5	63·6	78·4	66·8	·504	59·2	52	..
,, ...	12th ..	·016	72·6	82·4	19·7	62·7	75·4	65·3	·491	58·4	56	...
,, ...	13th ...	·015	72·4	82·9	21·0	61·9	76·6	66·8	·527	60·4	58	...
,, ...	14th ...	·041	73·1	82·9	19·7	63·2	77·6	68·6	·580	63·2	61	...
,, ...	15th ...	·037	73·0	81·0	16·1	64·9	75·6	67·6	·558	62·0	64	...

	Inches.
The mean 10 A.M. pressure of the seven days	30·032
The mean temperature of the seven days	73·6
The extreme variation of temperature	22·8
The maximum temperature	84·7
	%
The mean 10 A.M. relative humidity of the seven days	61
	Inches.
The total fall of rain from 9th to 15th November 1890	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. Gilliland,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India;
The 17th November 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 25th October 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 25th October 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 19·4 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 7·2 below the average rate of the corresponding week of the past five years, and is also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	25·6	27·1	23·6	31·3	25·6	26·6	19·4

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 4th Oct. 1890.	11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	Towns.	Weeks ending— 4th Oct. 1890.	11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.
Burdwan	53·4	13·7	31·6	13·7	Naraingunj	37·3	49·7	24·8	70·4
Midnapore	17·0	18·6	7·7	7·7	Chittagong	9·4	9·4	9·4	...
Hughli and Chinsurah	34·5	41·0	49·2	27·8	Comillah	11·6	27·0	27·0	46·2
Serampore	47·1	49·1	23·6	43·2	Patna City	19·8	13·3	14·3	12·3
Utterpara	9·4	37·7	47·2	...	Gya	36·9	30·7	39·6	12·3
Howrah	25·2	29·1	24·6	25·2	Arrah	47·9	45·5	20·3	21·6
Bali	28·1	31·6	28·1	24·6	Muzufferpore	24·3	29·2	21·9	24·3
Krishnagar	26·5	9·5	18·9	14·1	Durbhanga	40·9	13·3	37·0	36·2
Ranaghat	12·0	12·0	18·0	18·0	Chupra	38·2	48·3	19·3	11·1
Santipore	26·3	17·5	8·8	...	Bhagulpore	26·2	9·9	16·3	
Jessore		6·1	6·1	12·2	Monghyr	57·9	58·8	37·1	46·1
Rampore Beauleah	63·1	39·4	31·5	36·8	Purneah	10·4	20·8	6·9	13·9
Darjiling	22·2	51·9	51·9	14·8	Poori	14·7	18·9	16·8	16·8
Dacca	13·0	18·8	24·0	13·0	Total ...	29·7	29·5	25·0	19·4

It will be seen that last week the highest birth-rate was returned from Naraingunj (70·4) and the lowest from Midnapore (7·7). No births were registered during the week in Utterpara, Santipore, Chittagong and Bhagulpore towns.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 20·4 per 1,000 of the population. The rate of the week is 10·5 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	32·6	36·9	24·2	34·3	20·3	30·9	20·4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 4th Oct. 1890.	11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	Towns.	Weeks ending— 4th Oct. 1890.	11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.
Burdwan	30·5	24·4	22·9	22·9	Naraingunj	16·6	37·3	24·8	41·4
Midnapore	15·5	27·9	13·4	9·3	Chittagong	9·4	16·4	14·1	...
Hughli and Chinsurah	34·6	27·9	29·5	14·6	Comillah	7·7	15·4	11·6	23·1
Serampore	29·4	43·2	47·1	39·3	Patna City	14·9	20·4	15·9	15·9
Utterpara	28·3	28·3	37·7	...	Gya	47·1	54·0	60·1	34·8
Howrah	18·9	18·3	17·3	19·5	Arrah	13·2	23·9	12·0	6·4
Bali	24·6	26·1	24·6	25·1	Muzufferpore	25·5	24·3	38·9	14·6
Krishnagar	19·9	5·7	7·6	3·8	Durbhanga	35·4	26·7	20·5	29·9
Ranaghat	6·0	12·0	24·0	24·0	Chupra	34·2	27·2	20·1	
Santipore	12·3	3·5	8·8	...	Bhagulpore	14·5	14·5	17·3	...
Jessore	18·4	30·6	...	30·6	Monghyr	30·7	29·8	21·7	24·4
Rampore Beauleah	36·6	49·7	42·0	49·9	Purneah	10·4	17·3	6·9	20·8
Darjiling	22·2	44·5	51·9	44·5	Poori	25·2	42·0	25·2	16·9
Dacca	17·5	18·2	18·2	25·9	Total ...	23·0	25·3	22·3	20·4

It will be seen that last week the highest mortality occurred in the town of Serampore (60·8) and the lowest in Krishnagar (3·8). No deaths were registered during the week in Utterpara, Santipore, Chittagong and Bhagulpore towns.

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes occurred in the followin g towns :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Chupra	7·0	Darjiling	44·5	Serampore	13·7
Mozufferpore	6·1	Rampore Beauleah ...	36·8	Gya	12·9
Arrah	6·0	Serampore	31·4	Poori	12·6
Patna City	3·6	Jessore	30·6		
Monghyr	3·6	Narainganj	24·8		
Durbhanga	3·1	Gya	21·2		

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1·9 from cholera, against 2·2 per 1,000 in the preceding week; 10·4 from fever, against 11· ; 2·8 from bowel-complaints, against 3·7 ; ·4 from injury, against ·1 ; and 4·8 from other causes, against 5·7 in the preceding week. The mortality from bowel-complaints is noticeably severe only in the Serampore town, there being six deaths (11·8 per 1,000 of the population). No deaths were registered from small-pox during the week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	19·6	Christians ...	7·5	Under 1 year ...	143·4
Females	21·3	Hindus ...	20·9	1 and under 5 years ...	30·8
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	92	Mahomedans ...	19·8	5 „ 10 „ ...	16·0
				10 „ 15 „ ...	16·2
				15 „ 20 „ ...	11·6
				20 „ 30 „ ...	9·6
				30 „ 40 „ ...	16·0
				40 „ 50 „ ...	12·9
				50 „ 60 „ ...	14·1
				60 years and upwards ...	51·4

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 15th November 1890. *Sanitary Commissioner for Bengal.*

1	2	3			4			5			6	7							8						9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
												Disease.																		
					NUMBERS OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.								Sex.				
DISTRICTS.	NAMES OF MUNICIPALITIES.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS. Males.	DEATHS. Females.	RATIO PER 1,000 OF POPULATION PER ANNUM. Males.	RATIO PER 1,000 OF POPULATION PER ANNUM. Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	16,063	16,017	34,080	6	3	9	9·2	4·5	13·7	200	...	...	13	2	1	...	15	...	...	18·3	3·1	1·5	...	22·9	22·9	6	9	17·3	29·2	59
Midnapore ...	Midnapore ...	16,927	16,633	33,560	4	1	5	6·2	1·5	7·7	400	...	...	...	2	...	4	6	...	...	...	3·1	...	6·2	9·3	12·4	1	5	3·1	15·6	20
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	10	7	17	16·4	11·5	27·9	142	...	...	6	3	...	...	9	...	...	9·8	4·9	...	...	14·8	29·5	7	2	23·0	6·6	348
Serampore ...	Serampore ...	13,559	12,937	26,496	11	11	22	21·6	21·6	43·2	100	1	...	16	6	1	7	31	1·9	...	31·4	11·8	1·9	13·7	60·8	47·1	17	14	65·2	56·3	115
	Utterpara	3,046	2,464	5,510	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37·7	...	...	...	...	...
Howrah ...	Howrah	53,153	37,660	90,813	22	22	44	12·6	12·6	25·2	100	...	...	15	11	1	7	34	...	...	8·6	6·3	·6	4·0	19·5	17·8	14	20	13·7	27·6	49
	Bali	7,836	6,979	14,815	6	1	7	21·1	3·5	24·6	600	...	...	5	1	...	2	8	...	...	17·5	3·5	...	7·0	28·1	24·6	2	6	13·3	44·7	29
Nadden ...	Krishnagar ...	13,263	14,214	27,477	5	3	8	9·4	5·7	15·1	166	...	...	1	...	...	1	2	...	...	1·9	...	...	1·9	3·8	7·6	1	1	3·9	3·7	105
	Ranaghat	4,628	4,655	8,653	3	...	3	18·0	...	18·0	No female birth.	...	...	3	1	...	...	4	...	...	18·0	6·0	...	...	24·0	24·0	2	2	25·8	21·3	115
	Santipore	13,708	15,979	29,687	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·5	...	...	...	...	...
Jessore ...	Jessore	4,830	3,665	8,495	1	1	2	6·1	6·1	12·2	100	...	...	5	...	...	...	5	...	...	30·6	...	...	...	30·6	...	3	2	32·3	28·4	114
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	5	9	14	13·1	23·6	36·8	55	...	...	14	2	..	3	19	...	...	36·8	5·2	...	7·9	49·9	42·0	8	11	39·6	63·4	61
Darjiling ...	Darjiling	4,579	2,439	7,018	1	1	2	7·4	7·4	14·8	100	...	..	6	...	...	...	6	...	...	44·5	...	...	...	44·5	51·9	3	3	34·1	64·0	53
Dacca ...	Dacca	42,782	37,379	80,161	9	11	20	5·8	7·1	13·0	81	...	..	19	6	1	14	40	...	...	12·3	3·9	·6	9·1	25·9	18·2	23	17	28·0	23·6	118
	Narainganj ...	7,665	4,956	12,561	8	9	17	33·1	37·3	70·4	88	1	...	6	1	...	2	10	4·1	...	24·8	4·1	...	8·3	41·4	24·8	7	3	47·9	31·5	152
Chittagong ...	Chittagong ...	13,340	8,790	22,130	...	...	...	...	..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	14·1	...	...	...	..	...
Tipperah ...	Comillah	8,153	5,353	13,506	6	6	12	23·1	23·1	46·2	100	...	...	4	1	...	1	6	...	...	15·4	3·8	...	3·8	23·1	11·6	...	6	...	58·3	No male death.
Patna	Patna City ...	78,762	81,475	160,237	18	20	38	5·8	6·5	12·3	90	11	...	22	7	3	6	49	3·6	...	7·1	2·3	1·0	1·9	15·9	15·9	24	25	15 8	16·0	99
Gya	Gya	36,296	37,831	76,121	6	12	18	4·1	8·2	12·3	50	1	...	31	...	...	19	51	·7	...	21·2	...	...	12·9	34·8	60·1	27	24	36·7	33·0	111
Shahabad ...	Arrah	20,960	22,505	43,465	11	7	18	13·1	8·4	21·5	157	5	...	1	...	...	1	7	6·0	...	1·2	...	...	1·2	8·4	12·0	4	3	9·9	6·9	143
Mozufferpore..	Mozufferpore ...	23,084	19,658	42,742	12	8	20	14·6	9·7	24·3	150	5	...	4	2	...	1	12	6·1	...	4·9	2·4	...	1·2	14·6	38·9	5	7	11·3	18·5	61
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	21	25	46	16·5	19·7	36·2	84	4	...	25	2	...	7	38	3·1	...	19·7	1·6	...	5 5	29·9	20·5	16	22	24·6	35·4	69
Saran	Chupra	25,116	26,554	51,670	6	5	11	6·0	5·0	11·1	120	7	...	2	3	2	9	23	7·0	...	2·0	3·0	2·0	9·1	23·1	20·1	12	11	24·8	21·5	115
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17·2	...	...	...	...	...
Monghyr ...	Monghyr	28,154	29,366	57,520	39	12	51	35·3	10·8	46·1	325	4	...	11	4	...	8	27	3·6	...	9·9	3·6	...	7·2	24·4	21·7	15	12	27·7	21·2	130
Purneah ...	Purneah	8,463	6,553	15,016	2	2	4	6·9	6·9	13·9	100	...	...	5	...	...	1	6	...	...	17·3	...	...	3·5	20·8	6·9	4	2	24·6	15·9	154
Pooree	Pooree	13,247	11,537	24,784	4	4	8	8·4	8·4	16 8	100	...	...	...	3	...	6	9	...	...	...	6·3	...	12·6	18·9	25·2	7	2	27·5	9·0	305
	Total ...	550,986	510,588	1,061,574	216	180	396	10·6	8·8	19·4	120	39	...	213	57	9	99	417	1·9	...	10·4	2·8	·4	4·8	20·4	22 8	208	209	19·6	21·3	92

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards
Burdwan ...	Burdwan	...	11	4	...	...	...	24·2	20·3	...	...	2	2	1	...	2	1	4	1	2	...	157·6	46·1	22·3	...	33·3	6·6	30·2	11·8	42·4	...
Midnapore ...	Midnapore ...	...	6	...	...	...	...	12·0	...	...	...	...	...	...	1	...	1	1	1	1	1	...	...	...	17·1	...	7·1	9·4	14·0	25·2	28·4
Hughli ...	Hughli and Chinsurah	...	6	3	...	...	...	12·3	25·3	...	...	1	1	1	1	...	...	...	2	1	2	64·8	23·4	18·0	21·0	...	...	...	24·9	20·0	50·2
Serampore ...	Serampore ...	...	28	3	...	...	...	57·7	166·3	...	...	5	2	2	...	1	4	4	6	...	7	366·2	57·6	41·4	...	23·8	38·6	41·8	93·5	...	261·7
	Utterpara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Howrah ...	Howrah	...	22	12	...	...	...	16·8	30·4	...	...	2	3	3	3	1	4	5	1	3	9	50·4	28·2	24·8	23·7	7·1	9·2	13·5	4·4	28·4	124·8
	Bali	...	7	1	...	...	...	27·1	39·7	...	...	1	...	3	...	...	3	...	...	...	1	143·6	...	146·3	...	...	46·6	...	...	...	71·0
Nuddea ...	Krishnagar ...	...	2	...	...	...	...	5·6	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	15·9	...	30·1
	Ranaghat	...	3	1	...	...	...	21·3	33·1	...	...	...	2	2	...	...	...	...	...	...	...	...	133·8	93·3	...	...	...	...	...	...	...
	Santipore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jessore ...	Jessore	...	2	3	...	...	...	23·1	40·8	...	...	...	2	1	...	...	...	1	...	...	1	...	210·5	65·6	...	...	....	34·0	...	...	113·5
Rajshahye ...	Rampore Beauleah	...	10	9	...	...	...	52·5	47·7	...	...	3	3	3	1	1	...	4	1	...	3	384·2	110·0	75·0	28·9	31·3	...	57·7	21·2	...	162·6
Darjiling ...	Darjiling	...	6	...	...	...	...	67·9	...	...	...	...	2	...	1	1	...	2	...	...	...	...	164·7	...	106·6	61·3	...	72·6	...	...	...
Dacca	Dacca	...	20	20	...	...	...	25·3	26·4	...	...	8	4	2	3	1	7	3	2	1	4	219·2	29·2	10·5	19·6	7·1	23·8	13·4	43·4	11·0	37·3
	Naraingani ...	...	7	3	...	...	...	57·6	25·3	...	...	2	2	...	1	1	...	2	...	...	2	372·8	91·2	...	45·8	49·8	...	48·6	...	...	159·5
Chittagong ...	Chittagong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tipperah ...	Comillah	...	3	3	...	...	...	26·2	21·1	...	...	1	...	...	2	...	...	1	...	...	2	175·1	...	...	71·3	...	...	26·1	...	...	153·4
Patna	Patna City ...	1	36	12	...	...	146·5	15·7	15·3	...	...	7	5	2	2	3	3	9	3	4	11	84·5	17·8	6·2	7·2	14·0	5·4	20·1	8·3	14·7	41·4
Gya ...	Gya	...	39	12	...	...	...	33·8	38·3	...	...	13	8	3	9	1	4	5	3	3	2	377·7	65·5	23·3	69·5	9·9	14·1	29·4	16·0	23·7	20·2
Shahabad ...	Arrah	...	5	2	...	...	...	8·4	8·4	...	...	3	2	1	1	...	...	...	...	...	...	121·1	23·5	10·1	11·8	...	...	...	...	...	...
Mozufferpore ...	Mozufferpore ...	...	8	4	...	...	...	13·9	16·7	...	...	...	3	2	...	...	1	2	...	1	3	...	33·6	23·1	...	...	6·1	14·9	...	16·0	64·1
Durbhanga ...	Durbhanga ...	...	26	12	...	...	...	27·9	35·5	...	...	9	4	3	3	4	4	5	...	1	5	300·6	27·3	19·9	28·1	51·7	15·6	23·0	...	11·9	81·4
Saran	Chupra	...	19	4	...	...	...	24·9	17·5	...	...	6	4	3	...	...	1	3	1	2	3	221·1	40·3	26·2	...	...	5·6	29·0	8·6	25·2	45·9
Bhagulpore ...	Bhagulpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monghyr ...	Monghyr	...	24	3	...	...	...	27·9	12·4	...	...	5	4	2	2	1	5	...	2	1	5	175·1	33·4	14·7	18·1	13·8	25·1	...	16·3	13·1	72·5
Purneah ...	Purneah	...	5	1	...	...	...	28·3	9·2	...	...	1	...	...	...	1	1	2	1	...	...	183·7	...	...	...	52·3	15·8	36·5	28·0	...	...
Poori ...	Poori	...	9	..	...	...	...	19·1	...	...	...	1	2	...	...	...	...	1	1	1	3	171·6	57·9	...	...	...	...	12·8	15·6	23·3	86·4
	TOTAL ...	1	304	112	...	...	7·5	20·9	19·8	...	...	70	55	34	30	18	39	54	31	21	65	143·4	33·8	16·0	16·2	11·6	9·6	16·0	12·9	14·1	51·4

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, *Dip. Publ. Health, Camb.*,

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 8th November 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 8th November 1890.			Week ending Saturday, the 9th November 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	394	62,105	925	250	56,825	935
Jute	402	2,58,175	4,602	351	1,52,711	2,729
Firewood	139	62,125	865	213	93,975	1,463
Other articles	1,029	2,62,850	4,268	1,291	2,36,385	4,005
Total ...	1,964	6,45,255	10,660	2,105	5,39,896	9,132

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 15th November 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 15th November 1890.			Week ending Saturday, the 16th November 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	407	67,840	977	188	36,075	585
Jute	346	1,71,475	3,042	339	1,82,525	3,238
Firewood	152	87,125	1,249	166	1,23,415	1,279
Other articles	1,284	3,13,425	4,513	982	2,16,445	3,452
Total ...	2,189	6,39,865	9,781	1,675	5,58,460	8,554

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*220,310	*2,95,675 3 0	21,05,820 0	6,01,932 5 0	15,349 15 0	9,12,957 7 0	69,543½	84,788½	154,332½
Or per mile of railway	.....	193 13 2	.....	394 9 3	10 1 0	598 7 5	.....	.....	.....
For previous 18 weeks of half-year	4,010,299	41,74,906 5 0	3,31,20,139 0	76,39,872 13 6	2,91,055 6 8	1,21,05,924 9 2	1,152,201½	1,351,362½	2,503,464
Total for 19 weeks ...	4,230,609	44,70,671 8 0	3,53,13,959 0	82,41,805 2 6	3,06,405 5 8	1,30,18,882 0 2	1,221,745½	1,436,051	2,657,796½
Comparison.									
Total for corresponding week of previous year	282,696	3,42,566 12 6	20,76,541 30	5,53,735 8 3	21,222 9 10	9,17,524 14 7	66,987	81,284	148,271
Per mile of railway corresponding week of previous year ...	.....	224 9 0	.....	362 15 9	13 14 7	601 7 4	.....	.....	.....
Total to corresponding date of previous year	4,502,289½	48,63,358 13 9	3,94,13,925 20	86,53,947 4 6	3,25,881 6 0	1,38,43,187 8 3	1,240,758	1,515,014	2,755,772

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included traffic on account of "Rash Poornima" and Sonepur fair.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th November 1889.			Receipts for week ending 8th November 1890.			Total receipts from 1st April 1889 to 9th November 1889.			Total receipts from 1st April 1890 to 8th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,17,525	601	1,525½	9,12,957	598	1,525½	2,58,69,039	530	1,525½	2,41,37,812	494	.....	17,32,127

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,807	5,876 1 0	53,213 10	3,478 12 0	23 9 0	9,378 6 0	1,881½	561	2,442½
Or per mile of railway	189	102 11 8	930 20	60 13 1	0 6 7	163 15 4	.....	.....	.....
For previous 18 weeks of half-year	208,477	1,24,294 8 0	5,70,210 20	38,100 4 0	601 15 0	1,62,996 11 0	23,969½	9,563	33,532½
Total for 19 weeks ...	219,284	1,30,170 9 0	6,23,423 30	41,579 0 0	625 8 0	1,72,375 1 0	25,851½	10,124	35,975½
Comparison.									
Total for corresponding week of previous year	23,354	12,858 9 0	30,898 0	2,137 0 0	47 5 9	15,042 14 9	1,948	466	2,414
Per mile of railway corresponding week of previous year ...	406½	224 12 10	540 10	37 5 9	0 13 3	262 15 10	.....	.....	.....
Total to corresponding date of previous year	268,911	1,51,229 8 0	8,50,953 30	42,062 15 0	793 5 0	1,94,085 12 0	28,839	13,734	42,573

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th November 1889.			Receipts for week ending 8th November 1890.			Total receipts from 1st April 1889 to 9th November 1889.			Total receipts from 1st April 1890 to 8th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	15,043	263	57½	9,378	164	57½	3,08,082	168	57½	2,99,120	163	.....	8,962

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, *on* 22½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,121	4,687 5 0	13,076 20	511 1 0	6 6 0	5,204 12 0	912	5	968
Or per mile of railway ...	.....	210 10 8	.....	22 15 6	0 4 7	233 14 9	.....	.....	.....
For previous 18 weeks of half-year	290,747	70,777 6 0	1,08,779 20	4,310 6 0	94 4 0	75,211 11 0	16,256	838	17,094
Total for 19 weeks ...	308,868	75,464 6 0	1,21,856 0	4,851 7 0	100 10 0	80,416 7 0	17,168	894	18,062
Comparison.									
Total for corresponding week of previous year	22,576	5,902 12 8	12,780 10	510 8 0	4 9 6	6,417 14 2	889	79	968
Per mile of railway corresponding week of previous year ...	.....	265 4 8	.....	22 15 1	0 3 4	288 7 1	.....	.....	.....
Total to corresponding date of previous year	341,569	83,262 11 0	1,74,879 20	4,723 0 0	108 3 9	88,093 14 9	17,474	1,329	18,803

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 9th November 1889.			Receipts for week ending 8th November 1890.			Total receipts from 1st April 1889 to 9th November 1889.			Total receipts from 1st April 1890 to 8th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,413	233	22½	5,365	234	22½	1,70,731	240	22½	1,65,365	232	.....	5,466

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BENAR SECTIONS.)

Approximate Return of Traffic for week ended 1st November 1890, on 763 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	130,177	69,350 0 0	7,46,434 0	2,02,320 0 0	28,340 0 0	3,00,110 0 0	21,902	37,450	59,352
Or per mile of railway	171	91 0 0	978 0	265 0 0	†20 0 0	376 0 0	.....	... ..	.....
For previous 17 weeks of half-year	2,329,587	9,96,069 0 0	97,63,233 0	24,49,825 0 0	2,49,492 0 0	*36,95,386 0 0	366,597	555,627	922,224
Total for 18 weeks ...	2,459,764	10,65,419 0 0	1,05,09,667 0	26,52,145 0 0	2,77,832 0 0	39,95,396 0 0	388,499	593,077	981,576
COMPARISON.									
Total for corresponding week of previous year	163,336	84,462 0 0	6,09,347 0	1,51,357 0 0	38,889 0 0	2,74,708 0 0	23,992	30,659	53,651
Per mile of railway corresponding period of previous year ...	219	113 0 0	816 0	203 0 0	†26 0 0	342 0 0	.....	.....	.....
Total to corresponding date of previous year	2,488,134	11,04,661 0 0	1,12,78,337 0	27,45,241 0 0	3,03,693 0 0	41,53,595 0 0	406,268	567,632	973,900

* Audited up to week ending 30th August 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 2nd November 1889.			Receipts for week ending 1st November 1890.			Total receipts from 1st April 1889 to 2nd November 1889.			Total receipts from 1st April 1890 to 1st November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,74,708	368	763	3,00,010	393	713	62,89,037	285	759	*63,78,054	271	89,017	.....

* Audited up to week ending 30th August 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,608	9,100 0 0	53,291 0	4,650 0 0	50 0 0	13,800 0 0	3,660	1,992	5,652
Or per mile of railway	181	73 0 0	426 0	37 0 0	.....	110 0 0	.....	.....	.....
For previous 17 weeks of half-year	426,004	1,35,049 0 0	6,82,275 0	56,587 0 0	2,678 0 0	*1,94,314 0 0	60,639	34,884	95,523
Total for 18 weeks ...	449,612	1,44,149 0 0	7,35,566 0	61,237 0 0	2,728 0 0	2,08,114 0 0	64,299	36,876	101,175
COMPARISON.									
Total for corresponding week of previous year	27,078	10,800 0 0	35,310 0	2,522 0 0	359 0 0	13,681 0 0	3,587	2,085	5,672
Per mile of railway corresponding week of previous year ...	217	86 0 0	286 0	20 0 0	3 0 0	109 0 0	.....	.....	.....
Total to corresponding date of previous year	460,408	1,63,636 0 0	10,98,872 0	1,04,580 0 0	3,153 0 0	2,71,369 0 0	63,595	44,923	108,518

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 2nd November 1889.			Receipts for week ending 1st November 1890.			Total receipts from 1st April 1889 to 2nd November 1889.			Total receipts from 1st April 1890 to 1st November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
123	12,632	102	125	12,500	110	125	4,51,216	110	125	*2,73,622	98	.....	27,594

* Audited up to week ending 30th August 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	13,636	4,770 0 0	42,965 0	5,110 0 0	160 0 0	10,040 0 0	2,410	694	3,104
Or per mile of railway	159	56 0 0	500 0	59 0 0	2 0 0	117 0 0	.....	.....	.....
For previous 17 weeks of half-year	253,465	81,319 0 0	2,74,256 0	23,389 0 0	4,436 0 0	*1,09,144 0 0	40,371	12,069	52,440
Total for 18 weeks ...	267,101	86,089 0 0	3,17,221 0	28,499 0 0	4,596 0 0	1,19,184 0 0	42,781	12,763	55,544
Comparison.									
Total for corresponding week of previous year	10,064	6,434 0 0	24,675 0	2,707 0 0	28 0 0	7,169 0 0	2,524	712	3,236
Per mile of railway corresponding period of previous year	232	75 0 0	287 0	32 0 0	.....	107 0 0	.....	.....	.....
Total to corresponding date of previous year	265,364	84,744 0 0	4,03,430 0	31,816 0 0	3,763 0 0	1,20,323 0 0	44,963	15,753	60,716

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 2nd November 1889.			Receipts for week ending 1st November 1890.			Total receipts from 1st April 1889 to 2nd November 1889.			Total receipts from 1st April 1890 to 1st November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	9,169	107	86	10,040	117	86	1,94,602	73	86	*2,01,045	75	6,443	.....

* Audited up to week ending 30th August 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 1st November 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week ...	2,647	1,050	15,615	820	10	1,880	500	250	750
Or per mile of railway ...	97	39	573	30	.....	69	.....	.....	.....
For previous 17 weeks of half-year	49,747	17,596	1,76,269	9,584	259	*27,439	9,252	5,804	15,056
Total for 18 weeks ...	52,394	18,646	1,91,884	10,404	269	29,319	9,752	6,054	15,806
Comparison.									
Total for corresponding week of previous year	3,345	1,190	3,665	229	33	1,451	586	286	872
Per mile of railway corresponding period of previous year ...	123	44	134	8	1	53	.....	.....	.....
Total to corresponding date of previous year	55,548	20,232	1,52,868	10,077	1,387	31,696	10,398	6,510	16,908

* Audited up to week ending 30th August 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 2nd November 1889.			Receipts for week ending 1st November 1890.			Total receipts from April 1889 to End November 1889.			Total receipts from 1st April 1890 to 1st November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
27¼	1,451	53	27¼	1,880	69	27¼	57,275	68	27¼	*55,331	65	.....	1,944

* Audited up to week ending 30th August 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for Week ended 16th August 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week ...	74,720	28,084	2,69,224	31,521	6,419	66,024	11,688	11,151	22,830
Or per mile of railway	108·13	40·64	389·62	45·62	9·29	95·55	.....	.....	.....
For previous 5 weeks of half-year	421,213	1,64,522	14,50,166	1,55,831	34,990	3,55,343	63,365	69,287	132,652
Total for 6 weeks ...	(a)495,932	1,92,606	(b)16,74,390	1,87,352	*41,409	4,21,367	75,035	80,438	155,491
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year (649 miles) ...	78,407	26,819	3,89,358	45,742	8,090	80,633	10,061	16,863	26,924
Per mile of corresponding week of previous year	120·81	41·32	599·94	70·45	12·47	124·24	.....	.....	.....
Total to corresponding date of previous year	545,608	1,89,297	22,03,662	2,63,788	58,405	5,11,490	72,510	88,839	161,349

* Steam-boat earnings for the week, Rs. 4,690.
Do. do. to date, ,, 30,710.

FINANCIAL YEAR.

Approximate Statement of gross receipts.

Receipts for week ending 16th August 1890.			Receipts for week ending 17th August 1889.			Total receipts from 1st April 1890 to 16th August 1890.			Total receipts from 1st April 1889 to 17th August 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	66,024	95·55	649	80,633	124·24	663	17,41,812	133 26	649	18,27,347	141·79	.....	85,535

(a) Excludes 16,553 passengers, being traffic common to B. and N.-W. and T. Railways.
(b) Do. 76,743 maunds, do. do. do.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 23rd August 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	73,082	29,794 0 0	2,47,544 0	30,586 0 0	7,910 0 0	68,290 0 0	12,685	11,667	24,352
Or per mile of railway	105·76	43·12 0 0	358·24 0	44·26 0 0	11·45 0 0	98·83 0 0	.....	.....	.....
For previous 6 weeks of half-year	495,932	1,92,606 0 0	16,74,390 0	1,87,352 0 0	41,409 0 0	4,21,367 0 0	75,035	80,438	155,491
Total for 7 weeks ...	(a)569,014	2,22,400 0 0	(b)19,21,934 0	2,17,938 0 0	*49,319 0 0	4,89,657 0 0	87,738	92,105	179,843
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year (649 miles).	75,160	24,731 0 0	3,80,347 0	41,326 0 0	7,018 0 0	73,075 0 0	9,929	16,821	26,750
Per mile of corresponding week of previous year ...	115·81	38·11 0 0	586·05 0	63·68 0 0	10·81 0 0	112·60 0 0	.....	.....	.....
Total to corresponding date of previous year	620,768	2,14,028 0 0	25,84,009 0	3,05,114 0 0	65,423 0 0	5,84,565 0 0	82,430	1,15,660	198,099

* Steam-boat earnings for the week, Rs. 5,260.
Do. do. to date ,, 35,970.

FINANCIAL YEAR.

Approximate Statement of gross receipts.

Receipts for week ending 23rd August 1890.			Receipts for week ending 24th August 1889.			Total receipts from 1st April 1890 to 23rd August 1890.			Total receipts from 1st April 1889 to 24th August 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	68,290	98·83	649	73,075	112·60	665	18,13,337	131·64	649	19,00,422	140·39	.....	87,085

(a) Excludes 19,318 passengers, being traffic common to B. and N.-W. and T. Railways.
(b) Do. 1,05,945 maunds, do. do. do.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 30th August 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	62,325	23,240	2,54,750	31,772	6,609	61,621	11,939	11,209	23,168
Or per mile of railway	90·20	33·63	368·67	45·96	9·57	89·18	.....	.....	.....
For previous 7 weeks of half-year	569,014	2,22,400	19,21,934	2,17,938	49,319	4,89,657	.....	.....	... ..
Total for 8 weeks ...	(a)631,339	2,45,640	(b)21,76,684	2,49,710	*55,928	5,51,278	87,738	92,105	179,843
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year, 649 miles open...	74,080	24,751	3,16,405	31,247	6,809	62,807	9,995	13,615	23,610
Per mile of railway corresponding week of previous year ...	114·14	38·14	487·53	48·15	10·49	96·78	.....	.....	.....
Total to corresponding date of previous year	694,848	2,38,779	29,00,414	3,36,361	72,232	6,47,372	92,434	129,475	221,909

* Steam-boat earnings for the week, Rs. 4,960.
Do. do. to date, „ 40,930.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 30th August 1890.			Receipts for week ending 31st August 1889.			Total receipts from 1st April 1890 to 30th August 1890.			Total receipts from 1st April 1889 to 31st August 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	61,621	89·18	649	62,807	96·78	668	18,74,958	129 65	649	19,63,026	138 ·38	.....	88,068

(a) Excludes 22,083 passengers, being traffic common to Bengal and North-Western Railway.
(b) Do. 1,22,013 maunds, ditto ditto ditto.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 1st November 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 691 miles open)	66,700	29,130	3,52,680	45,016	10,020	84,160	12,386	14,765	27,151
Or per mile of railway	96·53	42·15	510·39	65·16	14·50	121·79	.....	...	.....
For previous 16 weeks of half-year	1,221,310	4,70,699	41,36,194	5,12,280	1,08,167	10,91,146	203,576	189,810	393,386
Total for 17 weeks ...	1,288,010	4,99,829	44,88,874	5,57,290	*1,18,187	11,75,306	215,962	204,575	420,537
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year, 649 miles open...	83,163	33,882	2,30,241	24,122	10,516	67,220	10,330	10,917	21,447
Per mile of corresponding week of previous year...	128·14	50·20	354·76	37·17	16·20	103·57	.....	.....	.....
Total to corresponding date of previous year	1,291,423	4,76,256	46,63,175	5,55,423	1,88,994	11,50,673	197,130	223,724	420,854

* Steam-boat earnings for the week, Rs. 7,500.
Ditto ditto to date, „ 39,990.

* Ajodhya bridge earnings for the week, Rs. 190.
Ditto ditto to date, „ 4,630.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 1st November 1890.			Receipts for week ending 2nd November 1889.			Total receipts from 1st April 1890 to 1st November 1890.			Total receipts from 1st April 1889 to 2nd November 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
691	84,160	121·79	649	67,220	103·57	673	24,26,295	126·29	649	24,66,251	126·15	25,695	.....

N.B.—Earnings of E. and N.-W. Section.	Week ended 1-11-90.	Week ended 2-11-89.	Earnings of Tirhoot Section.	Week ended 1-11-90.	Week ended 2-11-89.
	Rs.	Rs.		Rs.	Rs.
Coaching ...	14,076	12,520		15,054	15,351
Goods ...	12,514	9,220		22,546	14,201
Other earnings ...	3,450	3,997		4,960	6,913

[REGISTERED No. 29.]

No. 48 of 1890.

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, NOVEMBER 26, 1890.

OFFICIAL PAPERS.

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REPORT ON THE STATE OF THE SALT MARKET FOR THE SECOND QUARTER OF 1890-91.

No. 830B, dated Calcutta, the 14th November 1890.

From—K. G. GUPTA, Esq., Secretary to the Board of Revenue, L.P.,

To—The Secretary to the Government of Bengal, Financial Department.

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the second quarter of 1890-91, comprising the months of July, August, and September 1890.

SALT.

The HON'BLE F. M. HALLIDAY.

2. The quantity of salt of every description cleared during the quarter under report amounted to 25,14,57[illegible] maunds 20 seers 8 chittacks, against 26,51,986 maunds 8 seers 5 chittacks in the previous quarter, and 23,98,512 maunds 30 seers 14 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 58,64,525-11, against Rs. 62,34,543-12 in the previous quarter, and Rs. 55,10,452-14 in the corresponding quarter of the previous year.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are shown in table I :—

TABLE I.

	Cuttack.	Pooree.	Balasore.
		Mds. s.	Mds. s.
Balance at close of the last quarter	.....	81,882 0	1,570 0
Manufactured or added during the quarter	.....	59,964 0	990 0
Total ...	.....	1,41,846 0	2,560 0
Sales during the quarter	.....	36,102 20	... ..
Wastage	.....	.....	.....
Total ...	.....	36,102 20	.....
Balance at close of the quarter	.....	1,05,743 20	2,560 0

4. The total sale of excise salt during the quarter under review amounted to 36,102 maunds 20 seers, against 46,297 maunds in the previous quarter and 12,101 maunds in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the Port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarters of the previous two years :—

TABLE II.

	1888-89.		1889-90.		1890-91.	
	2nd quarter.		2nd quarter.		2nd quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool pungah	23,42,554	20,31,936	14,67,169	17,14,048	18,43,107	16,15,682
Foreign kurkutch	2,49,885	2,03,473	2,29,083	4,00,462	6,0[illegible],286	6,14,903
Indian ditto	1,81,550	1,45,398	1,69,228	1,67,498	1,55,628	1,54,573
Total ...	27,73,989	24,70,807	18,65,480	22,82,008	26,01,021	23,85,158

6. The following are the details of the Indian kurkutch salt shown in the above table :—

TABLE III.

	1888-89.		1889-90.		1890-91.	
	2nd quarter.		2nd quarter.		2nd quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bombay	1,81,550	1,45,369	1,58,932	1,57,202	1,52,830	1,51,775
Cocconada	.....	.....	9,796	9,796	2,798	2,798
Madras	.....	.....	500	500	.....	.....
Rangoon	.....	29	.....	.....	.....	.....
Total ...	1,81,550	1,45,398	1,69,228	1,67,498	1,55,628	1,54,573

7. Table IV shows the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the results of the previous four quarters :—

TABLE IV.

WHERE STORED.	Second quarter of 1889-90.	Third quarter of 1889-90.	Fourth quarter of 1889-90.	First quarter of 1890-91.	Second quarter of 1890-91.
	Mds.	Mds.	Mds.	Mds.	Mds.
Saltpe Government golahs	23,08,265	17,41,940	23,11,943	19,60,547	21,94,996
Chittagong ditto ditto	1,42,880	67,587	1,21,633	99,605	93,576
Total ...	24,86,145	18,09,427	24,33,576	20,60,152	22,87,969

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review and the corresponding quarters of the previous two years, are shown in the table below:—

TABLE V.

PERIOD.	*Vid* Balikhal.	*Vid* Sankrail.	*Vid* Gewakhally.	*Vid* Kidderpore.	*Vid* Balliaghatta.	*Vid* Ruthtollah Ghat.	By the East Indian Railway.	By the Eastern Bengal and South-Eastern Railways or *vid* Chitpore.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Second quarter of 1888-89 ...	4,88,371	1,56,572	45,293	1,23,110	3,24,979	5,090	7,36,777	2,57,938
Ditto of 1889-90 ...	4,49,757	1,41,318	40,912	85,625	3,77,037	2,803	8,13,672	1,95,427
Ditto of 1890-91 ...	4,09,395	1,47,065	53,782	1,11,075	3,73,488	1,527	6,85,609	3,05,482

9. The quantity of salt despatched by the East Indian Railway to stations beyond Buxar during the quarter under review amounted to 3,037 maunds 20 seers, as noted in the margin, against 3,341 maunds 10 seers in the previous quarter and 1,518 maunds 30 seers in the corresponding quarter of the previous year.

	Mds.	s.
July	607	20
August	1,215	0
September ...	1,215	0
Total ...	3,037	20

10. The shipments of Liverpool salt for the Port of Calcutta, according to published market reports, were as follow:—

	Tons.
July	24,930
August	12,890
September	23,840
Total ...	61,660

11. Table VI shows the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter as compared with those obtaining during the same period last year:—

TABLE VI.

DESCRIPTION OF SALT.	Prices on the 15th July		Prices on the 31st July		Prices on the 15th August		Prices on the 31st August		Prices on the 15th September		Prices on the 30th September	
	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool pungah ...	92	81	88	84	88	77	90	72	98	73	98	77
French kurkutch ...	61	...	61	...	...	...	...	...	...	...	...	...
Jedda ditto ...	58	50	58	49	58	47	58	44	58	46	58	46
Bombay ditto ...	70	50	70	52	70	55	70	56	60	56	65	56
Italian ditto ...	62	...	62	...	...	...	...	...	...	...	...	...
Muscat ditto ...	62	55	62	51	62	52	60	52	59	43	59	43
Rock	75	70	75	70	75	65	75	65	75	60	75	60

12. The following table shows the quantity of sea-imported salt admitted into bond and cleared from bond and shipboard at Chittagong and Naraingunge during the quarter under review and the corresponding quarter or 1889-90:—

TABLE VII.

PORT.	DESCRIPTION OF SALT.	ADMITTED INTO BOND.		CLEARED.	
		Second quarter of 1889-90.	Second quarter of 1890-91.	Second quarter of 1889-90.	Second quarter of 1890-91.
		Mds. s.	Mds. s.	Mds. s.	Mds. s.
Chittagong ...	Liverpool pungah	55,256 0	56,960 0	60,067 23	31,080 0
	Burmah ditto	.....	.....	0 5	.....
	Madras kurkutch	.....	.....	0 15	.....
	Bremen	.....	.....	.....	12,072 0
Naraingunge ...	Liverpool pungah and Bremen	.....	.....	44,055 0	48,484 11
	Total ...	55,256 0	56,960 0	1,04,143 8	91,636 11

No transactions in sea-imported salt have been reported for the quarter from the Ports of Cuttack, Pooree, and Balasore.

RESOLUTION REVIEWING THE REPORTS ON THE WORKING OF MUNICIPALITIES IN BENGAL DURING 1889-90.

MUNICIPAL DEPARTMENT—MUNICIPAL.

Calcutta, the 21st November, 1890.

RESOLUTION.

READ—

The reports from the several Commissioners of Divisions on the working of the Municipalities in Bengal (except Calcutta) during the year 1889-90.

Read again—

The Resolution reviewing the divisional reports on the working of Municipalities during the year 1888-89.

The following Resolution reviews the reports submitted by Commissioners of Divisions on the working of municipalities during the year 1889-90.

2. *Number of Municipalities.*—The total number of municipalities in existence at the close of the year was 147 as in the preceding year. The municipalities of Assensole and of the Suburbs of Calcutta were abolished for reasons explained in paragraph 4 of last year's Resolution; and two new municipalities, namely Cossipore-Chitpore and Munickollah, comprising portions of the Suburban Municipality, were established during the year. Since the close of the year the Khagoul and Garwa manicipalities have been abolished.

The statement in Appendix A shows the date of establishment of each municipality in the province, the population within municipal limits, and the actual number of rate-payers in each. The average proportion of rate-payers to the whole population in the municipalities for which complete figures are given was 17·9 per cent., against 17·85 of the previous year.

3. *Elective System.*—The system under which two-thirds of the total number of Commissioners fixed for each municipality are elected by the rate-payers was in force in all the municipalities except those named below:—

Bettiah.	Gurwa.	Lohardugga.
Chanduria.	Jajpore.	Nalchitty.
Chogda.	Jamui.	Netrokona.
Chyebassa.	Jehanabad.	Perozepore.
Colgong.	Jhalda.	Raghunathpore.
Cox's Bazar.	Jhalokati.	Roserah.
Daltongunge.	Julpigoree.	Sitamarhi.
Darjeeling.	Kendrapara.	Sonamuki.
Daudnugger.	Khoolna.	Tikari.
Debhatta.	Lalgunge.	

4. *Results of elections held during the year.*—The two newly-formed municipalities of Cossipore-Chitpore and Manicktollah having been allowed the franchise, the first general elections were held in them. Out of 3,026 and 1,507 registered voters in those towns, 944 and 822 persons respectively attended the poll and voted. The elections were warmly contested in several wards, and it is said that the people generally took a lively interest in the matter. Of 103 bye-elections held under section 27 to fill up vacancies in the ranks of Commissioners, 91 were conducted successfully; the remaining 12 failed owing to nominations of candidates not having been submitted by the electors, within the time prescribed by the rules. The largest attendance of voters at the poll was 70·7 of the total number of qualified voters. These minor elections, the details of which are furnished in the table in Appendix B, appear to have excited no particular interest in most cases.

5. *Constitution of Committees.*—The following statement shows, division by division, the constitution of the Committees of the various municipalities during the year:—

Division.	Nominated.	Elected.	Total.	Officials.	Non-officials.	Europeans.	Natives of India.	Remarks.
Burdwan	136	228	364	48	316	21	343	The professional occupation of Municipal Commissioners is not stated in all the Reports. This point is, however, one of much importance and full information will be given in future years.
Presidency	230	327	557	53	504	24	533	
Rajshahye	88	97	185	44	141	35	150	
Dacca	110	107	217	33	184	12	205	
Chittagong	33	40	73	17	56	6	67	
Patna	179	190	369	76	293	45	324	
Bhagulpore	79	85	164	23	142	23	141	
Orissa	42	33	75	28	47	8	67	
Chota Nagpore	71	37	108	22	86	16	92	
Total ...	968	1,144	2,112	343	1,769	190	1,922	

The following table shows the percentage of officials and Europeans to the total number of Commissioners during 1889-90 and the previous eight years:—

	Officials.	Europeans.		Officials.	Europeans.
1881-82 ...	26·3	22·9	1886-87 ...	15·6	9·1
1882-83 ...	25·3	21·7	1887-88	16·2	9·4
1883-84 .	24·5	21·2	1888-89 ...	16·0	8·9
1884-85 ...	18·0	12·1	1889-90 ...	16·1	9·0
1885-86 ...	16·1	10·1			

It is clear that, so far as the *personnel* of the Municipal Committees is concerned, full scope has been given to the principle of allowing the townspeople to manage their own affairs.

6. *Meetings of Committees.*—The largest number of meetings held by any municipality was 41 at Serampore with an average attendance of 56·8 per cent. of the members. The highest average percentage of attendance was attained in the municipalities noted in the margin. The following table shows the municipalities which held more than twenty meetings with the average percentage of attendance at each meeting:—

Name of Municipality.	No. of meetings.	Percentage of attendance.
Kandi ...	23	91·8
Debhatta ...	25	87·5
Cossipore-Chitpore ...	11	87·5
Colgong ...	15	86·3
Satkhira ...	25	84·1

District.	Name of Municipality.	Number of meetings.	Average percentage of attendance.
Hooghly ...	Serampore ...	41	56·8
Howrah ...	Bali ...	32	63·7
Pooree ...	Pooree ...	31	49
Nuddea ...	Santipore ...	28	40·8
Patna ...	Dinapore Nizamut ...	27	59·4
Rajshahye ...	Nattore ...	27	46
Nuddea ...	Coomarkholly ...	27	43·3
Burdwan ...	Burdwan ...	26	54·7
Khoolna ...	Debhatta ...	25	87·5
	Satkhira ...	25	84·1
Furreedpore	Madaripore ...	25	66·6
Burdwan ...	Dainhat ...	24	61·5
Dacca ...	Dacca ...	24	47·6
Moorshedabad ...	Kandi ...	23	91·8
Maldah ...	Old Maldah ...	23	35·8
Mymensing ...	Sherepore ...	23	32·7
24-Pergunnahs ...	Baranagore ...	22	70
	Joynagore ...	22	60·8
Furreedpore ...	Furridpore ...	22	44·4
Moorshedabad ...	Jungipore ...	22	41·6
Manbhoom ...	Raghunathpore ...	22	25·4
24-Pergunnahs .	North Barrackpore ...	21	57·7
Mymensingh ...	Nasirabad ...	21	56
Howrah ...	Howrah ...	21	54·3
Burdwan ...	Cutwa ...	21	46·6
Nuddea ...	Ranaghat ...	21	44·6
Tipperah ...	Comilla ...	21	43·3

The smallest number of meetings was held in the municipalities of Balasore and Jugdishpore, where the Commissioners met only once a quarter with an average percentage of attendance of 62·5 and 50· respectively.

Detailed information on the subject of the meetings held by the various municipalities is given in Appendix C. The attendance was on the whole satisfactory, and the statistics show that a large amount of time and trouble was gratuitously and unsparingly devoted by the Municipal Commissioners to the discharge of their duties.

7. *Municipal Benches.*—The Municipal Benches in the province tried 16,604 cases of nuisance and breach of conservancy rules, in which 14,730 persons were convicted and 2,209 acquitted. The average amount of fines imposed on each offender varied from Rs. 4-2-8 in Jamalpore, in the Monghyr district, to Re. 0-2-1 in the Nuddea Municipality. The statement below shows the work done in detail:—

Division.	Name of the Municipal Bench.	Number of cases tried.	Number of persons convicted.	Number of persons acquitted.	Number of persons remaining under trial at the close of the year.	Amount of fines inflicted.	Amount of fines realised.
						Rs. A. P.	Rs. A. P.
Burdwan ...	Burdwan ...	1,073	921	138	18	401 10 0	362 0 0
	Culna ...	119	102	17	...	38 8 6	38 8 6
	Cutwa ...	11	11	...	...	5 12 0	5 12 0
	Dainhat ...	16	12	1	4	2 5 0	2 5 0
	Raneegunge ...	195	191	4	...	68 3 0	68 3 0
	Hooghly andChinsurah	270	257	17	...	459 12 0	459 12 0
	Serampore ...	118	107	16	2	165 4 0	150 4 0
	Utterpara ...	86	90	1	...	103 15 0	98 15 0
	Bansberia ...	88	72	16	..	27 0 0	27 4 0
	Baidyabati ...	163	155	6	2	239 5 0	239 5 0
	Bhudreswar ...	119	101	5	13	103 10 0	103 10 0
	Kotrung ...	20	20	1	...	23 0 0	23 0 0
	Howrah ...	2,682	2,359	190	7	6,050 15 0	5,481 0 3
	Bali ...	204	217	32	...	154 0 0	179 6 0*
	Midnapore ...	386	318	105	...	346 3 0	299 1 0
	Tumlook ...	175	183	7	...	92 9 0	92 9 0
	Ghattal ..	40	44	8	...	15 14 0	15 14 0
	Chandrakona ...	120	125	...	..	120 3 0	113 15 0
	Total ...	5,885	5,295	564	46	8,418 0 6	7,760 11 9
Presidency ...	North Dum-Dum ...	91	91	3	...	89 8 0	89 8 0
	South ditto ...	101	85	16	...	163 8 0	163 8 0
	Joynagore ...	62	52	11	...	50 0 0	50 0 0
	Goverdanga ...	19	16	3	...	20 6 0	20 6 0
	Barripore ..	149	130	8	15	114 6 0	114 6 0
	Rajpore ..	240	226	21	1	168 12 0	168 12 0
	South Barrackpore ...	150	133	32	1	203 0 0	203 0 0
	South Suburban ..	209	124	85	...	207 0 0	207 0 0
	Baranagore ...	98	72	27	3	42 4 0	42 4 0
	North Barrackpore ...	294	257	55	9	261 10 0	261 10 0
	Krishnaghur ...	162	153	13	1	196 1 0	196 1 0
	Nuddea ...	239	233	6	...	30 11 0	30 11 0
	Ranaghat ...	88	74	14	...	51 1 0	51 1 0
	Santipore ...	218	183	34	2	138 12 0	138 12 0
	Jessore ...	211	153	40	...	211 12 6	196 12 6
	Moheshpore ...	48	64	5	18	42 10 0	42 10 0
	Kotchandpore ...	41	34	7	...	62 9 3	62 9 3
	Berhampore ...	184	145	46	2	158 13 0	158 13 0
	Total ...	2,604	2,225	426	52	2,212 11 9	2,197 11 9
Rajshahye ...	Nattore ...	99	90	9	...	86 0 0	86 0 0
	Sherepore ...	75	64	11	...	46 0 0	34 0 0
	Total ...	174	154	20	...	132 0 0	120 0 0
Dacca ...	Dacca ...	407	[illegible]	66	9	264 0 0	264 0 0
	Naraingunge ...	120	[illegible]	2	...	228 3 0	228 3 0
	Furreedpore ...	84	[illegible]	1	1	37 4 0	37 4 0
	Burrisal ...	30	27	5	...	40 2 0	40 2 0
	Total ...	591	545	74	10	569 9 0	569 9 0
Chittagong ...	Chittagong ...	88	54	47	...	68 15 0	68 15 0

* Including arrears.

Division.	Name of the Municipal Bench.	Number of cases tried.	Number of persons convicted.	Number of persons acquitted.	Number of persons remaining under trial at the close of the year.	Amount of fines inflicted.	Amount of fines realised.
						Rs. A. P.	Rs. A. P.
Patna ...	Patna ...	2,129	1,855	209	2	1,482 14 9	1,482 12 6
	Barh ...	235	211	24	..	115 15 0	115 15 0
	Gya ...	903	708	191	4	1,013 13 6	1,073 5 0*
	Daudnagar ...	33	7	26	...	75 0 0	75 0 0
	Arrah ...	237	186	101	...	216 2 0	216 2 0
	Mozufferpore ...	879	795	154	...	391 5 3	391 5 3
	Durbhunga ...	635	719	10	...	268 9 6	268 9 6
	Madhubani ...	290	340	11	...	131 14 6	131 14 6
	Roserah ...	208	164	44	...	109 1 0	109 1 0
	Chupra ...	115	80	35	...	60 6 0	60 6 0
	Revilgunge ..	112	145	21	1	181 12 0	181 12 0
	Total ...	5,776	5,210	826	7	4,046 13 6	4,106 2 9
Bhagulpore ...	Monghyr ...	269	218	73	65	738 6 6	738 6 6
	Jamalpore ...	51	38	15	...	158 8 0	158 8 0
	Bhagulpore ...	738	600	121	17	420 13 3	420 13 3
	Colgong ...	191	164	33	Nil	85 14 0	77 9 0
	Sahebgunge ...	237	227	10	...	192 9 0	192 9 0
	Total ...	1,486	1,247	252	82	1,596 2 9	1,587 13 9
	Grand Total ...	16,604	14,730	2,209	197	17,044 4 6	16,411 0 0

* The excess of Rs. 59-7-6 represented arrear collections.

A Municipal Bench was established during the year at Tikari, but its working commenced from 19th March last. There were no Municipal Benches in any of the municipalities in the Chota Nagpore and Orissa Divisions.

8. *Assessments.*—The statement in Appendix D shows the mode of assessment prevailing in each municipality in the province, the rate at which the tax on holdings or on persons according to their circumstances and property within municipal limits was levied, and the result of any revision of assessment made during the year. The tax on holdings was in force in 36 municipalities, and was levied at rates below the maximum ($7\frac{1}{2}$ per cent. per annum on the annual value of holdings) in the following 13 places :—

Name of Division.	Name of Municipality	Rate of tax.	
Burdwan ...	Hooghly and Chinsurah ...	... $6\frac{1}{4}$	
Presidency ...	Krishnaghur ...	... 6	
	Ranaghat ...	... $6\frac{1}{4}$	
	Santipore ...	... $6\frac{1}{2}$	
Rajshahye ...	Darjeeling ...	... 7	The legal maximum in these municipalities is 10 per cent.
Dacca ...	Dacca ...	... 8	
	Naraingunge ...	... 6	
Patna ...	Sewan ...	... 7	
Bhagulpore ...	Monghyr ...	... 6	
	Jamalpore ...	... 7	
	Bhagulpore ...	... 5	
	Purneah ...	... 6	
	Sahebgunge ...	... $3\frac{1}{2}$	

In regard to the Burdwan Division the Commissioner remarks :—"The maximum rate of $7\frac{1}{2}$ per cent. was levied in all the municipalities in which the tax on holdings was in force, with the exception of Hooghly and Chinsurah, where it was only $6\frac{1}{4}$ per cent. This town has many sanitary wants, and the full rate might, I think, be levied with advantage to the health of the inhabitants. The people are exceedingly well off, and I see no reason why the rate should be lower in this town than in the others." This observation is applicable to most of the other municipalities specified in the above statement. In the Bhagulpore Division the rate is levied below the maximum in every place where a rate is imposed, and it seems that in both Bhagulpore and Monghyr it should be increased: it is satisfactory to see that in Sahebgunge, where the rate is the lowest in the province, it has been raised to 5 per cent. in the current year. In the Nuddea Municipalities, the rates are still unduly low. It is not too much to say that in all municipal towns in Bengal there is a crying want of funds to meet expenditure which is gradually being

forced upon the Commissioners, especially in the direction of improved sanitation. It is equally true that, whether the taxation is based on assessment of holdings, or (as Appendix D will show is more usually the case) on persons according to their circumstances and property, the present rate of taxation is exceedingly low and far from oppressive on the rate-payers. The tax on persons varies at rates from 8 annas to one rupee per cent. on the estimated income of the assessee. The average incidence of municipal taxation throughout Bengal (excluding Calcutta) during the past year was only 11 annas and 11 pies per head of the population, and in no less than 67 municipalities the incidence is so low that it amounts to 8 annas or less per head. The lowest place in the list is taken by Lalgunge in Mozufferpore, where the rate is only two annas and seven pies. By way of comparison it may be noted—the figures are taken for the year 1886-87—that the incidence per head of municipal taxation proper (exclusive of Presidency towns) is in Bombay Re. 1-4-5 and in the Punjab Re. 1-2-6. In Madras it is annas 11-11 and in the North-Western Provinces annas 11-1. These figures show how very moderate is the incidence of municipal taxation in India generally; and especially that it is low in Bengal, where the wealth of the people and their standard of comfort are greater than in other provinces. It is obvious therefore that there is scope for some increase in municipal taxation; and unless there is such an increase, it is impossible that reforms can be undertaken. Under sections 88 and 97 of the law the period during which an assessment once made shall continue in force should be three years only. The object of this provision is that the assessment of holdings and of the tax upon persons should be revised periodically as the prosperity of towns increases; but in many cases it is to be feared that the law is overlooked, and the old assessment allowed to continue unchanged for too long a period. As an instance of this neglect, the Lieutenant-Governor observes that a general revision of assessment was made during the past year in the Comilla Municipality after so long a period as twelve years. On the other hand, His Honour recognises the signs of more vigorous municipal administration in several important places, and he is glad to take this opportunity of intimating to Municipal Commissioners and the local executive authorities that they will always receive the support of Government in the discharge of the responsible duty of revising assessments. The duty is unfortunately a very invidious one, and in its fulfilment the Commissioners must often, as the reports of the past year sufficiently indicate, expect to incur serious unpopularity and obstruction; but the Lieutenant-Governor has no doubt that as a body they will not shrink from it on this account. The enforcement of proper municipal taxation in order to accomplish municipal improvements, and especially sanitary reform, of which all the towns in Bengal are so greatly in need, is one of of the most distinguishing marks of efficiency and aptitude in local self-government.

9. During the past year assessments were revised either generally or partially in 43 municipalities. The revision resulted in a loss of income in five places, viz., Burdwan (Rs. 469), Raneegunge (Rs. 142), Ramjibanpore (Rs. 7), Tikari (Rs. 1,166), and Behar. In the Durbhunga Municipality the assessment was revised, and, with the sanction of Government, the tax on persons was substituted for the rate on holdings. The tax is fixed at the rate of 1 per cent., and all persons having an income of less then Rs. 6 a month have been exempted. The net increase has not yet been determined, but it was expected to be about Rs. 6,000. The Lieutenant-Governor trusts that this expectation will be realised; but he is concerned to notice an observation in the Commissioner's General Administration Report, that the income of the municipality, "instead of increasing as was estimated, has fallen off, and when the Maharajah resumes possession of his market, which has been decreed to him by order of the Civil Court, there will be a further reduction." The reason of this apparent failure is not explained, but it is presumed that it is due to the opposition of the rate-payers, and is temporary only. Under somewhat similar circumstances the amount of increase obtained by revision of assessments in the Rampore Beauleah Municipality is reported to have been Rs. 2,042. The rate of tax on income of persons was raised from 8 to 12 annas per cent., and is therefore still very low, but the effect of the revision is thus described by the Chairman in his report:—"A hue and cry was raised, in which those whose

assessments had not been increased, nay, even those who had been exempted from assessment, joined. The municipal office was literally beseiged with objection petitions. A memorial was sent to His Honour the Lieutenant-Governor, complaining against the enhancement. A party of men, who affected to pose as friends of the poor, but who really had at heart some grudge against the municipality, actively set about rousing the people against it under this colourable pretext. For nearly two months there was scarcely any collection of house-tax. Everybody refused to pay. It was a time of serious trial of the Municipal Commissioners. By a policy of conciliation and firmness, and by promptly deciding the objections, order was restored." In Santipore, Purulia, Chupra, Monghyr, Cuttack, and Comillah, revisions of assessment led to increase of taxation unaccompanied apparently by any administrative difficulty. But in the petty municipality of Jugdishpore, in the Shahabad district, where the revision resulted only in an increase of Rs. 100 in the income, dissensions rose so high that a criminal case was instituted by one Municipal Commissioner against another, and some of the rate-payers who had sided with him, for obstructing him as he was returning from the municipal office after deciding some objections against enhanced assessment, and for threatening to kill him in case the tax was increased. The accused were convicted and sentenced to pay fines, and the sentence was upheld in appeal. A case even more scandalous than this occurred in the Tikari Municipality, where the Chairman was violently assaulted at his house by a gang of hired *lattials* instigated, according to common report, by an opponent on the Municipal Board, and the Vice-Chairman, who was conspicuous in opposition, was removed from his post.

The year's record shows indeed that the path of duty is strewn with difficulties, which can only be overcome by honest perseverance, consistency, and firmness; but it may be expected that as experience is gained in the benefits derived from municipal improvement, the attitude of the rate-payers, as well as of the more retrograde and obstructive section of Municipal Commissioners, will become, as it has in other portions of the world, more tolerant of necessary taxation.

10. *Fresh imposts levied during the year.*—The provisions of the Act regarding the levying of a tax upon the annual value of holdings were extended during the year to the new municipalities of Cossipore-Chitpore, Manicktolla, and South Suburbs. Sanction was also accorded to the levy by the Commissioners of the Kurseong, Serampore, Bali, English Bazar, and Khoolna municipalities of fees for the cleansing of private latrines within portions, or entire limits, of the respective municipalities.

11. *Extension of various provisions of the Municipal Act and Bye-laws sanctioned during the year.*—The conservancy and other provisions of Part VI of the Act, or portions of them, were extended during the year to Berhampore, Joynugger, Nasirabad, Naihatty, Jungipore, Kishoregunge, English Bazar, Dinapore Nizamut, and Comillah.

Part IX of the Act, which regulates the construction and cleansing of latrines, was extended to Serampore (Mahesh and Rishra and Connagore wards), Bali (excepting the villages of Belur and Malipanchghara), English Bazar, Khoolna, and a portion of Dinagepore.

Part X. which contains provisions for the regulation of markets, was extended to Soory, Bhagulpore, Bhabuah, and Lalbagh or City Moorshedabad.

Bye-laws were framed by the Commissioners of the following municipalities under section 350 of the Act, and confirmed by Government:—

Dinagepore.	Jamui.	Bazitpore
Purulia.	Netrokona.	Comillah.
Nasirabad.	Gya.	Bhagulpore.
Cuttack.	Raghunathpore.	Lalbagh.
Sherepore (district Mymensingh).	Kishoregunge.	Kurseong.
Darjeeling.	Chupra.	Lohardugga.
	Burrisal.	Furreedpore.

Rules for the protection of wild birds and game were framed by the Darjeeling and Cuttack Municipalities under Act XX of 1887, and confirmed by the Local Government.

12. *Income and expenditure.*—The following table compares the opening balances, income, expenditure and closing balances of municipalities, division by division, for the year 1889-90, and those of the preceding year:—

Division.	Opening balance.		Income during the year.		Total funds available for expenditure.		Total expenditure.		Closing balance.	
	1888-89.	1889-90.	1888-89.	1889-90.	1888-89.	1889-90.	1888-89.	1889-90.	1888-89.	1889-90.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Burdwan ...	90,908	82,947	6,33,367	6,41,058	7,24,275	7,24,005	6,41,243	6,56,816	83,032	67,189
Presidency ...	1,24,240	56,041	9,43,036	5,12,323	10,67,276	5,68,364	9,46,493	4,93,493	1,18,083	74,871
Rajshahye ...	50,408	33,105	2,75,876	2,76,258	3,26,284	3,09,363	2,93,179	2,71,463	33,105	37,900
Dacca ...	31,072	24,634	2,88,337	3,34,230	3,20,309	3,58,864	2,95,675	3,04,875	24,634	53,989
Chittagong ...	6,841	3,285	73,850	67,712	80,691	70,997	76,861	65,601	3,288	5,396
Patna ...	47,803	49,344	4,43,462	4,82,101	4,91,265	5,31,445	4,39,275	4,50,867	51,990	80,578
Bhagulpore ...	40,363	84,535	2,48,468	1,83,515	2,88,831	2,68,050	2,04,296	2,40,206	84,535	27,448
Orissa ...	7,022	1,868	89,521	86,786	96,543	88,654	94,735	85,020	1,868	3,634
Chota Nagpore ...	8,031	10,643	53,847	63,519	61,878	74,162	51,206	63,127	10,672	11,035
Total ...	4,07,588	3,46,402	30,49,764	26,47,502	34,57,352	29,93,904	30,42,963	26,31,468	4,11,207	3,62,436

The large discrepancy between the closing balance of 1888-89 of the municipalities in the Presidency Division and the opening balance for 1889-90, is due to the exclusion from the current accounts of the closing balance of Rs. 62,042 of the late municipality of the Suburbs of Calcutta. The small discrepancies in the other divisions have been explained by the local officers.

13. *Income.*—The total income of the municipalities in Bengal under Act III (B.C.) of 1884 amounted during the year to Rs. 26,47,502, against Rs. 30,49,764 of the previous year. This large apparent falling off is due to the dismemberment of the Suburban Municipality, and as the entire area included within that municipality has not been excluded from the operation of Act III (B.C.) of 1884, no satisfactory comparison can be made between the municipal accounts of 1889-90 and of previous years. Excluding, however, the income from the municipalities in the Presidency Division, the total income of all other municipalities shows an increase of Rs. 42,499 over the receipts of 1888-89. This increase is too small to be considered satisfactory, and is much less than that of previous years The income from taxation proper is shown, division by division (excluding the Presidency), in the following statement:—

Taxation proper.

	Burdwan.	Rajshahye.	Dacca.	Chittagong.	Patna.	Bhagulpore.	Orissa.	Chota Nagpore.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1888-89 ...	5,00,183	1,60,881	2,32,558	51,325	3,22,083	1,38,310	54,712	30,538	14,90,590
1889-90 ...	5,07,501	1,68,252	2,23,819	45,148	3,58,813	1,40,136	65,884	38,541	15,48,094
Increase or decrease ...	+7,318	+7,371	—8,739	—6,177	+36,730	+1,826	+11,172	+8,003	+57,504

The general result shows some improvement, but it is not so marked as might be expected, looking to the low rate of taxation which prevails, and the urgent need that exists everywhere for increased income to meet necessary expenditure. In regard to the Dacca Division, it is explained that the net decrease is to a large extent nominal, as the collections in 1888-89 included arrears of previous years, and were therefore considerably in excess of the normal realisations. In the case of the Chittagong Municipality, it is stated that a decrease of about Rs. 8,600 in the collections is due partly to the same cause as in the Dacca Division, and partly to the fact that for nearly three months the sircars had to attend on the auditor who was examining the accounts, and that in

consequence the collections were smaller than ought to have been made. These excuses appear to the Lieutenant-Governor to be insufficient. It is satisfactory that the arrears have been liquidated, but they ought not to have been allowed to accrue. In any case it is to be regretted that the total gross collections show a falling off. It is a too common defect in Bengal municipalities that the executive is in arrear with its collections and it has been lately pointed out in a circular of Government that far greater promptitude must be insisted on in the collection or remission of taxes. Not more than one complete year of arrears should in any case be allowed. Municipalities which, like Ranchi and Kurseong, work in a business-like manner never have more than two quarters' arrears, and very often not more than one; and if municipalities in general avail themselves of the means provided in sections 120 to 129 of the Act, there is no reason why collections should ever be allowed to fall more than 12 months into arrear. As a matter of fact, in many municipalities the accounts are four or five years in arrear, and whenever this is the case it affords the clearest evidence of executive inefficiency.

14. The statement in Appendix E shows the details of income under each head, division by division, as compared with that of the year 1888-89. The total receipts from the municipalities in the eight divisions show an increase under the following heads:—

Heads of Revenue.	Amount of increase.
Taxation—	Rs.
Conservancy cess	29,277
License on trades	7,231
Tax on persons according to their circumstances and property Tax on houses and lands	10,039
Tax on vehicles and animals	6,654
Tolls on roads and at ferries	3,424

On the other hand, there was a decrease under major head "Miscellaneous" of Rs. 13,000.

15. *Conservancy Cess.*—A portion of the increase under this head is only apparent, being due to the proper classification of the receipts, and a sum of Rs. 10,437 thus appears under this head against the Patna Municipality and Rs. 7,798 against the municipality of Pooree. The tax was levied for the first time in the municipalities of Bogra (Rs. 1,605), Kurseong (Rs. 870), and Cuttack (Rs. 1,032). There was an increase of income, as compared with 1888-89, of Rs. 2,901 in the Midnapore Municipality, Rs. 1,982 in Rungpore, Rs. 1,777 in Serampore, and Rs. 1,739 in Monghyr. No explanation has been given of the decrease in Howrah, which amounted to Rs. 11,832.

16. *License on trades.*—The figures under this head are also affected by new classification. The increase in the Howrah Municipality amounted to Rs. 1,111.

17. *Tax on persons according to their circumstances and property, and tax on houses and lands.*—These two items have to be reviewed together as the receipts were not accurately classified in the previous year. Deducting the income of Rs. 15,442 from the new municipalities noted in the margin, there was actually a falling off of Rs. 4,603 during the year, which was distributed among the Burdwan, Dacca, Chittagong, and Bhagulpore Divisions. There was a large increase of Rs. 3,408 in the Chota Nagpore Division, excluding the income from the new municipalities, with small increases in the Patna, Orissa, and Rajshahye Divisions. The increase of income was largest in Midnapore (Rs. 3,328), Patna (Rs. 3,032), Hooghly (Rs. 1,978), Gya (Rs. 1,739), Purulia (Rs. 1,262); and there was a falling off in Dacca (Rs. 4,738), Chittagong (Rs. 8,870), Howrah (Rs. 2,774), Bhagulpore (Rs. 2,590), Revilgunge (Rs. 1,974).

Name of Municipality.	Rs.
Dinapore Nizamut ...	9,562
Kharar ...	2,274
Lohardugga ...	1,897
Daltongunge ...	1,709
Total ...	15,442

18. *Tax on vehicles and animals.*—The main increase was in the Patna Division, where it amounted to Rs. 6,128, of which Rs. 3,618 occurred in the Gya Municipality. There was also a large increase of Rs. 4,122 in the municipality of Baranagore in the 24-Pergunnahs, and Rs. 3,211 in Howrah. Midnapore shows a falling off of Rs. 1,983.

19. *Tolls on roads and at ferries.*—No tolls are levied on any roads in any municipality in Bengal. The item therefore refers only to income from ferries. The increase occurred mainly in the Patna Division (Rs 6,980), Chittagong (Rs. 1,700), and Orissa (Rs. 1,121). The Burdwan and Dacca Divisions show a falling off of Rs. 2,982 and Rs. 3,404 respectively. The accounts of the Mozufferpore Municipality show an increase of Rs. 6,670, due to the Victoria Bridge having been damaged by the flood and rendered unfit for traffic. The Chittagong Municipality shows an increase of Rs. 1,468, Cuttack of Rs. 2,386, Balasore of Rs. 1,265, and Lalbagh of Rs. 905.

The decrease in the Burdwan Division occurred in all the municipalities except Utterpara, Baidyabati, and Burdwan, where there was an increase. It was most marked in Hooghly (Rs. 1,398) and Serampore (Rs. 1,245). The decrease, amounting to Rs. 3,150, in the Dacca Municipality is attributed to a change in the system of accounts under which the advance collections have been credited to "Deposits" instead of under "Tolls," and this explanation no doubt accounts for the decrease in other places.

20. The receipts from municipal fines show a falling off from Rs. 32,028 to Rs. 29,992.

21 Water-rates are levied only in Burdwan and Darjeeling. The collections in both places show a small increase, as noted in the margin. The rate at Burdwan was levied at 4½ per cent. as in the preceding year, but the Lieutenant-Governor is glad to observe that, with reference to the necessity of extending the supply of filtered water to all parts of the town, the Municipal Commissioners have raised the rate to 5 per cent. for the current year. The rate at Darjeeling is 2½ per cent. only, and the increase is due to the imposition of the rate for the first time at Goompahar. No water-rate is yet levied in Bhagulpore, but it is, as the Commissioner points out, absolutely necessary either to levy a special rate or to increase the ordinary rate on holdings, if the much-needed extension of the water-works is to be carried out. In Mymensingh and Dacca the munificence of Raja Surjya Kant Acharjya Bahadur and of Nawab Sir Abdul Ghunny, K C.S I., has rendered the imposition of a water-rate unnecessary.

	1888-89. Rs.	1889-90. Rs.
Burdwan	... 13,003	13,207
Darjeeling	...10,205	10,909
	23,208	24,116

22. The grants made to municipalities from Provincial or Local Funds during the year are detailed below :—

Name of municipality.	Amount of grant.	From what fund and for what purpose sanctioned.
	Rs.	
Burdwan ..	1,015	From Government as grant-in-aid to schools maintained by the municipality.
Bankoora ...	1,000	From the District Fund towards the cost of maintenance of the charitable dispensary and for medical aid to mofussil people.
Midnapore ...	6,965	From Government for maintenance of the College and Collegiate School.
	143	From Government for the Hindu Girls' School.
	485	From the Mohsin Fund for the part schooling-fee of Mahomedan boys of the Collegiate School.
	240	From the District Board towards the support of the Charitable Dispensary.
Tumlook ...	60	Ditto ditto.
Chandrakona ..	60	Ditto ditto.
Ramjibanpore ...	60	Ditto ditto.
Khirpai ...	120	Ditto ditto.
Khoolna ...	1,000	From Government for the maintenance of certain roads placed under the charge of the municipality.
Lalbagh ..	3,340	From Government on behalf of the Nizamut for the conservancy of the town.
Darjeeling ...	6,484	From Government for the maintenance of certain Government roads within the municipality.
	1,050	From the Darjeeling Improvement Fund for the repayment of the water-works loan and for the working of the Porters and Dandiwallas Act.

Name of municipality.	Amount of grant.	From what fund and for what purpose sanctioned.
	Rs.	
Rampore Beauleah	1,386	From the Prosunno Nath Roy Fund for the maintenance of the local charitable dispensary.
Nattore ...	1,400	Ditto ditto.
Serajgunge ...	250	From the District Fund for the repairs and extension of the dispensary building.
Burisal ...	800	From the District Fund for the maintenance of the dispensary.
Nasirabad ...	1,000	From Government for the support of the charitable dispensary and the school
Sherpore .	311	From Local Fund. (Purpose not stated.)
Kishoregunge ...	984	
Patna ...	22,725	From the Wahabee Fund to meet the preliminary expenses for a drainage and water-supply scheme.
Sasseram ...	1,200	From the Sasseram Endowment Fund for the support of the Sasseram Dispensary.
Bhagulpore ...	700	From the District Fund for the maintenance of the dispensary.
Deoghur ..	904	Rs. 300 from the Pilgrims' Lodging-house Fund for general improvement and street-lighting. Details of Rs. 600 have not been given.

23. The Lieutenant-Governor notices with satisfaction the following gifts of money or land, and works of public utility executed, by private individuals:—Rs. 3,000 out of Rs. 6,300 promised by Baboo Kali Krishna Tagore of Calcutta for metalling a road in the Baranagore Municipality was received by the municipality during the year. In Santipore a large tank was excavated, at a cost of Rs. 3,000, by Rai Ram Kissen Mukerjee Sahib, and another tank by Goondi Moyra, at a cost of Rs. 1,200, for the benefit of the inhabitants generally. The Nawab Bahadoor of Moorshedabad and his grandmother, Nawab Raisannessa Begum Shaheba, contributed Rs. 1,500 and Rs. 500 respectively towards protective works to save the people of the town from floods. In the South Barrackpore Municipality Baboo Behary Lal Pyne made a gift of Rs. 1,000 for the purpose of establishing a public burning-ghât at Sukchar. In the Soory Municipality Raja Ram Ranjan Chakravarty, Bahadoor, of Hetampore, made a donation of Rs. 1,000 towards the support of the indoor ward of the local charitable dispensary. A donation of Rs. 5,000 was made to the Rampore Beauleah Municipality by the Dighapattia Wards' Estate, in commemoration of the marriage of the two elder wards, to be expended on some work of public utility. It has been decided that the money should be spent on the construction of an underground masonry drainage channel for the most insanitary portion of the town. Another gift of Rs. 925 was made to this municipality by Baboo Girish Chandra Dutta, zemindar of Goalkandi, for the excavation of a tank. The Rungpore Municipality received from Raja Govind Lal Roy a gift of a plot of land for public burial purposes. In Furreedpore a sum of Rs. 1,391 was formally made over by the local Jubilee Committee and credited to the Municipal Fund for excavating a tank. Mir Ali Ahmed Chowdhury made a gift of Rs. 1,814 to the Burrisal Municipality for the construction of a cross road connecting the Katpatti road with the Police Line road and a pucca ghât on the east bank of the Police Line tank. Baboo Bishnu Perkash Narain Singh, of Madhubani in Chumparun, contributed a sum of Rs. 6,600 to the municipality for the construction of a serai, of a building for the municipal middle English and vernacular school, and of a municipal garden. In Bettiah, the Maharaja gave a plot of land for the site of a slaughter-house and a public latrine. At Chaibassa Colonel Samuells, the late Deputy Commissioner of Singbhoom, made a donation of Rs. 1,100 for clearing the lake near which the town stands and for repairing the bathing-ghât on it.

24. *Expenditure.*—The total municipal expenditure of the province was Rs. 26,77,511 during 1890-91, against Rs. 30,42,900 in the preceding year, and the year under report closed with a balance of Rs. 3,16,393, against Rs. 4,14,654 in 1888-89. The following comparative statement shows the percentage of the

municipal income spent in each division under each of the principal heads of expenditure during the last two years :—

Name of Division.	Income during the year.		General establishment.		Public safety.		Public health.		Public instruction.		Public convenience.	
	1888-89.	1889-90.	1888-89.	1889-90.	1888-89.	1889-90.	1888-89.	1889-90.	1888-89.	1889-90.	1888-89.	1889-90.
	Rs.	Rs.										
Burdwan	6,53,367	6,41,058	10·23	10·38	10·31	8·62	44·7	47·89	6·04	6·21	19·35	17·21
Presidency	9,43,036	5,12,323	10·18	12·08	12·46	7·98	37·58	37·07	2·77	4·15	26·03	24·75
Rajshahye	2,75,876	2,76,258	14·48	14·37	3·07	3·05	53·11	46·78	3·08	3·03	15·13	15·76
Dacca	2,88,837	3,34,230	10·91	8·67	3·73	3·22	54·45	55·72	3·34	2·69	22·12	17·39
Chittagong	71,850	67,712	9·64	10·01	3·49	3·43	40·85	47·53	17·32	9·78	19·3	19·66
Patna	4,43,470	4,82,101	12·84	12·2	5·49	4·9	48·25	46·3	3·71	3·6	20·18	23·3
Bhagulpore	2,18,468	1,83,515	8·7	12·76	1·51	2·1	42·37	79·42	2·48	3·32	20·12	23·37
Orissa	80,521	86,786	11·05	12·48	5·35	3·99	51·4	50·09	3·98	4·08	25·29	18·48
Chota Nagpore	53,847	63,519	13·8	14·3	1·67	1·3	50·16	56·5	3·15	2·9	15·79	13·6
Average ...	...	...	11·31	11·61	5·27	5·74	47·65	48·94	4·94	4·31	20·39	19·06

25. Here also the fact that the entire area of the late Suburban Municipality has not been excluded from the operation of Act III (B.C.) of 1884 prevents the institution of any accurate comparison between the accounts of 1889-90 and those of the previous year. The statement in Appendix F shows the details of expenditure under each head, division by division. The largest expenditure is incurred on conservancy (Rs. 4,69,867), public works including maintenance and repairs of streets (Rs. 4,57,191), general establishment (Rs. 3,07,495), medical institutions (Rs. 2,30,241), and road-cleaning establishment (Rs. 1,92,741). The chief differences in expenditure, as compared with that of the year 1888-89, in the eight divisions (excluding the Presidency Division) are the following :—

Increase.

Heads of Expenditure.	Amount of increase.
	Rs.
General establishment, including collection charges ...	6,124
Establishment and appliances for extinguishing fires ...	4,491
Street lighting	6,198
Buildings and other works	12,938
Maintenance of medical institutions	5,034
Water-works	49,984
Road watering	4,554
Conservancy and road-cleaning establishment	10,693
Other measures (establishments for markets, slaughter-houses, &c)	13,851
Survey of lands	10,707

Decrease.

	Amount of decrease.
	Rs.
Repairs (to markets, dispensaries, &c.)...	7,164
Drainage works	4,070
Public instruction	5,741
Public works (establishment, new works and repairs) ...	27,835

26. The table above shows that the Municipal Commissioners increased their expenditure on works of general utility. As regards the first item, General establishment, deducting Rs. 3,022 on account of the newly-established municipalities which came into operation during the year, there was on the whole a net increase of Rs. 3,102 in the eight divisions taken together. The percentage of charges under this head to the total income of the year in each division is shown in the margin. It is evident that no standard is followed by the different municipalities in fixing the scale or pay of their establishments, and although for obvious reasons one fixed scale cannot conveniently be employed in all parts of the province, it is incumbent on the Commissioners to try and restrict the expenditure on this item as much as

Name of Division.	Percentages.
Burdwan ...	10·4
Presidency ...	12·0
Rajshahye ...	14·3
Dacca ...	8·8
Chittagong ...	10·9
Patna ...	12·2
Bhagulpore ...	12·7
Orissa ...	12·4
Chota Nagpore ...	14·3

possible. The Lieutenant-Governor desires to take this opportunity to invite attention to the following remarks recorded on this subject by the Commissioner of the Burdwan Division:—

"The examination of the budgets of the municipalities in this Division for the current year brought to light a marked tendency on the part of Municipal Commissioners to give occasional increases of salary to members of the establishments, instead of laying down a fixed scale (with periodical increases, if necessary) and adhering to it. This practice is one which should, in my opinion, be consistently and firmly discouraged, as being unfair to the tax-payers and demoralizing to the recipients. The funds of all the municipalities are very limited in comparison with their wants, and any increase allowed to establishments must necessarily decrease, *pro tanto*, the surplus available for works of general utility. In most cases the proposed increase was disallowed, and the Municipal Commissioners were asked to consider what their requirements were as regards the strength and pay of their establishments, to lay down a scale once for all, and to adhere to it for the future. The spectacle of a municipal subordinate canvassing the Commissioners to vote for an increase to his pay (not fixed by any scale) is not one that is consistent with a proper discharge of his duties."

These observations of Mr. Toynbee are very pertinent, and should be put into practical application in the case of all municipalities.

27. *Street lighting.*—Fifty-nine municipalities, distributed in the divisions noted in the margin, incur no expenditure on this item. In the Rajshahye Division alone all the municipalities have made some attempt at lighting the streets, however inadequate the results may be. Year after year the Inspector-General of Police brings to the notice of Government the disadvantage at which the Town Police have to work owing to the streets in municipal towns being insufficiently lighted or not lighted at all, and there is no doubt that crime is greatly facilitated and much difficulty caused to efficient police supervision by this omission.

Name of Division.	Number of Municipalities in which there are no street lamps.
Burdwan	12
Presidency	21
Dacca	3
Chittagong	1
Patna	8
Bhagulpore	4
Orissa	2
Chota Nagpore	8
Total ...	59

28. *Maintenance of hospitals and dispensaries and vaccination.*—The statement in Appendix G shows the establishment employed and cost incurred by the municipalities on account of vaccination and the results of the vaccine operations. The total municipal expenditure on this item amounted to Rs. 16,847, against Rs. 18,047 of the previous year, out of which latter sum Rs. 3,064 represents the expenditure incurred by the late Suburban Municipality during 1888-89. The provisions of the Compulsory Vaccination Act, 1880, are in force in 130 municipalities, and the total number of persons vaccinated or revaccinated during the year amounted to 98,567, of whom 89,753 were successful cases.

One hundred and twenty municipalities maintained 127 dispensaries (including one temporary institution) during the year. The total cost incurred on account of "Medical institutions" was Rs. 2,30,241, against Rs. 2,29,810 of the previous year. The expenditure on this account increased in the Patna Division from Rs. 58,488 in 1888-89 to Rs. 62,433 during 1889-90, and in Chota Nagpore from Rs. 8,276 to Rs. 10,815. There were increases also in Rajshahye (Rs. 1,310) and Dacca. In Burdwan there was a falling off of Rs. 3,216, in the Presidency Division Rs. 4,603, and in Orissa Rs. 802. In the Sooree Municipality one-half of the cost of maintaining the dispensary was borne by the District Board of Beerbhoom, and hence the reduction of expenditure.

29. *Female Medical education.*—The Municipal Commissioners of Burdwan made a provision of Rs. 240 per annum for the education of one girl in the Campbell Medical School in Calcutta; but as no one availed herself of this offer, it was resolved to utilise the allotment in training a nurse at the Burdwan Charitable Dispensary. Their choice fell upon one Srimati Hemangini Chatterjea, who refused, however, to accept the appointment. They are now trying to secure another duly qualified and trained nurse. In the Pubna district two midwives were appointed, paid partly from the municipal and partly from the district funds. It is stated that, whilst other municipalities in the Division

were ready to incur expenditure on this account, no female students came forward for help, and consequently no help was given. In Burrisal the Municipal Commissioners employed a midwife for the female hospital. There is a female hospital attached to the Bankipore Dispensary, where a trained nurse is employed to look after female patients. Although stipends had been provided for by the municipalities in the Sarun district for female medical students attending the Temple Medical School, no candidates have yet come forward to attend the institution; but the Magistrate reports that the matter has his best attention, and that every endeavour will be made to make the scheme successful. The Lieutenant-Governor regrets that the results should be so discouraging They corroborate what has come to the notice of Government from other sources, that less interest is evinced in Bengal than in other provinces in India in the furtherance of female medical aid to women. Sir Steuart Bayley hopes, however, that both District Boards and Municipalities will persevere in their efforts to extend female medical enterprise in India.

30. *Water-works.*—The increase under this head occurred mainly in Dacca (Rs. 10,372) and Bhagulpore Rs (43,939). The Howrah Municipality reduced its expenditure from Rs. 2,471 to Rs. 413. In Dacca the increased expenditure was due to the extension of the water-works in that town, for which a loan of Rs. 1,25,000 has been sanctioned by Government.

31. *Drainage Works.*—The following municipalities show an increase or decrease of expenditure on this item as compared with the previous year:—

Municipality.	Increase.	Decrease.
	Rs	Rs.
Burdwan	4,255	
Serampore	2,735	...
Darjeeling	...	7,429
Dinagepore	...	7,911
Rampore Beauleah	...	2,271
Dacca	3,383	...
Naraingunge	1,060	...
Patna	...	3,144
Revilgunge	2,343	...
Lalbagh	2,110	...

The decrease in the Darjeeling Municipality is due to the approaching completion of the flagging of its drains, while in Dinagepore the falling off was on account of the large expenditure on drains in 1888-89 owing to the munificence of the Maharajah.

32. *Public instruction.*—The statement in Appendix J shows, division by division, the class and number of schools maintained or aided by municipalities, the number of pupils receiving instruction at them, and the expenditure incurred on them; and also the number and class of other schools within municipal limits. It has been compiled in some cases from figures furnished by Commissioners of Divisions, and in others, where this could not be done, or only incomplete information was furnished, from figures obtained from the Education Department. According to the separate report furnished by the Director of Public Instruction, the total expenditure from Municipal funds on education during the year was Rs 83,000, against an expenditure of Rs. 86,000 during 1888-89. The details are shown in the margin, and betray the fact, which was already well known to Government, that the Municipal grants are still devoted as a rule to the maintenance of English education, and that very little assistance is given to primary schools. The Lieutenant-Governor is glad to notice, however, that there is some improvement in this respect, and that Commissioners of Divisions have not been slow to check the tendency of Municipal Commissioners to aid English education at the cost of the rate payers generally, while only a few of the well-to-do class profit by the schools There are apparently serious difficulties in the way of making the figures furnished by municipalities to the Education Department correspond with those supplied by them to Government; but the matter has received attention, and it is to be hoped that in next year's reports the municipal and Departmental figures will be wholly reconciled.

	Rs.
Secondary ...	53,000
Primary ...	13,000
Female ...	9,000
Special ...	1,000
Buildings ...	4,000
Miscellaneous ...	3,000

33. *Vital statistics.*—Under this head the Lieutenant-Governor deems it advisable to reproduce the remarks he has already recorded in reviewing the report of the Sanitary Commissioner for 1889, as follows :—

"Births are now registered in 137 municipal towns with an aggregate census population of 2,422,994. The ratio of registered births is only 22·76 per thousand, the ratio of male births being 12·05, against female births 10·70. Dr. Gregg observes that the supposed standard of birth-rate in India is 40 per thousand, and it is probably even higher than this. There are indeed six municipalities in Bengal in which the statistics of birth exceed this ratio; but there are no less than 15 in which the statistics are so imperfectly recorded that the ratio is less than 10 per thousand. Among these is South Suburban Municipality, where the ratio is 7·47. In four municipalities—Muktagacha, Jhalokati, Goberdanga, and Nasirabad—the ratio is less than 5 per thousand. In a large and wealthy municipality like Patna the ratio is only 12·98, in Buxar it is 14·71, in Purneah it is 15·45, in Midnapore it is 15·73, in Jessore it is 16·71, in Dacca it is 17·71, in Cuttack it is 17·83, in Berhampore it is 18·89, and in Krishnaghur it is 19·68. When the registration in important municipalities, at the head-quarters of districts, is still so defective, it appears to be hopeless to attempt registration with any approximation to accuracy in rural areas. It is true that the registration for 1889 show a slight improvement over that of 1888, when the ratio of births was only 20·63 ; but the result is still very discouraging, and shows that municipalities as a body do not pay attention to this elementary and very necessary portion of their duties The Lieutenant-Governor has observed that during the current year, according to the statements published weekly in the Gazette, birth registration is still extremely deficient.

Births.

The same remarks are applicable to the registration of deaths in municipalities. The registered mortality in 1889 was 25·03 per thousand, against 24·86 per thousand in 1888. The statistics recorded vary very widely in different municipalities, as the following figures will show :—

Deaths.

	1889.	1888.	Mean of 1884-88.		1889.	1888.	Mean of 1884-88.
Pooree ...	71·4	32·9	50·8	Cuttack ...	20·0	16·2	17·6
Purulia ...	49·5	50 3	28·8	Furreedpore ...	19·0	8·8	21 3
Rungpore ...	47·2	33·6	33·7	Arrah ...	16 6	21·6	16·7
Serampore ...	46 0	40·6	38·6	Krishnaghur ...	16·3	14·8	23·5
Raneegunge ...	42·3	45·1	30·9	Patna ...	15·9	21·0	22·5
Gya ...	42·2	49 3	49·8	Chittagong ...	15·0	18·7	21·7
Jamalpore ...	38 5	38·7	39·0	Santipore ...	11·7	9·4	13·5
City Moorshedabad...	37·9	33·8	89·4	South Suburban ...	11 2	12·7	14·7
Utterpara ...	37·7	29·0	23 7	Ranaghat ...	10·9	6·6	11·4
Baranagore ...	36·8	30·6	24·4	Kishoregunge ...	10·9	8·4	17·5
Dinagepore ...	33·4	31·5	21·9	Baduria ...	8·6	10·5	11·9
Hooghly ...	31·8	27·5	39·1	Tangail ...	5·3	9·2	18·9

The small improvement effected in the registration as a whole during the past year may be attributed to the special circular issued by Government on the subject, and to the action taken by the Sanitary Commissioner in supplementing the instructions then promulgated ; but the registration in many municipalities is still deplorably defective. There can be no reason why, under proper administrative arrangements, the registration should not be as complete at Patna and Arrah as it is at Gya, for instance, or in Ranaghat and Santipore as it is in Serampore and Utterpara. The South Suburban town is again conspicuous for its imperfect registration. The two newly-created municipalities of Cossipore-Chitpore and Manicktollah, where in the former case, a mortality is registered of 38·9 per thousand, and in the latter only 14 5 per thousand, afford a marked illustration of good and bad work in adjoining localities. It is obvious that these figures supply very little scope for any observation on the comparative health of municipalities during the year."

34. Sir Steuart Bayley is well aware that attention is now being devoted to the registration of these statistics, and he is confident that every year will show further improvement. But the point is one of real importance on which it is necessary to lay special stress; for the efficiency of muincipal administration must always be judged in a large measure by the success which attends the accurate registration of births and deaths, which are the very basis of sanitary enterprise, and in all civilised countries are recorded with the greatest accuracy.

35. *Loans and Sanitation.*—The policy of Government in regard to loans was fully stated in last year's Resolution, and every encouragement is now offered to municipalities to apply for loans for the execution of well-considered schemes of improvement. The following applications have been sanctioned within or immediately after the close of the year :—

(*a*) *Dacca.*—The municipality applied for a loan of Rs. 1,25,000 for extending the water-works to some parts of the town which were not hitherto supplied with filtered water. Rs. 30,000 was advanced during the year, and the balance will be advanced during the current year.

(*b*) *Dinagepore.*—In March 1890 orders were issued sanctioning the grant of a loan of Rs. 10,000 to the Dinagepore Municipality for the completion of the drainage works in that town.

(*c*) *Rampore Beauleah.*—In April 1890 sanction was accorded to the grant of a loan of Rs. 15,000 applied for by the Rampore Beauleah Municipality for the construction of drainage works.

(*d*) *Bankoora.*—A loan of Rs. 5,000 was applied for and sanctioned to the Bankoora Municipality in June 1890 for improving the water-supply in that town by sinking six wells and acquiring and excavating a big tank in the centre of the town.

(*e*) *Pooree.*—The municipality applied for a loan of Rs. 25,000 for the improvement of the drainage of that town. But as the scheme submitted by the municipality was not approved by the Public Works Department of Government and has to be revised in that Department, the application for the loan has been held in abeyance.

(*f*) *Sooree.*—The Sooree Municipality obtained a loan of Rs. 1,000, repayable in four years without interest, from Raja Ram Ranjan Chakrabartty, Bahadoor, of Hetampore, for establishing a municipal market called the "Jubilee Market."

Proposals for loans to the Midnapore, Chupra, and Mozufferpore Municipalities for the improvement of the drainage of those towns have been under consideration, but as the schemes were not matured in any of these places, no final orders have been passed. The Serampore Municipality applied for a loan of Rs. 30,000 for improving drainage, and a notification was published in May 1890, as required by the rules, declaring the intention of the Lieutenant-Governor to sanction the application; but up to the present time no further action has been taken. The Commissioner of the Chota Nagpore Division reports that Rajah Nilmoni Singh Deo of Pachet offered a contribution of Rs. 5,000 towards the cost of improving the water-supply of the town of Purulia, and has since the close of the year paid up Rs. 1,000 as part of his donation. As, however, a larger provision of funds will be necessary for the works, the Municipal Commissioners contemplate borrowing a sum of Rs. 10,000 from Government. The scheme for the Howrah water-works is still under the consideration of Government and it is probable that for this undertaking a comparatively large loan amounting to not less than ten lakhs of rupees will be necessary.

36. Upon the whole, the Lieutenant-Governor is not disappointed with the manner in which municipalities have availed themselves of the more liberal policy inaugurated by Government, and he is quite sure that a very profitable use is being made of the loans already granted. But he would be glad to see the larger municipalities, especially those in Behar, more forward to appreciate the necessity of capital expenditure. He has no doubt that in a short time there will be greater willingness in this direction. It must not be forgotten that municipal administration in Bengal is still in its infancy, and that the Commissioners generally have had no opportunity of appreciating the enormous benefits which result from capital outlay on sanitary and other works. The total expenditure incurred on sanitation in municipalities in Bengal last year (excluding Calcutta) was only Rs. 12,81,031, and the total of loans which had been raised by these municipalities for purposes of sanitary improvement up to the close of the year was less than three lakhs of rupees. By way of comparison it may be mentioned that the single town of Liverpool expended on sanitary improvement during the year 1887-88 the sum of £1,102,004; that the outstanding loans of the Liverpool urban sanitary authority at the close of that year were £3,284,984; that the expenditure in that year of 271 municipal boroughs in England acting as urban sanitary authorities was £15,894,457, and that the amount of outstanding loans of extra metropolitan municipalities was £152,557,155. Of course it is out of question for Bengal Municipalities to expend anything approaching to these vast sums on sanitary improvement, but the figures are quoted as being calculated to impress the imagination with the contrast in municipal development between India and Europe; and although the beginnings in Bengal are very small, it may be hoped that they will rapidly increase, and

that improvements in one town will not fail to stimulate other municipalities to rival its success.

37. *Enforcement of section* 63 *of the Act.*—The provisions of the section empowering the Commissioner of the Division and the Magistrate of the district to suspend the execution of any resolution or order, or prohibit the doing of any act by the Commissioners of a municipality, when such resolution or order or act is in excess of the powers conferred by the law, or is likely to lead to serious breach of the peace, or to cause serious injury or annoyance to the public or to any class or body of persons, were enforced in three municipalities during the year, viz., Dacca, Colgong, and Arrah. The circumstances were unimportant in all cases, and need not be especially noticed.

38. *Miscellaneous.*—The tramway in the town of Patna was completed and was in working order during the year. The length of the tramway is nearly seven miles with 11 sidings to enable cars to cross each other. The total number of passengers carried up to 31st March last was 151,260. There was only one serious accident during the year.

There were serious outbreaks of fire in the municipalities of Nattore, Bogra, and Rungpore, attended with loss of property, but no lives were lost. Great damage was done to the roads by the high floods in Coomarkholly, Nuddea, and Santipore. In Moorshedabad there was an unusual flood during the year, and considerable portions of Lalbagh and Azimgunge were under water. The Nawab Bahadoor of Moorshedabad contributed about Rs. 3,000 for giving relief to the poor in Lalbagh, and Rai Dhunput Singh, Bahadoor, and Rai Bepin Chand and Rai Budh Singh Dudhuria, Bahadoor, subscribed Rs. 500 and 100 respectively for relief of the Azimgunge people who suffered from the flood. In the Manicktollah Municipality a fire occured, causing damage to the extent of about Rs. 40,000.

In April 1889 a tornado passed over some of the villages within and about the Tangail Municipality. Its duration was very short, and it extended over a distance of five miles. It is reported that 139 human lives were lost and 242 persos seriously wounded. The loss of property was estimated at Rs. 19,000. A sudden somewhat similar blast of wind also visited the town of Nalchitti on the night of the 27th October 1889. Its duration was a few minutes only, and it extended over an area of about a mile. Some damage to property was caused, but no lives are reported to have been lost.

39. *Working of the Porters and Dandiwallas Act, V (B.C.) of* 1883, *in Darjeeling.*—The Act did not work satisfactorily during the year, and the table of rates for the hire of porters and dandiwallas was revised. Seventeen prosecutions were instituted and 15 convictions obtained. Three hundred and forty-seven dandiwallas and 229 porters were registered and 494 badges were issued. The cost incurred in the working of the Act was Rs. 170.

40. *Working of the Pilgrims' Lodging-house Act IV (B.C.) of* 1871.—In Pooree the total receipts during the year, including the opening balance of Rs. 3,983-5-2, amounted to Rs. 12,443-14-11, and the expenditure to Rs. 11,255-11-4, against Rs. 18,176-11-4 and Rs. 14,193-6-2 respectively of the preceding year. Excluding the opening balance, the receipts show an increase of nearly Rs. 3,000 over the preceding year. The sum of Rs. 5,000 was paid to the municipality for the cost of conservancy and sanitary improvement of the town. The number of lodging-houses increased from 194, capable of accommodating 5,433 lodgers, to 417, capable of accommodating 11,170 lodgers. Sixty-two pucka drains and 363 pucka latrines were constructed within house premises, and in 408 houses the rooms were provided with suitable windows. The total amount of fines realised amounted to Rs. 911-2-6, against Rs. 1,074-9 in the previous year. Besides contributing largely to the pilgrim hospital in the town of Pooree, the Lodging-house Committee continued to maintain the Pipli and aid the Balianta dispensaries. Altogether the Act worked satisfactorily.

41. The total receipts of the Gya Lodging-house Fund amounted to Rs. 18,400-7-2 (including the balance of the previous year), and the total expenditure was Rs. 13,193-2-11, leaving a balance of Rs. 5,207-4-3. The number of new certificates issued under the Act was 12, against 27 in the preceding year. Four hundred and five licenses were issued, against 476 of 1888-89, and the number of lodgers was 11,659, against 13,485. Altogether 63 prosecutions

were instituted, all of which were disposed of, 57 cases ending in conviction and 6 in acquittal. The total amount of fines imposed was Rs. 211, against Rs. 240. A further sum of Rs. 4,181-4-10 was spent in completing the cholera hospital. The hospital was formally opened in September last for the treatment of sick pilgrims in the old town of Gya. Forty-five cases were treated, of which 27 were cholera cases. There was no epidemic in the lodging-houses. They were kept in good order, and measures were adopted to keep them clean. All the houses are reported to have been regularly inspected by the Health Officer during the pilgrim season. The working of the Act appears, on the whole, to have been satisfactory.

42. In Raneegunge the Act could not be brought into working order, and the town has eventually been withdrawn from its operation after the close of the year.

43. At Chandbally the income of the year, including the opening balance, was Rs. 921 and the expenditure Rs. 655. Two pucca urinals were constructed, a tank was improved, and a large pucca well was sunk at the cost of the Lodging-house Fund. A sufficient number of sweepers was employed to sweep the streets and keep the urinals and public latrines in good order. The Act is reported to be working satisfactorily, and the difficulty which used to be felt in inducing the lodging-house keepers to apply for licenses has passed away.

44. The working of the Lodging-house Act in the town of Garbetta was transferred during the year to the District Board of Midnapore, the special committee under the Act being abolished. The District Board has also been entrusted with the working of the Act at Dantoon, another town on the Jagannath road in the Midnapore district.

45. *General working of the Municipal Act, III (B.C.) of* 1884.—The Commissioner of the Burdwan Division observes:—

Burdwan Division.

"Great credit is due to Rai Nalinaksha Basu, Bahadoor, and to Baboos Eshan Chandra Mitter and Siv Narain Mukerjea, Chairmen of the Burdwan, Hooghly, and Utterpara Municipalities respectively, for their successful administration during the past year. Other Chairmen have also done good work, and so have many of the Vice-Chairmen and members of various municipalities, but their names are too numerous for detailed mention within the limits of this report. On the whole I consider that, in spite of many faults of omission and commission, the municipalities in this Division have worked successfully and have made good use of the funds at their disposal. They are more suited to consultative than to outdoor executive work, and are chiefly dependent for the latter on their Chairman, Vice-Chairman, and subordinates. If no great progress has been made in sanitary and other improvements, it has been due to the want of means rather than to the want of will. The weakest point in the administration of the various municipalities is, I consider, the want of effective outdoor supervision."

46. The Commissioner of the Presidency Division remarks:—"The Act, on the whole, worked well. Both the elected and nominated Commissioners continue generally to take interest in their duties, and the work has been carried on smoothly. I agree with Mr. Forbes in thinking that the party dissensions which so frequently interfered in certain municipalities with the unanimity of their proceedings during the first years of the new system seem to be gradually abating."

Presidency.

47. Speaking of the municipalities in Rajshahye, the Magistrate writes:—

Rajshahye.

"The Beauleah Corporation has discharged its duties very satisfactorily. The relation between me and the Corporation has always been cordial, the Commissioners always showing their willingness to consider the suggestions made by me, and proving themselves always amenable to reason and friendly advice. The Nattore Municipality has also worked very ably. But I would like to see more coherence in the members; they should lay aside all party spirit and work in harmony for the public good. It would be well also if they tried to enlist, not only the sympathies, but the active co-operation of the local zemindars and the people in the introduction of the very many sanitary improvements which the town is sadly in need of." The Magistrate of Rungpore writes:—"The Chairman and Vice-Chairman are both pleaders, busy men, and unable to give their attention to outdoor work. They do their best, and the town is greatly indebted to them for their public spirit. It is, however, much to be wished that, in case

of vacancy in either office, it may be filled by a non-professional resident, able to give more time and attention to inspection." The Deputy Commissioner of Julpigoree, who is also the Chairman of the local municipality, writes thus:—"The provisions of the Act have worked well and without friction throughout the year, though it was found necessary to sacrifice somewhat the interest of municipal funds with regard to the registration of carts owing to the peculiar relation the town bore to the surrounding district. Hundreds of carts passed through the municipality, but as they were shown not to ply habitually, they were exempted from paying registration fees. The Commissioners have evinced great interest in the welfare of the municipality, as evidenced by the interest and trouble they took in the registration of births and deaths. It would be invidious to point out any individual while all have shown such interest, but the names of Baboos Nilmony Pal, Kedarnath Mookerjee, and Moonshee Abdul Hamed require special mention."

The Commissioner of the Rajshahye Division writes:—"The Rampore Beauleah Commissioners showed a want of firmness in dealing with the opposition encountered in the attempt to revise the tax, but from what I have seen of the working of the municipalities as a whole, I have had reason to be very well satisfied with the manner in which the Commissioners have discharged their duties."

48. The Magistrate of Dacca has recorded the following opinion of the working of the Act in his district:—"I have no remarks to make except to regret that more has not been done to keep the principal roads in better repair. The bad condition of the Naraingunge road within municipal area has been repeatedly brought to the notice of the municipality for the last three years, but with no effect. The year has in many respects been one of fairly successful administration." The Magistrate of Backergunge writes as follows:—"In all the municipalities improvements have been effected and the Committees have worked smoothly. In Burisal in particular the members take an interest in their duties and work for the public good." The Magistrate of Mymensingh writes:—"I had not the opportunity of seeing the practical working of the municipalities during the year under review, but from what I have seen of them since I joined the district, and from a perusal of the papers, I am of opinion that the working was, on the whole, satisfactory. The Municipal Commissioners generally take a great deal of interest in their work and spend much of their time for the welfare of their towns. There are certainly some grave shortcomings which require to be repeatedly pointed out and pressed on their attention in order to be remedied. As will be seen from the statements in the appendix, many of the municipalities devote unduly large portions of their income to high education, which generally benefit a small and comparatively well-to-do minority; and the Municipal Commissioners often forget that they should spend most part of their income for the greatest good of the greatest number, and that in this alone lies the justification of municipal taxation. The drainage and sanitation of most of the municipalities require to be better looked after and improved. Many of the Municipal Commissioners have neither the leisure nor the inclination to look to practical details, and often there is not that close supervision over the work of clerks, overseers, and their underlings which is essential to efficiency."

Dacca.

The Commissioner of the Division observes:—"My own acquaintance with these municipalities dates from the current year only. I feel it would be unsafe to generalise on the subject, but I cannot refrain from noticing that the formation of small municipalities which contain merely the nucleus or germ of a town, surrounded by villages whose inhabitants, whatever be their means of livelihood, possess genuine agricultural instincts, was not foreseen, and is not altogether advantageous. Where such conditions prevail, something in the nature of a plebiscite to determine whether a township shall be formed or not is much to be recommended."

In Mr. Power's objection to the establishment of very petty municipalities and to the inclusion in them of agricultural villages the Lieutenant-Governor entirely concurs.

49. The Commissioner of the Chittagong Division writes:—"Generally I do not think progress is being made. Want of funds is the great difficulty which cannot be got over. There has been much good individual work, but there has also been

Chittagong.

great laxness, particularly in the accounts of the Chittagong Municipality. There has been, as usual in almost every town, one or more personal matters which seem to cause much more interest than more important public matters."

Patna.

50. The Commissioner of the Patna Division writes thus with reference to the municipalities in his Division:—"In the Gya Municipality the working of the Act III (B.C.) of 1884 was hardly satisfactory. The Commissioners took some interest in the matter which came before them for discussion, but only held eight meetings. The affairs of the Tikari Municipality form the subject of separate correspondence. The Commissioners of the Arrah Municipality evince an amount of energy which at times is injudicious and has to be checked. The troubles at Jugdispore have already been noticed. The working of the other municipalities in the district is reported to be satisfactory, but I fear they are not what they should be. The Magistrate of Sarun writes that the municipalities in his district have worked much as usual. Those of Revilgunge and Sewan are very poor and cannot do much, but according to their lights and up to the limited extent of their powers they worked well. The affairs of the Chupra Municipality were unsatisfactory till Mr. Bourdillon was elected Chairman, when, with the help of the Sub-Committees, something has been done to remedy the defects, and a fair measure of success has been achieved. The Commissioners of the Durbhunga and Madhubani Municipalities are said to take a fair amount of interest in their work; party feeling is, however, strong among them. In Roserah, which is beyond the pale of immediate official supervision, much time is lost in petty disputes over trifles, while no attention is paid to the interests of the rate-payers. In Chumparun the Municipal Commissioners are said to have as a body worked well, and both the Vice-Chairmen of the Motihari and Bettiah Municipalities take much interest in their work. The working of the Patna Municipality shows no improvement. In the last year's report Mr. Boxwell remarked that the features are 'inadequate conservancy and latrine arrangements, almost absolute absence of supervision, conservancy staff both inadequate and idle, watering and lighting insufficiently supervised, and the drainage of the whole municipality abominably bad.' No effective steps were taken during the year to remove these defects and shortcomings."

Bhagulpore.

51. The Commissioner of the Bhagulpore Division writes:—"As I only joined the Division at the close of the year, I cannot offer any general remarks based on personal knowledge of the working of the municipalities in this Division during its course; but I gather from what I have since observed, as well as from the several annual reports, that the administration of municipal affairs has been on the whole satisfactory, and that the general body of Commissioners have shown a fair amount of interest in the duties entrusted to them, though the real work has in most cases been performed by a few members only. Monghyr, under the superintendence of its non-official Chairman, appears to be a model municipality; and Bhagulpore, which has also at present an energetic non-official Chairman, has shown its enterprise in carrying out the water-supply scheme. No water-rate, however, has yet been levied, and in its absence the ordinary rate on holdings should certainly be raised, so as to cover the large additional expenditure which prevents full justice being done to the other requirements of the town."

Orissa.

52. The Commissioner of the Orissa Division writes:—"The Chairman of the Cuttack Municipality quotes the following passage from a letter from the Sanitary Commissioner for Bengal to show what improvement has been effected in the sanitation and conservancy of the town:—'I was, however, well pleased with the cleanliness of the town and with what I saw and heard as to the manner in which the Municipal Commissioners were performing the duties of their trust. They deserve credit for the good work they have done, and I hope that when I have an opportunity of visiting the town again I will find things in as satisfactory a condition as they were in February last.' The sanitary and conservancy arrangements in the town of Pooree have also improved. The Magistrate remarks:—'There has been substantial improvement and good work done in all these matters. The Municipal Commissioners have adopted many of the

Health Officer's suggestions and worked them out honestly. Except in some low parts in the outskirts, there are few Indian towns where there is less that is offensive to sight and smell than in Pooree, always, of course, excepting crowded pilgrim seasons.' The Balasore Municipality is under the management of Dr. Zorab, the Civil Surgeon, who is Chairman, and of Rajah Boikuntanath Dé, Bahadoor, both of whom take great interest in municipal matters. The Chairman acknowledges the valuable services rendered by the Vice-Chairman, and mentions the construction at his own cost of 225 feet road-side drain in a part of the town where it was very much wanted, and also the excavation of a tank in Soonhat. Dr. Zorab remarks:—'Daily some progress towards sanitation is being made in the municipality, which is, doubtless, the outcome of the great cordiality which exists among the Commissioners. Our means are small, and advance in consequence tardy, but there is no doubt such advancement is secured by their faith in the belief that union is strength.' No remarks were made by the Magistrate on the working of the Kendrapara and Jajpore Municipalities. The Chairman of the Jajpore Municipality remarks that all the Commissioners do not take an active interest in their work, but four or five of them, including the Vice-Chairman, rendered much valuable assistance. There has been some improvement in both these towns."

53. The Commissioner of the Chota Nagpore Division has recorded the following remarks:—"The Deputy Commissioner of Hazaribagh says that the Municipal Commissioners in his district generally took great interest in their duties and expended the funds available to the best advantage. The Deputy Commissioner of Lohardugga reports that the Act worked well in the Ranchi Municipality. The Municipal Commissioners here worked as a rule in complete harmony and union, and were guided by a commendable spirit of independence and intelligence. The presence in the Municipal Committee here of the Civil Surgeon, who looks after a great deal of the sanitary matters of the town, and of the District Engineer, who assists the municipality with his professional advice, has had a salutary effect. The efficiency of the Committee is also greatly due to the active interest taken by its Vice-Chairman, Babu Saroda Kumar Aikat, a member of the local bar. The Municipal Act worked fairly well in the town of Lohardugga, considering that it has been in actual operation there since the commencement of the past year. The Commissioners here, with one or two exceptions, took interest in the affairs of the municipality, but its usefulness is principally due to the exertion of its Chairman, the Revd. Mr. F. Hahn. In Daltongunge, the absence of a Chairman for the greater portion of the year, the want of experience among the Commissioners, and the apathy of the people generally, made the work of the year a trying one, but it is hoped that in time the municipality here will be a useful institution. In Manbhoom the Purulia Municipality was, on the whole, managed well. The Commissioners, with few exceptions, took interest in their duties and, besides the business at meetings, assisted in the execution of work of the different wards. In Jhalda things were not satisfactory. The former Chairman, the Tehsildar of the Jhaldah Ward's Estate, was dismissed for fraud from the service of the Court of Wards and was required to vacate his municipal appointment. When in December last the late Deputy Commissioner visited the town, he found considerable dissatisfaction prevalent at the proceedings of the Vice-Chairman and some other Commissioners. He took steps to set matters right. The Raghunathpur Municipality is settling down to its work. Its fund, however, is scanty, and it has not therefore been able to do much. The Chaibassa Municipality worked fairly well during the past year. Its Chairman, Dr. S. J. Manook, took great interest in its affairs."

Chota Nagpore.

54. The Lieutenant-Governor has reproduced these remarks at length, as he considers they afford the best general commentary on the administration of municipalities during the year. It will be seen that the opinion of local officers is upon the whole favourable, although it does not fail to notice defects and probe the weak points of the system. Sir Steuart Bayley in this Resolution also has not hesitated to indicate many important matters in regard to which there is urgent need of improvement. But he has also been at pains to make it clear that the past year has been characterised by much good work and honest devotion to public duty. In several municipalities credit is due to the Chairmen

and Vice-Chairmen for their energetic administration under very difficult conditions. The thanks of Government are emphatically accorded to these gentlemen, and also to the district officers and divisional Commissioners to whose kindly and sympathetic co-operation and guidance much of the success attained must justly be attributed. The Lieutenant-Governor desires also to acknowledge the general excellence of the reports received from Commissioners, and especially that submitted by Mr. Toynbee, the Officiating Commissioner of Burdwan.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

WORKS OF PUBLIC UTILITY CONSTRUCTED IN 1889.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Mis. Pub. Improvements.

No. 2979 *M.P.I., dated the* 25*th November* 1890.

READ—

Statement of works of public utility constructed by private individuals in the several districts of Bengal during the year 1889.

Read again—

Statement of similar works constructed during 1888, and the Resolution thereon.

REMARKS.—The following works of public utility were constructed by private individuals during 1889:—

	No. of works.	Cost. Rs.	A.	P.
Public buildings	9	45,082	0	0
Roads	8	21,610	0	0
Bridges	4	13,446	10	0
Embankments or bunds	42	21,833	0	6
Ghâts	5	4,950	0	0
Tanks	659	4,10,684	11	6
Wells	106	32,145	0	0
Miscellaneous	5	8,525	12	0
		5,58,277	2	0
Petty works	...	90,856	13	9
Total ...	838	6,49,133	15	9

The subjoined statement shows the number of works costing more than Rs. 200 each which were constructed during the past year, and the amounts contributed, including donations for petty works, as compared with the figures for the two previous years—

YEAR.	Number of works costing between Rs. 200 and Rs. 500 each.	Number of works costing more than Rs. 500 each.	Total number of works costing Rs. 200 and upwards each.	Total expenditure on works costing Rs. 200 and upwards each.	Add cost of petty works under Rs. 200.	Total contribution.
				Rs. A. P.	Rs. A. P.	Rs. A. P.
1887	312	88	400	2,05,668 2 3	50,863 1 0	2,56,530 3 3
1888	331	132	463	3,20,402 9 0	74,749 8 0	3,95,248 1 0
1889	484	354	838	5,58,277 2 0	90,856 13 9	6,49,133 15 9

The number of works costing Rs. 200 each and upwards, and the amounts contributed in each district for their construction, are given in the following table:—

District.	No. of works.	Total cost. Rs.	A.	P.
Burdwan	8	3,776	0	0
Bankoora	Nil	Nil		
Beerbhoom	3	1,100	0	0
Midnapore	26	17,232	0	0
Hooghly	5	18,064	15	0
Howrah	1	2,000	0	0
24-Pergunnahs	9	8,675	12	0
Khoolna	26	10,075	0	0
Nuddea	29	22,056	12	6
Jessore	6	2,540	0	0
Moorshedabad	3	2,900	0	0
Dinagepore	15	7,650	0	0
Rajshahye	38	25,750	0	0
Carried over ...	169	1,21,820	7	6

District.	No. of works.	Total cost. Rs.	A.	P.
Brought forward ...	169	1,21,820	7	6
Rungpore	9	3,318	0	0
Bogra	13	7,843	0	0
Pubna	16	18,700	0	0
Darjeeling	Nil	Nil		
Julpigoree	5	7,446	10	0
Dacca	3	3,456	0	0
Furreedpore	14	5,350	0	0
Backergunge	6	1,955	0	0
Mymensingh	40	19,060	0	0
Tipperah	16	6,150	0	0
Noakhally	2	800	0	0
Chittagong	2	440	0	0
Chittagong Hill Tracts	Nil	Nil		
Patna	1	200	0	0
Gya	11	3,089	0	6
Shahabad	8	3,000	0	0
Durbhunga	130	97,295	0	0
Mozufferpore	66	59,504	0	0
Sarun	22	11,500	0	0
Chumparun	31	11,680	0	0
Monghyr	41	10,225	0	0
Bhagulpore	168	1,04,714	0	0
Purneah	15	7,678	0	0
Maldah	3	1,900	0	0
Sonthal Pergunnahs	9	18,233	0	0
Cuttack	4	14,650	0	0
Balasore	20	10,770	0	0
Pooree	7	4,200	0	0
Hazaribagh	Nil	Nil		
Lohardugga	2	600	0	0
Manbhoom	2	700	0	0
Singbhoom	3	2,000	0	0
Total ...	838	5,58,277	2	0

The following works are specially noted:—

Public Buildings.—Babu Ram Chunder Gowku contributed Rs. 16,000 for an alms house at Deoghur, and contributions for similar works at Kaziwolichak and Chowliaganj, amounting to Rs. 10,000 and Rs. 8,000, were made respectively by Torul Mull Marwari and Lalla Chand Dilsukraj. A hospital was constructed in the town of Cuttack by Rajah Badyanath Pundit at a cost of Rs. 6,000, and Dr. Kalipodo Gupta, F.R.C.S., spent a further sum of Rs. 1,750 during the year in completing the charitable dispensary at Halishahar in the 24-Pergunnahs. The balance of the total amount of Rs. 45,082 contributed under this head is made up of three donations of Rs. 1,000 each and one below Rs. 500.

Roads.—The contributions, amounting to Rs. 21,610, under this head show a considerable increase when compared with the figures of 1888. Babu Nrisingha Nath Addy contributed Rs. 15,000 for a metalled road from Bandarhati to the Haripal railway station, and Rs. 4,020 were given by Rajah Baikunthanath De Bahadur for a metalled road from Balasore to Nulkool. His Highness the Maharajah of Cooch Behar contributed Rs. 1,050 for repairs to certain roads in the Julpigoree district.

Bridges.—The total contributions amounted to Rs. 13,446. Rajah Joti Prosad Gorga of Maisadal contributed Rs. 7,000 for a masonry bridge on the khal near Gewkhali, and His Highness the Maharajah of Cooch Behar spent Rs. 6,196 on bridges on the Patgram road.

Embankments or Bunds.—Of the sum of Rs. 21,833 contributed, Rs 16,793 were spent by the Durbhunga Raj on 30 bunds in the Bhagulpore district.

Ghâts.—Babu Shib Chundra Chattopadhyaya contributed Rs. 2,000 for a masonry ghât on the river Hooghly at Bellore, and Dr. Kalipodo Gupta, F.R.C.S., spent Rs. 1,000 in completing a masonry ghât at Halishahar in the 24-Pergunnahs. The total expenditure on ghâts amounted to Rs. 4,950.

Tanks.—The number of tanks constructed and re-excavated during the year was very large: the expenditure on these works amounted to Rs. 4,10,684.

The Maharajah of Durbhunga contributed Rs. 8,604 for four tanks in the Mozufferpore district, and Mussomut Rajbunsi Koer contributed Rs. 7,050 and Shaikh Sakhawat Rs. 4,000 for tanks in the same district. Babu Lachmi Narain Singh spent Rs. 5,500 on two tanks. Babus Jadab Chandra Saha and Krishna Behari Rai contributed Rs. 3,000 each; Babu Raghu Das Rs. 2,700; Babu Shib Charan Sahoo and others Rs. 2,538; Babu Kakra Mandal and others Rs. 2,357; Manorath Khawas Rs. 2,200; Babu Lalla Jha Rs. 2,100; Sheik Kanahri Rs. 2,050; Kumar Jogendra Nath Rai, Babu Gobinda Nath Saha Choudhury, Hari Kristo Poddar, Babu Gulab Missor, Tilak Mandar, Babu Ramlal Choudhri and Jahnabi Choudhurani Rs. 2,000 each; Hira Sahoo Rs. 1,951; Jhoomen Mandar and others Rs. 1,905; Jhanti Mandar and others Rs. 1,830; Somman Mandal and others Rs. 1,613; Aghari Mian, Sitai Munder and Ajarject and Totai Mandar Rs. 1,600 each; Jhoomuk Das and others Rs. 1,576; Shyam Mandar and Kasi Mahdar Rs. 1,574; Karman Mandal and others Rs. 1,525; Babus Krishna Chandra Chatterjee, Damodar Mandal, Adyait Chandra Pal, Fatoori Missir, Mussomath Lalit Kuar, Dana Thakur, Jairam Shah, Mushai Mahto, Mohunt Shia, Ram Das, Ramdin Das, Bishun Pergash Singh and the wife of Chulahi Teli Rs. 1,500 each; Nathroo Mander and others and Brojo Sundari Debya Rs. 1,400 each; Harihar Pathuk and others Rs. 1,305; Palat Sah, Dharam Chund Shah, Hari Nath Biswas and others and Goolab Mandar Koiri Rs. 1,300 each; Burmi Kamat and Bhorosi Mandal Rs. 1,242; Babus Jadu Nath Parial, Jorip Pramanick, Iswar Chandra Ghosh, Gauri Naik, Bhangi Jha, Gopal Jha, Butun Sahoo, Janordhan Singh, Lal Sahoo Teli, Birbhadra Sarangi and Srimati Sonamoni Kamarni Rs. 1,200 each; Purno Shaha, Jamir Karigar, Hira Nath Mandar and Colonel W. L. Samuells Rs. 1,100 each; and Prosad Missir Rs. 1,033.

Wells.—One hundred and six wells were constructed at a cost of Rs. 32,145. None of the contributions on this account were large.

Miscellaneous.—The sum of Rs. 8,525, contributed under this head, was spent chiefly on the excavation of water channels Srimati Kamini Sundari Dasi and Babu Harimohun Chackraverty spent Rs. 3,500 and Rs. 1,500 respectively on the construction of khals at Jogoti and Gogia in the Nuddea district, and Babu Taralukhya Nath Biswas and others Rs. 1,624 on the re-excavation of the Shreerakole khal in the 24-Pergunnahs.

RESOLUTION.—The Lieutenant-Governor notices with satisfaction that there has been a considerable increase during the year under review, both in the number of works of public utility constructed and the amount contributed for them, and His Honour desires that the thanks of the Government for their public spirit and liberality may be conveyed to those who have supplied the means wherewith the numerous works entered in the statement have been constructed.

Letters of acknowledgment will be forwarded by the Government to those who have constructed works costing over Rs. 500. The rest will receive the usual acknowledgment from the Commissioner or the Magistrate of the Division.

ORDER.—Ordered that a copy of this Resolution, and of the statement, be forwarded to the Board of Revenue, Lower Provinces, and to all Commissioners of Divisions; to the Commissioner of Chota Nagpore and to all Superintending Engineers of Public Works Circles in Bengal for information.

Ordered also that a copy of this Resolution, and of the statement, be forwarded to the Revenue and Judicial Departments of this Government for information.

Ordered also that this Resolution and the statement be published in the Supplement to the *Calcutta Gazette* for general information.

By order of the Lieutenant-Governor of Bengal,

E. J. MARTIN,

Joint-Secretary to the Government of Bengal.

Statement of works of public utility constructed by private individuals during the year 1889.

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
Burdwan	Burdwan	Munshi Zamin Ali Choudhary, of Kantalikuri, thana Ausgram.	Tank	Kantalikuri, thana Ausgram	500 0 0		
		Baboo Krishna Chandra Chatterjee, of Deasin, thana Katwa.	Two tanks	Deasin, thana Katwa	1,500 0 0		
		Baboo Abinash Chandra Bhattacharjee and others, of Majida, thana Purbasthali.	Re-excavation of a tank.	Majida, thana Purbasthali ...	376 0 0		
		Baboo Raj Chundra Samanta, of Palasdihi, thana Ranigunge.	Tank	Faridpore, thana Ranigunge...	500 0 0		
		Barkatunnessa Bibi, of Eklaki, thana Rayna.	Do.	Eklaki, thana Rayna	400 0 0		
		Brahmananda Kabiraj, of Khandaghosh, thana Khandaghosh.	Re-excavation of a tank.	Khandaghosh, thana Khandaghosh.	200 0 0		
		Munshi Saduruddin Ahmed Bahar, thana Satgachia.	Tank	Satgachia, thana Satgachia ...	800 0 0		
						3,776 0 0	
	Bankoorah	Nil	Nil	Nil	Nil		
	Beerbhoom	Debendra Prossono Sinha, of Raipur	Tank	Bolpur	500 0 0		
		Kristo Chundra Roy, of Bongram	Do.	Do.	400 0 0		
		Oma Charan Gosain	Do.	Bhollan	200 0 0		
						1,100 0 0	
	Midnapore	Bobu Mollick, of Kashonda ...	Tank	Kashonda, police station Chandrakona.	700 0 0		
		Romai Mal Gowala, of Mongrool ...	Re-excavation of a tank.	Mongrool, police station Chandrakona.	700 0 0		
		Radha Nath Bhooya, of Mooralichuck	Tank	Mooralichuck, police station Panskoorah.	700 0 0		
		Srish Chundra Ghose, of Alugram ...	Re-excavation of a tank.	Alugram, police station Panskurah.	500 0 0		
		Srish Chundra Ghosh, of Hariballavpur.	Tank	Hariballavpur, police station Sutahata.	250 0 0		
		Judistir Paramanik, of Barh Ghasipur.	Do.	Barh Ghasipur, outpost Balughata.	300 0 0		
		Tara Chand Paik, of Ramchak ...	Do.	Ramchak, outpost Balughata	500 0 0		
		Kamdeb Bera, of Kal Renyachak ...	Do.	Shitalpur, police station Moisadal.	350 0 0		
		Raja Joti Prosad Gorga, of Maisadal	Masonry bridge ...	On the khal near Gewkhali, outpost Gewkhali.	7,000 0 0		
		Moghori Das, of Daulbarh ...	Re-excavation of a tank.	Jugpur Nath Chak, outpost Bahiri.	800 0 0		
		Lakhi Narain Pahari, of Boro Rossulpore.	Do.	Boro Rossulpore, outpost Basdebpore.	300 0 0		
		Broja Sundari Debya, of Jinindapore	Do.	Jinindapore, outpost Basdebpore.	1,400 0 0		
		Muktaram Bar, of Baro Nalgeria ...	Do.	Boro Nalgeria, outpost Basdebpore.	300 0 0		
		Nanda Lal Dey, of Kishorepore ...	Do.	Kishorepore, police station Bhagabanpur.	300 0 0		
		Madhab Chundra Bera, of Ramchak...	Do.	By the side of the Trunk road, near Thakurnagore village, police station Bhagabanpore.	400 0 0		
		Dwarka Nath Das, of Koshba ...	Do.	Nobipore, police station Egrah.	200 0 0		
		Fakir Das Dhoba, of Balighai ...	Tank	Madhubpur Bazar, police station Egrah.	200 0 0		
		Ditto ditto. ...	Do.	Mohanagar, police station Egrah.	200 0 0		
		Chandra Mohun Guin, of Nimtola ...	Masonry landing ghát on the river Selye.	Nimtola, police station Daspore.	400 0 0		
		Akhoy Narain Mohapatra, zemindar, of Rajrah.	Tank	Satilapore, outpost Chaulkhola.	200 0 0		
		Srimoty Parboti Dassee, of Depal ...	Do.	Madhabpore, police station Ramnagore.	200 0 0		
		Chowdhurani Ananda Moyee Debya, Samsera.	Do.	Talda, police station Dantoon	532 0 0		
		Bhika Pal, of Gossain, Patna (deceased).	Do.	Srichundonpur, outpost Mohunpore.	200 0 0		
		Jhogri Maiti of Kosida ...	Do.	Bela Berunya, outpost Mohunpore.	200 0 0		
		Gokul Mondole, of Mohunpore ...	Do.	Nyagram, outpost Mohunpore.	200 0 0		
		Ananta Lal Pal, of Shiromoni ...	Do.	Shiromoni, police station Midnapur sudder.	300 0 0		
		Works costing less than Rs. 200 each	.....	.....	1,983 3 0	13,866 3 0	
	Hooghly	Ram Das Mosumdar	Tank	By the public road of village Hatti Kondai, thana Sailagurh.	964 15 0		
		Nrisingha Nath Addy	Metalled road, 5 miles	Metalled road from village Bandarhati to Haripal railway station, thana Dhaniakhally.	15,000 0 0		
		Nil Madhub Shom	Tank	Basudebpore, thana Horipal...	600 0 0		
		Madhab Chundra Giri	Charitable institution (Otithsala).	Tarkeswar, thana Horipal ...	1,000 0 0		
		Durga Das Ghosal	Tank	Kristo Bholanpore, thana Jehanabad.	800 0 0		
						18,064 15 0	
	Howrah	Baboo Kali Chundra Chattopadhyaya (deceased).	Masonry ghát ...	On the river Hooghly at Bellore.	2,000 0 0	2,000	
							37,941 1

VISION.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
	24-Pergunnahs	Babu Girish Chandra Bosu	Tank	Garulia	800 0 0		
		,, Hem Chundra Sen	Do.	Sodepore	600 0 0		
		,, Chandi Churn Chatterjee ...	Do.	Dasaria field	450 0 0		
		Dr. Kalipodo Gupta, F.R.C.S. ...	Masonry ghát on the river side.	Halishahar, Boonaghat ...	1,000 0 0*		
		Ditto	Charitable dispensary	Halishahar	1,750 0 0†		
		Babu Jadu Nath Parial	Tank	Jalabaria	1,200 0 0		
		Nasser Sheik	Do.	Joygachi	350 0 0		
		Raja Peary Mohun Mukerjee ...	Clearing off the Panighatta drainage channel.	Betwoen Panighatta and Nalua	901 4 0‡		
		Babus Peary Mohun Roy, Durga Dass Sirkar, Rajkumar Sirkar, Surendra Narayan Deb, and others					
		Babu Tralukhya Nath Biswas ...	Re-excavation of the Shreerakole khal.	Rajarhat to Sreechandy ...	1,624 7 6§		
		Dr. Radha Mohun Mundul					
		Maharaja Narendra Krishna Bahadoor and others...	.....	.....	200 0 0		
		Works costing less than Rs. 200 each...				8,875 12 0	
	Khoolna ...	Babu Umachurn Bundopadhya ...	Tank	Ghatbhog	200 0 0		
		,, Purna Chundra Chakraverty ...	Do.	Ditto	300 0 0		
		,, Chundra Kanta Poddar ...	Do.	Aiganti	700 0 0		
		,, Maha Bharat Dass	Do.	Moheswarpassa	400 0 0		
		,, Monjuddin Sheik	Do.	Dara	300 0 0		
		Babu Sastibur Bose	Do.	Alka	400 0 0		
		,, Anadi Nath Mitter	Do.	Dakhindihi	400 0 0		
		,, Joy Chandra Dass	Do.	Batnga	300 0 0		
		,, Chandra Gharami	Do.	Haldibunia	850 0 0		
		,, Godhadhar Bhattacherjee ...	Do.	Khaloini	500 0 0		
		,, Purna Chundra Banodopadhya	Do.	Borea	325 0 0		
		,, Mohim Chundra Sikdar	Do.	Kalikapore	350 0 0		
		,, Bishi Madhab Ghosh	Do.	Brojopatti	300 0 0		
		,, Khetra Mondal	Do.	Kuskheali	250 0 0		
		,, Hary Mohun Roy Choudhury ...	Do.	Basantapore	600 0 0		
		,, Kailash Sing	Do.	Peur	500 0 0		
		,, Kashik Pal	Do.	Gobindpore	200 0 0		
		Mojaddin Sirdar	Do.	Ditto	200 0 0		
		Babu Dokari Mondal	Do.	Naranpore	250 0 0		
		,, Fager Mallik	Do.	Askarpur, Motedanga ...	500 0 0		
		Barkatulla Sirdar	Do.	Kamta	600 0 0		
		Babu Tara Charan Mondal	Do.	Soaka	200 0 0		
		Moonshee Sirdar	Do.	Kushkhali	600 0 0		
		Babu Raj Chandra Moira	Do.	Azardari	200 0 0		
		Abdul Sirdar	Do.	Ramchandrapur	350 0 0		
		Bajal Rahaman	Do.	Satani	300 0 0		
		Works costing less than Rs. 200 each	.....	.....	250 0 0	10,325 0 0	
RESIDENCY		Babu Bistoo Prosad Boral	Masonry ghát ...	Navadvipa	1,000 0 0		
		,, Harish Chandra Chaudhury ...	Charitable dispensary	Ditto	332 0 0		
		,, Srimati Kamini Sundari Dasi ...	New khal	Jogoti	3,500 0 0		
		Babu Harimohun Chackraverty ...	Do.	Gogia	1,500 0 0		
		Noshaj Sheik	Do.	Majgram	1,000 0 0		
		Babu Anukchandra Acharjee and others.	Re-excavation of an old tank.	Old Sandoha	400 0 0		
		Abidulla Sheik	Tank	Maligram	500 0 0		
		Seraj Dofadar	Do.	Barbaria	1,000 0 0		
		Osman Biswas	Do.	Sormastafapur	425 0 0		
		Babu Mohendra Nath Ghose	Do.	Hinguava	315 0 0		
		,, Rasik Lall Madak	Do.	Chowgacha	622 0 0		
		,, Rasik Lall Pal and another ...	Do.	Ghoshpara	261 12 6		
		,, Paresh Nath Chaudhury ...	Do.	Kanchrapara	511 0 0		
		,, Nabadwipa Pal	Do.	Jote Darpanarayan	400 0 0		
		,, Rameshwar Saha	Well	Dharadaha	200 0 0		
	Nuddea ...	Baber Mandal	Tank	Baor	1,000 0 0		
		Babu Kartik Biswas	Do.	Solemari	1,000 0 0		
		,, Ananda Biswas	Do.	Baranaidaha	1,000 0 0		
		,, Joy Krishna Karani	Do.	Serrampur	500 0 0		
		,, Atal Biswas	Do.	Joyrampur	1,000 0 0		
		Maniruddin Ukil	Do.	Barachandghar	300 0 0		
		Bhijan Sheik	Do.	Ditto	500 0 0		
		Srimati Sonamoni Kamarni	Do.	Barnia	1,200 0 0		
		Oli Biswas	Do.	Abhoynagore	900 0 0		
		Izawar Biswas	Do.	Barnia	400 0 0		
		Nobin Malita	Do.	Kunjanagore	300 0 0		
		Hakim Biswas	Do.	Katdaha	400 0 0		
		Babu Khetra Nath Biswas	Do.	Ikuri	600 0 0		
		Panchu Mandal	Musjid	Mimapara	1,000 0 0		
		Works costing less than Rs. 200 each...	.....	.....	1,158 0 0	23,214 12 6	
	Jessore ...	Babu Kalidas Ghose	Tank	Majitpore	550 0 0		
		,, Chotoo Khan	Do.	Modhyakul	540 0 0		
		,, Ishwar Chundra Dutta	Road	Fatepur	200 0 0		
		,, Dasharath Mondul	Tank	Balabhadrapur	400 0 0		
		Kasi Gawharah	Do.	Umedpore	350 0 0		
		Babu Fatik Chundra Choudhury ...	Do.	Bolkora	500 0 0	2,540 0 0	
		Babu Garib Dass Mohanta and others	Re-excavation of a tank	Ranitola	550 0 0		
		,, Damodar Mondal	Tank	Faridpore	1,506 0 0		
	Moorshedabad	,, * * * *	Masonry ghát on the river side.	Khagra	550 0 0	2,900 0 0	47,855 8 6
		Bani Mondal, of Baidyabati, police station Patnitola.	Tank	Baidyabatty	700 0 0		
		Matam Mondal, of Poranagore, police station Patnitola.	Do.	Poranagore	900 0 0		
		Ram Durlabh Thakur, of Sooriboiltoil, police station Kotwali.	Do.	Sooriboiltoil	600 0 0		
		Jeabulla Fakir, of Borodighi, police station Chintamon.	Do.	Borodighi	550 0 0		
		Karimullah Mondal, of Borodighi, police station Chintamon.	Do.	Ditto	525 0 0		
RAJSHAHYE ...	Dinagepore ...	Shoriamullah Mondal, of Borodighi, police station Chintamon.	Do.	Ditto	525 0 0		
		Alimullah Dewan, of Amta, police station Chintamon.	Do.	Amta	700 0 0		
		Bangroo Ghosh, of Debipore, police station Thakurgaon.	Do.	Debipore	1,000 0 0		
		Mangta Khowa Sirkir, of Hossainpore, outpost Chirirbandar.	Do.	Hossainpore	200 0 0		
		Johar Mohamed Sirkir, of Bolta police station Chintamon.	Do.	Bolta	200 0 0		
				Carried over ...	5,900 0 0	.....	.....

* Rs. 2,250 were spent on this work in 1888.
† Rs. 3,750 ditto ditto.
‡ The total amount contributed for this work was Rs 1,075. The balance in hand will be utilised in course of the present year.
§ The total amount contributed for this work was Rs. 2,400. Rs. 775-8-6, which are still in hand, will be expended in the current year for completing the work

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
				Brought forward ...	5,900 0 0		
	Dinagepore—*contd.*	Tara Charan Sirdar, of Naipachagora, outpost Patiram.	Tank	Naipachagora	350 0 0		
		Sharaftullah Mondal, of Bodar, police station Patiram.	Do.	Bodar	400 0 0		
		Modhu Mondal, of Lakshmipore ...	Do.	Lakshmipore	400 0 0		
		Khamin Buksh Mondal, of Mirzapore, police station Porsha.	Do.	Mirzapore	200 0 0		
		Kalim Mirdha, of Nithpore, police station Porsha.	Do.	Nithpore	400 0 0		
		Works costing less than Rs. 200 each	.....	.....	325 0 0	7,975 0 0	
	Rajshahye ...	Akbar Mandal	Tank	Bamansikhur	450 0 0		
		Monai Mondal	Do.	Rosulpore	600 0 0		
		Uzeer Shaha	Do.	Ditto	600 0 0		
		Bhelu Mundal	Do.	Sodepore	1,000 0 0		
		Bhim Mondal	Do.	Bijni	900 0 0		
		Shamser Ali Mean	Do.	Nurullabad	500 0 0		
		Tajoo Mirdha	Do.	Alanpore	450 0 0		
		Rupa Pramanik	Do.	Ramnagor	700 0 0		
		Niamutulla Hasi	Do.	Shole	1,000 0 0		
		Purno Shaha	Do.	Bansbaria	1,100 0 0		
		Sharodi Baistobi	Do.	Tengramari	300 0 0		
		Badir Serdar	Do.	Kachna	800 0 0		
		Fakir Mondal	Do.	Durgapore	800 0 0		
		Shoriatullah Khundker	Do.	Paharpore	400 0 0		
		Baikunta Napit	Do.	Kat Khoir	300 0 0		
		Jamir Mullah	Do.	Bhutna	1,000 0 0		
		Satu Mundal	Do.	Chakla	400 0 0		
		Niamut Akund	Do.	Muktarpore	600 0 0		
		Rajab Shaha	Do.	Jushpore	700 0 0		
		Gopi Mohun Sirkar	Do.	Chapra	400 0 0		
		Brohmo Moye Dasya	Do.	Do	300 0 0		
		Rameswar Panchayet	Do.	Ayra	500 0 0		
		Misu Mundal	Do.	Sialoi	700 0 0		
		Gudur Mondal	Do.	Loblobi	600 0 0		
		Abir Mondal	Do.	Chimao	900 0 0		
		Misu Mondal	Do.	Punchanandar	600 0 0		
		Noji Mondal	Repairs to a tank ...	Jaggira	300 0 0		
		Umar Mondal	Tank	Durlubpore	800 0 0		
		Kothi Sirdar	Do.	Phulbari	500 0 0		
		Haroo Pramanik	Do.	Koipukhuria	400 0 0		
		Dighapattea Estate	Do.	Gurumosoli	1,000 0 0		
		Hara Mondal	Do.	Paikpara	800 0 0		
		Khial Sarkar	Do.	Ramchanderpore	700 0 0		
		Shamir Mondal	Do.	Ramsara Kajupore	600 0 0		
		Mohur Mondal	Do.	Kokari, Krishopore	500 0 0		
		Jorip Pramanick	Do.	Sankaripara	1,200 0 0		
		Molna Meer	Do.	Srinagardaha	200 0 0		
		Kumar Jogendra Nath Rai	Do.	Bolaripara	2,000 0 0		
						25,750 0 0	
Rajshahye —*contd.*		Indramani Dassi	Tank	Shibrampore, thana Sadullapore.	500 0 0		
		Arajulla Mondal	Do.	Harinmari, outpost Palashbaree.	300 0 0		
		Jair Gachoo	Do.	Nowda, outpost Palashbaree	250 0 0		
		Nahar Mondal	Do.	Dighalkandi, outpost Palashbaree.	350 0 0		
		Abdul Aziz	Do.	Gopalpore, outpost Palashbaree.	275 0 0		
	Rungpore ...	Bholanath Dass	Do.	Dewaner Khamar, outpost Phulkumar.	563 0 0		
		Pocha Saukari	Do.	Dholdanga, outpost Phulkumar.	600 0 0		
		Laksmi Narayan Dass	Do.	Shaneeyam, police station Kaligunge.	280 0 0		
		Tahoor Mohamed, Patwari	Masonry well	Nawabgunge bazar, police station Kotowali.	200 0 0		
		Works costing less than Rs. 200 each ...	.....	.....	150 0 0		
						3,468 0 0	
		Tazmamud Mondal	Tank	Maidanhata, thana Shibgunge	825 0 0		
		Manullah Akonda	Do.	Haludgai, thana Adamdighi	500 0 0		
		Jiarullaha Fakir	Do.	Paikar Dair, thana ditto	500 0 0		
		Jana Sirdar	Do.	Shaoli, ditto ditto	500 0 0		
		Mana Pramanick	Do.	Belta, ditto ditto	600 0 0		
		Gudura Sirdar	Do.	Purghurdighi, ditto ditto	1,000 0 0		
		Rafat Ullah Khondker	Do.	Dosra, ditto ditto	400 0 0		
	Bogra ...	Bhori Akonda	Do.	Balikora, ditto ditto	700 0 0		
		Patania Pramanick	Do.	Khalipore, ditto ditto	700 0 0		
		Kanchi Ram Sircar	Do.	Modhupore, ditto Nabab-gunge.	300 0 0		
		Gorib Khan	Do.	Panchulgram, thana Khetlal...	639 0 0		
		Badaruddin Khondker	Do.	Ditto ditto ...	626 0 0		
		Hashrat Ali Khondker	Do.	Ditto ditto ...	553 0 0		
		Works costing less than Rs. 200 each ...	.....	.....	350 0 0		
						8,193 0 0	
		Durga Prasanna Rai	Tank	Boro Deura, thana Dulai ...	300 0 0		
		Raja Jogendra Nath, Rai Bahadoor ...	Do.	Mosahagaree, thana Chatmohur.	1,000 0 0		
		Jamir Karigar	Do.	Haripore, thana Chatmohur ...	1,100 0 0		
		Jadab Chandra Saha	Do.	Shojnai, thana ditto ...	3,000 0 0		
		Jhogur Sirdar	Do.	Rangalia, thana ditto ...	400 0 0		
		Gobinda Nath Saha Choudhury ...	Do.	Mungalgram, thana Chatmohur.	2,000 0 0		
		Chand Pramanick	Do.	Betnani, thana Chatmohur ...	800 0 0		
	Pubna ...	Iswar Chandra Ghosh	Do.	Bagbaree, thana Ullapara ...	1,200 0 0		
		Kashi Nath Bordhun	Do.	Deghulgram, thana Ullapara	1,000 0 0		
		Rahim Chand Pramanik	Do.	Choraimoori, thana ditto	1,000 0 0		
		Shadhu Hasi	Do.	Shampore, thana ditto	1,000 0 0		
		Krishna Behari Rai, zemindar	Do.	Rajmanagram, thana ditto	3,000 0 0		
		Bodu Abdul	Do.	Laksmi Bishun Prosad, thana Raigunge.	700 0 0		
		Adam Hasi	Do.	Betna, thana Raigunge ...	800 0 0		
		Shorup Pramanick	Do.	Nimgacha, thana Raigunge ...	800 0 0		
		Nedu Akando	Do.	Dhesigram, thana Raigunge ...	700 0 0		
						18,700 0 0	
				Carried over ...	.....	64,086 0 0	

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
				Brought forward	Rs. A. P.	Rs. A. P. 64,086 0 0	Rs. A. P.
RAJSHAHYE —*concld.*	Darjeeling ...	Nil	Nil.	Nil.	Nil.		
	Julpigoree ...	His Highness the Maharajah of Cooch Behar.	Wooden bridges ...	Patgram, on the road from Patgram to Morangahat.	4,073 0 0		
		Ditto ditto ...	Repairs to Dhurla bridges.	Patgram	2,123 10 0		
		Ditto ditto ...	Repairs to Patgram to Morangahat road.	Ditto	250 0 0		
		Ditto ditto ...	Well	Rajnagar in Boda	200 0 0		
		Ditto ditto ...	Repairs to the emigration roads.	.....	800 0 0		
		Works costing less than Rs. 200 each	.....	.....	377 0 0	7,823 10 0	71,909 10 0
	Dacca ...	Hari Kristo Poddar	Tank	Kolakopa Bazar	2,000 0 0		
		Babu Lolit Chandra Sen...	Do.	Surgunj	600 0 0		
		,, Kali Nath Bose	Do.	Srinagar	856 0 0	3,456 0 0	
	Furreedpore ...	Babu Durga Charan Ghose	Tank	Nursingdia	400 0 0		
		Umed Ali Mesh	Do.	Basrail	300 0 0		
		Guru Charan Biswas	Do.	Urakandi	500 0 0		
		Jan Khan	Do.	Hazrapore	300 0 0		
		Faijaddi Munshi	Do.	Madaripore	250 0 0		
		Sebok Joydar	Do.	Shouldhur	250 0 0		
		Raj Kumar Mazumdar	Do.	Chowrasi Bazitpore	350 0 0		
		Nedu Majumdar	Do.	Bramhandi	200 0 0		
		Chowkri Mridha	Do.	Durbardy	600 0 0		
		Pathan Ulish	Do.	Nandy Masarkandi	300 0 0		
		Mohim Chandra Das	Do.	Pachu Dakhinkandi	400 0 0		
		Rajaram Pal	Do.	Khamardangi	1,000 0 0		
		Prasanna Kumar Chakravarti	Do.	Rajpur	800 0 0		
		Kalai Dhali	Do.	Halsipath	200 0 0		
		Works costing less than Rs. 200 each	.....	.....	1,087 0 0	6,437 0 0	
DACCA ...	Backergunge ...	Paran Talugdar	Tank	Rapta, station Bhola	300 0 0		
		Tafiladdy	Do.	Medua	630 0 0		
		Abdul Rohim Munshi	Do.	Manika, station Berhameddy	275 0 0		
		Nasaraddy Baklai	Do.	Kuli Kinker Barhameddy ..	200 0 0		
		Hara Sundari Choudhurani	Do.	Ranigunge hát, Berhameddy	250 0 0		
		Nyamalullah Akond	Do.	Darail Berhameddy	300 0 0	1,955 0 0	
	Mymensingh...	Az Shaikh	Tank	Khagdahur, station Kotwali ...	300 0		
		Dagu Napit	Do.	Ditto ditto ...	500 0 0		
		Ram Kristo De	Do.	Dhitpore-Durgapore	425 0 0		
		Mahamed Jan Sarkar	Do.	Dapunia-Kotwali	450 0 0		
		Tamiz Sheikh	Do.	Ditto	500 0 0		
		Gazi Mahmad Shaikh	Do.	Daribhabokhali-Kotwali ...	350 0 0		
		Khadoo Shaikh	Do.	Rampore-Durgapore	400 0 0		
		Asmal Sarkar	Do.	Selimpore-Kotwali	350 0 0		
		Bichara Mandal	Do.	Ditto	400 0 0		
		Loke Nath Nandi	Do.	Sehoround-Durgapore	400 0 0		
		Budha Mandal	Do.	Bota-Durgapore	400 0 0		
		Chandi Sarkar	Do.	Paranaunge-Kotwali	500 0 0		
		Ahmudjan	Do.	Bhobokhali-Kotwali	400 0 0		
		Raja Shaikh	Do.	Mehergaon, station Phulbaria	250 0 0		
		Rahman Shaikh	Do.	Shurerpar, ditto ...	500 0 0		
		Bindu Chang	Do.	Chakradhakanal, ditto ...	700 0 0		
		Jafar Sarkar	Do.	Andhariapara, ditto ...	300 0 0		
		Moun Mandal	Do.	Ditto, ditto ...	500 0 0		
		Idu Sarkar	Do.	Radhakanai, ditto ...	300 0 0		
		Nedani Manjhi	Do.	Ditto, ditto ...	300 0 0		
		Idu Shaikh	Do.	Chowdar, ditto ...	310 0 0		
		Nagor Mandal	Do.	Natuapara, ditto ...	375 0 0		
		Ali Fakir	Do.	Panjona, ditto ...	400 0 0		
		Keramat Akan	Do.	Amrabari, ditto ...	400 0 0		
		Adi Mandal	Do	Parpara, station Phulbaria ...	700 0 0		
		Fatu Kalu	Do.	Kushmail, ditto ...	350 0 0		
		Brindaban Bairagi	Do.	Nowgong, ditto ...	300 0 0		
		Ram Kumar Mandal	Do.	Motbari, ditto ...	350 0 0		
		Khalu Hazi	Do.	Anantpur, ditto ...	350 0 0		
		Nanu Shaikh	Do.	Ditto, ditto ...	400 0 0		
		Bishu Gopini	Do.	Ramgopalpore, station Isurgunge.	500 0 0		
		Grish Chandra Mazumdar	Do.	Magtula, ditto ...	400 0 0		
		Sachani Chakravarti	Do.	Tarati, ditto ...	300 0 0		
		Ashak Shaikh	Do.	Hosainpur, ditto ...	400 0 0		
		Jahanabi Chowdhurani	Do.	Santosh-Tangail	2,000 0 0		
		Adyait Chandra Pal	Do.	Dhalain Tangail	1,500 0 0		
		Titu Sarkar	Do.	Charabhang-Gopalpore ...	400 0 0		
		Kangal Chandra Chakravarti	Do.	Kamdebbari-Gopalpore ...	300 0 0		
		Mervo Sarkar	Road	Jashara to Shibgunge, station Gafargaon.	700 0 0		
		Jadab Lal Shah	Do.	Duajani to Golabari, station Tangail.	400 0 0		
		Works costing less than Rs. 200 each	.....	.....	530 0 0	19,580 0 0	31,428 0 0
CHITTAGONG...	Tipperah ...	Kunja Behari Wasti	Tank with masonry ghat.	Comillah town	600 0 0		
		Lochan Das	Do.	Kutorapura	300 0 0		
				Carried over ...	900 0 0		

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
				Brought forward ...	900 0 0	.....	.....
CHITTAGONG —*concld.*	Tipperah ...	Ram Nath Das	Tank	Dekori Khola	400 0 0		
		Goluk Chandra Chuckerbutty ...	Do.	Chanda Sagardi	200 0 0		
		Sharuf Shaha	Do.	Jagatpur	350 0 0		
		Bodan Shaha	Do.	Meraish	700 0 0		
		Mohommed Hossen	Do.	Alinagor	400 0 0		
		Kadir	Do.	Gobindopur	500 0 0		
		Hassanaddi Faquir	Do.	Kandia	200 0 0		
		Abdul	Do.	Dari Shoshania	300 0 0		
		Rohimoddi	Do.	Aliargunge	300 0 0		
		Shamboo Shaha ... ... m ...	Do.	Ramkrishnapur	450 0 0		
		Dongu Haji	Do.	Ditto	400 0 0		
		Keshab Changa	Do.	Alukpur	500 0 0		
		Shek Mansi	Do.	Khandura	250 0 0		
		Nasifa Bhanu, zemindar	Re-excavation of a tank	Chaiprairtola	300 0 0		
		Works costing less than Rs. 200 each ..		.....	450 0 0	6,600 0 0	
	Noakhally ...	Ram Kumar Das, mahajan	Re-excavation of a tank	Near the Munsif's court at Sundeep.	600 0 0		
		Asruf Ali	Tank	Pachim Chagalnya	200 0 0		
	Chittagong ...	Moorari Dey	Tank	Karoyanugore-Satkaneah ...	800 0 0	800 0 0	
		Ram Sunder Mistri	Road	Bajanlangram-Satkaneah ...	240 0 0		
		Works costing less than Rs. 200 each...	.....	.....	190 0 0		
	Chittagong Hill Tracts.	Nil	Nil	Nil	Nil	630 0 0	8,030 0
	Patna ...	Babu Baija Nath Singh	Well	Mohomedpore	200 0 0		
		Works costing less than Rs. 200 each...	.....	.....	125 0 0	325 0 0	
	Gya	Bulaki Lall	Well	Beldari	200 0 0		
		Gulab Chund Sahu	Do.	Nevira Bigha	225 0 0		
		Mir Basharat Hossain	Do.	Parva	250 0 0		
		Ram Nath Pundit	Do.	Saraee Tour	200 0 0		
		J. Alexander, Esq.	Do.	Imamgunj	400 0 0		
		Mussomath Anpurna Kuwar	Do.	Gurhatti	200 0 0		
		Paryar Koeri	Do.	Piruni	200 0 0		
		E. Solano, Esq.	Embankment	Purreary	493 5 6		
		Ditto	Do.	Kellourah	385 12 6		
		Ditto	Do.	Summinpore Budir	250 0 0		
		Ditto	Do.	Banipore	284 14 6		
		Works costing less than Rs. 200 each...	.....	.....	5,628 7 9	8,717 8 3	
	Shahabad ...	Sitaram Sing	Tank	Bagaind	1,000 0 0		
		Nakchedi Ram	Masonry well	Roghunathpore	500 0 0		
		Hissessur Bhugat	Do.	Dhunsni	400 0 0		
		Jadu Nondon Singh	Do.	Igri	300 0 0		
		Adit Prasad Singh	Do.	Nagri	200 0 0		
		Sew Sarun Lall	Do.	Murar	200 0 0		
		Maharajah of Doomraon	Do.	Diakalan	200 0 0		
		Padaruth Ram	Do.	Berhampore	200 0 0		
		Works costing less than Rs. 200 each	.....	.....	2,735 0 0	5,735 0 0	
PATNA ...	Durbhunga ...	Gopal Teli	Tank	Rarhi	500 0 0		
		Naina Jha	Do.	Bahu Salempore...	400 0 0		
		Ganesh Dat Singh	Do.	Naina Ghat	300 0 0		
		Tulshi Mander	Do.	Dhanusin	975 0 0		
		Hira Jha	Do.	Ganar	900 0 0		
		Bhikhari Dass	Do.	Do.	700 0 0		
		Bahu Lal Kuar	Do.	Kanbi	400 0 0		
		Lalgit Singh	Do.	Narma	500 0 0		
		Shanki Sahoo	Do.	Pali	700 0 0		
		Bachan Rai	Do.	Bindha	500 0 0		
		Barhami Lal Jha	Do.	Rsota	700 0 0		
		Chulhai Choudhri	Do.	Pataili	700 0 0		
		Jaijai Ram	Well	Narghaghi...	375 0 0		
		Mahanth Ram	Tank	Do.	800 0 0		
		Lachman Koiri	Well	Malinagar	250 0 0		
		Lahiar Mian	Tank	Sunderpur	500 0 0		
		Fakir Kurmi	Do.	Pariharpur	800 0 0		
		Kesho Thakur	Do.	Mahsinar	500 0 0		
		Nachu Bahu	Do.	Bishunpur	600 0 0		
		Sant Hania	Do.	Sarson	600 0 0		
		Ramlal Choudhri	Do.	Bhanara	2,000 0 0		
		Manorath Khawas	Do.	Raghopur	2,200 0 0		
		Gulab Missir	Do.	Harnagar	2,000 0 0		
		Shaikh Ameeruddin	Do.	Samsol	600 0 0		
		Madho Thakur	Do.	Maluahi	1,000 0 0		
		Jadoo Jha	Do.	Pathara	300 0 0		
		Gobind Sahoo	Do.	Bhaur	400 0 0		
		Joogal Kishwar Bahu	Do.	Behnagar	500 0 0		
		Ramdhan Gawala...	Do.	Andra	800 0 0		
		Abdul Gafur	Do.	Shindwa	800 0 0		
		Khedoo Jutt	Do.	Kakarwa	400 0 0		
		Pearey Jha	Do.	Balam	375 0 0		
		Rangi Raut	Bund	Kamalpur	400 0 0		
		Jaipadutt Jha	Tank	Katais	1,600 0 0		
		Faroo Sundi	Do.	Kachra	1,800 0 0		
		Bodhan Sahoo	Do.	Bankata	1,000 0 0		
		Lakhia Telin	Do.	Bajraha	1,000 0 0		
		Fatoori Missir	Do.	Kerwara	1,500 0 0		
		Faturi Mian	Do.	Sonbsa	1,000 0 0		
		Aghari Mian	Do.	Do.	1,600 0 0		
		Mangal Missir	Do.	Parjuar	1,600 0 0		
		Maharaja of Durbhunga	Do.	Pal	1,000 0 0		
		Ditto ditto	Do.	Benipatti	1,000 0 0		
		Shib Charan Chaudhri	Do.	Ditto	1,000 0 0		
		Gonder Jha	Do.	Loharania	250 0 0		
		Gudar Thakur	Do.	Harsuar	400 0 0		
		Ram Charun Choudhri	Do.	Khirha	700 0 0		
		Dulah Kahari	Do.	Rahman	500 0 0		
		Bachoo Sahoo	Do.	Salempur	500 0 0		
		Hajumani Sahoo	Do.	Ditto	500 0 0		
		Sheo Charan Dass	Do.	Ditto	500 0 0		
		Mahanth Lalit Dass	Do.	Madhnapur	500 0 0		
		Mumeshath Lalit Kuar	Do.	Sishanpur	1,000 0 0		
		Lachai Sah	Do.	Baswaria	300 0 0		
		Aghori Khawas	Do.	Sonpatti	600 0 0		
		Sirkha Gope	Do.	Kalikapur	200 0 0		
		Sham Raut	Do.	Darwara	300 0 0		
				Carried over ...	48,425 0 0	14,777 8 3	

VISION.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of district.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
				Brought forward ...	43,425 0 0	14,777 8 3	... ...
		Tulshi Raut	Tank	Darwara	800 0 0		
		Mani Lal Sondi	Do.	Matchaura	500 0 0		
		Rangu Raut	Do.	Ditto	600 0 0		
		Masihan Mian	Do.	Kahuahi	300 0 0		
		Nanoo Sahu Teli	Do.	Marhadi	500 0 0		
		Ram Raut	Do.	Barhi	250 0 0		
		Ramdhani Kalwar	Well	Gobrahi	200 0 0		
		Dana Thakur	Tank	Marnahia	1,500 0 0		
		Udan Dass	Well	Sidhap Kalla	400 0 0		
		Jhaloo Kamar	Tank	Pathal Gachi	600 0 0		
		Luderman Jha	Do.	Mahtha	1,000 0 0		
		Mehi Dass	Do.	Ditto	400 0 0		
		Gauri Naik	Do.	Gajabra	1,200 0 0		
		Mangal Sah	Bund	Tolo Uchal	1,000 0 0		
		Banwari Jha	Tank	Barnar	1,000 0 0		
		Manoruth Munder	Do.	Amjiri	1,000 0 0		
		Bhagwan	Do.	Ajmiri	1,000 0 0		
		Pachi Munder	Do.	Kakerdhobh	800 0 0		
		Chhidi Sahoo	Do.	Sandiahi	900 0 0		
		Kala Raut	Do.	Bhuptiahi	1,000 0 0		
		Fekun Raut	Do.	Ditto	400 0 0		
		Mohar Raut	Do.	Phulparas	500 0 0		
		Isri Thakur	Do.	Ditto	600 0 0		
		Unrao Gawalla	Do.	Mourni	600 0 0		
		Firangi Munder	Do.	Godhiari	700 0 0		
		Jhaman Mian	Do.	Harnari	500 0 0		
		Sitai Munder	Do.	Dhanaraja	1,600 0 0		
		Kashi Munder	Do.	Inderwa	900 0 0		
		Hitoo naut	Do.	Pasnari	700 0 0		
		Gopal Kumhar	Do.	Nama Jakhar	700 0 0		
		Sujan Kewat	Do.	Saharwa	700 0 0		
		Hurlal Kewat	Do.	Ditto	700 0 0		
		Sarman Khatwe	Do.	Ditto	600 0 0		
		Shaikh Jhaloo	Do.	Saraati	600 0 0		
	Durbhunga ...	Khedan Passi	Do.	Dhap Ghat	500 0 0		
		Mohipat Singh	Do.	Matrus	500 0 0		
		Mussomath Kampatti	Do.	Sagi	500 0 0		
		Kani Dhanuk	Do.	Feroz Gai	1,000 0 0		
		Muni Kumhar	Do.	Sajauha	1,000 0 0		
		Kant Dass	Well	Mahulia	600 0 0		
		Girhiman Patak	Tank	Tardiha	1,000 0 0		
		Patan Gope	Do.	Mahulia	600 0 0		
		Moosan Mander	Do.	Sathkharia	300 0 0		
		Bharusi Munder	Do.	Kachooi	400 0 0		
		Nanoo Bhirwar	Well	Suyapatti	800 0 0		
		Ramdeyal Bhirwar	Do.	Ditto	800 0 0		
		Hit Lall Munder	Do.	Ditto	720 0 0		
		Musher Munder	Do.	Jalapaker	700 0 0		
		Jhumak Gowala	Tank	Manha	600 0 0		
		Kailu Sahoo	Do.	Chikna	600 0 0		
		Bhangi Jha	Do.	Ditto	1,200 0 0		
		Gopal Jha	Do.	Jhitki	1,200 0 0		
		Butun Sahoo	Do.	Moosahry	1,200 0 0		
		Mehi Lal	Do.	Mahduma	900 0 0		
		Hiraman Gowala	Do.	Bagima	700 0 0		
		Nather Singh	Well	Aurha	600 0 0		
		Palat Sah	Tank	Dhanchia	1,300 0 0		
		Bala Sahoo	Do.	Khatunna	1,000 0 0		
		Ghughan Dhunuk...	Do.	Khasholpatti	1,000 0 0		
		Jhoonak Raut	Do.	Sarah Sima	1,000 0 0		
		Girdhari Belur	Do.	Kahi Pathr	700 0 0		
		Haluman Raut	Do.	Mudhpur	700 0 0		
		Gokhul Kurmi	Do.	Maluman Nayar	700 0 0		
		Bhagi Marer	Well	Bhagwanpur	200 0 0		
PATNA—*contd.*		Bahoo Lal Teli	Do.	Atri	300 0 0		
		Kanhai Sah	Do.	Somharsa	1,000 0 0		
		Ganga Gawala	Do.	Balua	700 0 0		
		Kashi Gawala	Do.	Mansupur	500 0 0		
		Mehi Gawala	Do.	Harraha	700 0 0		
		Rung Lall Gawala	Do.	Dudhaila	700 0 0		
		Bhukhan Merer	Tank	Rohua	700 0 0		
		Puncha Dusadh	Do.	Chicharma	700 0 0		
		Shihu Koiri	Do.	Pachi	800 0 0		
		Works costing less than Rs. 200 each...	.....	.....	11,309 12 0	1,08,604 12 0	
		Dharam Chund Shah	Tank	Majhowlia	1,300 0 0		
		Kallar Ajha	Do.	Badawl	800 0 0		
		Indur Rai	Do.	Foolwaria	200 0 0		
		Sib Mahto Koeri	Do.	Sewri Riuna	200 0 0		
		Bunai Koeri	Do.	Bathnaha	500 0 0		
		Ramnath Koeri	Do.	Kaih	800 0 0		
		Shaikh Kalah Hussain	Do.	Berha	600 0 0		
		Jairam Shah	Do.	Talhatha	1,500 0 0		
		Tiluk Kahto	Do.	Bath	500 0 0		
		Jhanti Rai	Do.	Sootehara	350 0 0		
		Luchoo Kumhar	Do.	Musharnia	900 0 0		
		Soneful Thakoor	Do.	Pipra Rudul Thakoor	600 0 0		
		Udit Singh	Do.	Pipra	800 0 0		
		Bhaiya Ram Raut	Do.	Sardarputte	700 0 0		
		Chethroo Shah	Do.	Sirsia	600 0 0		
		Dwarka Rai	Do.	Do.	700 0 0		
		Raghuni Singh	Do.	Lahooari	500 0 0		
		Suraj Mandal	Do.	Bhisma	600 0 0		
	Mozufferpore...	Maharajah Luchmessur Singh Bahadoor, of Durbhunga.	Do.	Dunna	1,300 0 0		
		Ditto ditto	Do.	Nacha	2,147 0 0		
		Ditto ditto	Do.	Lahowria	2,089 0 0		
		Ditto ditto	Do.	Bhonitpore	3,068 0 0		
		Tufani Raut	Do.	Narkatia	400 0 0		
		Mohun Tali	Do.	Indilia	600 0 0		
		Murdun Raut	Do.	Lalbanai	300 0 0		
		Dulhui Gulab Koer	Do.	Surnund	500 0 0		
		Surwan Pando	Do.	Banumdea	400 0 0		
		Chuni Sundi	Do.	Bishunpore	300 0 0		
		Achumbit Raut	Do.	Padedia	400 0 0		
		Shaikh Sakhawat	Do.	Mohuni	4,000 0 0		
		Mahar Sonar	Do.	Madhurapore	1,000 0 0		
		Mussomut Rajbunsi Koer	Do.	Rama Balha	7,050 0 0		
		Mahamud Raut	Do.	Dewari	500 0 0		
		Haji Mahi Mian	Do.	Bacharpore	300 0 0		
		Shaikh Nazaf	Do.	Sadwar	250 0 0		
		Gopal Thakoor	Do.	Bajidpore	300 0 0		
				Carried over ...	38,754 0 0	1,23,382 4 3	

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
				Brought forward ...	Rs. A. P. 36,754 0 0	Rs. A. P. 1,23,382 4 3	Rs. A. P. .....
		Mushai Mahto	Tank	Kurarbuma	1,500 0 0		
		Dhandai Mandar	Do.	Raghaipura	600 0 0		
		Bissesaur Ram Kandoo	Do.	Sursund	450 0 0		
		Thuga Jolaha	Do.	Rudunpura	500 0 0		
		Sheikh Rahmatoollah	Do.	Persa	200 0 0		
		Mohunt Shiu sam Das	Do.	Sursund	1,500 0 0		
		Sheikh Mooshaoolla	Do.	Adulpore	700 0 0		
		Gopal Jha	Do.	Malahi	500 0 0		
		Kishoonbullub Jha	Do.	Radhnoo	600 0 0		
		Mussomut Anpuchia	Do.	Belahia	200 0 0		
		Lachman Gowala	Do.	Borghari	600 0 0		
		Nathhar Sahoo Teli	Do.	Bhitha	600 0 0		
		Lalla Jha	Do.	Do.	2,100 0 0		
		Mussomut Rajbunsi Koer	Do.	Sursund	700 0 0		
		Maniar Kumhar	Do.	Bisputi	1,000 0 0		
	Mozufferpore ...	Mussomut Rajbunsee Koer	Do.	Inarwa	700 0 0		
		Tilak Mandar	Do.	Suniahi	2,000 0 0		
		Bania Gowalin	Do.	Ram Bhinahi	1,000 0 0		
		Bhoop Thakoor	Well	Haruri	500 0 0		
		Naram Tewari	Tank	Mushahunia	500 0 0		
		Ramdin Das	Do.	Bidrakh	1,500 0 0		
		Gobind Tewari	Do.	Maidan	300 0 0		
		Sheikh Emyret Hossain	Well	Goparia	250 0 0		
		Maharajah of Hutwa	Tank	Hathsar	700 0 0		
		Mohunt Sheoraj Gir	Do.	Nurha	700 0 0		
		Babu Deomundun Singh	Well	Sheohur	200 0 0		
		Tulsi Ojha	Tank	Gharwara	600 0 0		
		Soodi Rai	Do.	Bahoosra	250 0 0		
		Bhunjun Singh	Do.	Chounrahra	600 0 0		
		Saroop Mookha Koer	Do.	Sarhachia	1,000 0 0		
		Works costing less than Rs. 200 each	... ..	.....	14,528 0 0	74,032 0 0	
		Babu Nund Kumar Lal	Well	Besambarpore	200 0 0		
		Chintamun Mahto	Do.	Ami	300 0 0		
		Mahbub Mian	Do.	Pharhad	400 0 0		
		Bihari Sahu Kulwar	Do.	Lohiji	200 0 0		
		Maharajah of Hutwa	Do.	Raton Chuck	200 0 0		
		Ishur Singh	Do.	Makhdumgunge	300 0 0		
		Suba Rawat	Do.	Lodepore	400 0 0		
		Ghulam Hussein	Do.	Rajpur-Jalalpore	300 0 0		
		Rampaluck Raut	Do.	Kazipore	200 0 0		
		Dular Chand Sahu	Do.	Dhanowra	250 0 0		
PATNA—*concld.*	Sarun ...	Mussomut Lacho Bibi	Do.	Udaipura	300 0 0		
		Bilar Barai	Do.	Asan	200 0 0		
		Goruck Singh	Do.	Sadpur	200 0 0		
		Niaz Ali *alias* Nazai Mian	Do.	Ditto	350 0 0		
		Nuwab Rai	Do.	Bijai Gonda	200 0 0		
		Harukh Mullah	Do.	Pahlezah	200 0 0		
		Chutardhari Ahir	Do.	Ditto	200 0 0		
		Tilock Lall	Do.	Ditto	200 0 0		
		Ramchartur Singh	Tank	Chandparsa	1,000 0 0		
		Ratu Lall	Do.	Agrowli	400 0 0		
		Babu Lachmi Narain Singh	Do.	Arua	500 0 0		
		Ditto ditto	Do.	Piprahia	5,000 0 0		
		Works costing less than Rs. 200 each...	.....	.....	20,067 4 0	31,567 4 0	
		Birbul Bhagut	Tank	Bellwani Leyan	200 0 0		
		Hira Teli	Do.	Madhumabji	200 0 0		
		Sekh Fadeli	Do.	Ditto	200 0 0		
		Deep Chand Ahir	Well	Gokhula	200 0 0		
		Babu Bishun Pergash Sing	2 Tanks	Madhuban	1,500 0 0		
		Khodabux Ali	Bridge	Nawa Dih	250 0 0		
		Babu Lachuman Pershad	Tank	Siswa Patna	1,000 0 0		
		Gopal Ram	Well	Kessaria	300 0 0		
		Goor Panony	2 Wells	Bagshi	200 0 0		
		Wife of Chulahi Teli	Tank	Chintamanpore	1,500 0 0		
		Sheikh Hussain Ali	Do.	Dastrah	500 0 0		
		Golam Din	Do.	Ditto	500 0 0		
		Shaikh Kitab Ali	Do.	Barrewah	300 0 0		
		Dasunith Koeri	Well	Goorhanwah	250 0 0		
		Sarabjit Koeri	Do.	Ditto	250 0 0		
	Chumparun ...	Soomirna Koeri	Tank	Kamarcholi	350 0 0		
		Sir Bux	Do.	Sisahin	200 0 0		
		Harakh Dubay and Chhode, &c. ...	Do.	Patahi village	300 0 0		
		Juram Sah Teli	Do.	Babhiah	300 0 0		
		Tilak Roy	Do.	Ratan San	200 0 0		
		Abilakh	Do.	Madhurapore	200 0 0		
		Shaikh Bhikham and Boodh Ahir ...	Do.	Koodariah	400 0 0		
		Nathu Sah	Well	Doonwa village	200 0 0		
		Paluk Dusadh	Tank	Bagha	400 0 0		
		Joothi Teli	Do.	Chhowradans	800 0 0		
		Babu Beni Bhusan	Do.	Bhelwa Bazar	300 0 0		
		Dookhi Misser	Do.	Pipra	300 0 0		
		Purmeswar Tewari	Well	Bajidpore	200 0 0		
		Thakur Chowbey	Do.	Rampurwa	200 0 0		
		Works costing less than Rs. 200 each...	.....	.....	15,163 0 0	26,843 0 0	2,55,824-3-3
		Ram Sahoy Bhagat	Tank	Mahangunge	500 0 0		
		Mussomut Champa, daughter of Nak-too Singh.	Do.	Palo	500 0 0		
		Ram Lal Kumhar	Do.	Dusratpore	200 0 0		
		Banda Pandey	Do.	Palmigi	250 0 0		
		Megh Lal Roy	Do.	Karamai	500 0 0		
		Ambica Prosad	3 Tanks	Darba, Banda, Banga	700 0 0		
		Ganowri Mahton	Masonry well	Nawagurhi	200 0 0		
		Lala Singh	Do.	Paharpore	300 0 0		
		Munshi Mundar	Do.	Morhari	200 0 0		
		Ghurboo Kandoo	Do.	Etorhi	200 0 0		
		Pali Singh	Do.	Indupur	200 0 0		
BHAGULPORE...	Monghyr ...	Seeboo Singh	Do.	Surma	250 0 0		
		Ishwari Poddar	Do.	Bahisa	300 0 0		
		Masudan Mundar	Do.	Usri	200 0 0		
		Suphal Rai	Do.	Kunhaiyachak	200 0 0		
		Kesi Rai	Do.	Surhari	200 0 0		
		Hasibur Chowdhry	Do.	Pipra Okowtham	250 0 0		
		Chandi Charan Singh	Do.	Begusarai chak	200 0 0		
		Nankoo Sahain	Do.	Khambhi	300 0 0		
		Sital Singh	Do.	Majhoul	200 0 0		
		Sukhun Shah	Do.	Dunialpur	250 0 0		
		Karu Dhanook	Do.	Begumpur	200 0 0		
		Srinath Rai	Do.	Gowra	200 0 0		
		Mangal Sahu	Do.	Lukhanpur	300 0 0		
				Carried over ...	6,950 0 0		

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
				Brought forward ...	6,950 0 0	... ...	... ...
		Mussomut Ganesia Kalwarin	Masonry well ...	Manaar Chowk	225 0 0		
		Amal Rai	Do.	Rajapur	250 0 0		
		Sunsi Shah	Do.	Baro	250 0 0		
		Mussamut Patasia, wife of Dharmoo Singh.	Do.	Sahora	300 0 0		
	Monghyr ..	Lachman Choudhry	Do.	Tal	200 0 0		
		Bansi Misser	Do.	Lakhanpur	250 0 0		
		Durga Gope	Do.	Begumserai	200 0 0		
		Baij Nath Choudhry	Do.	Ahipur	200 0 0		
		Zahari Lal	Do.	Sabdulpur	250 0 0		
		Baij Nath Singh	2 Wells ...	Amawa	300 0 0		
		Ganga Prosad	Well	Belori	300 0 0		
		Tetur Mahton	Do.	Ekrawa	300 0 0		
		Sobrati Mirjan	2 Wells	Chandradip	250 0 0		
		Works costing less than Rs. 200 each	.....	.....	3,881 0 0	14,106 0 0	
		Raj Durbhunga	Bandh and Pyne .	Anwar Girdheri	280 0 0		
		Ditto	Do.	Bela Singor Mati	698 0 0		
		Ditto	Do.	Jhilki Jorowlu	297 0 0		
		Ditto	Do.	Nandpur Kubiahi	202 0 0		
		Ditto	Do.	Najabhuha	304 0 0		
		Ditto	Do.	Parsa Wado	981 0 0		
		Ditto	Do.	Peepra Kharo	250 0 0		
		Ditto	Do.	Bishenpur	501 0 0		
		Ditto	Do.	Sukhasan	847 0 0		
		Ditto	Do.	Murli Monespur	601 0 0		
		Ditto	Do.	Bhapteahi	243 0 0		
		Ditto	Do.	Dholi	654 0 0		
		Ditto	Do.	Rutanpurbonena	556 0 0		
		Ditto	Do.	Rutharwa	615 0 0		
		Ditto	Do.	Sadanandpur	512 0 0		
		Ditto	Do.	Kawalpur	703 0 0		
BHAGAL-PORE— *contd.*		Ditto	Do.	Jhilla Saidpur	207 0 0		
		Ditto	Do.	Dighia	1,015 0 0		
		Ditto	Do.	Kanouli	515 0 0		
		Ditto	Do.	Gyanpur Doodhela	618 0 0		
		Ditto	Do.	Sikrapatta	1,139 0 0		
		Ditto	Do.	Shahpur Kirthipotti	803 0 0		
		Ditto	Do.	Dharharwa	215 0 0		
		Ditto	Do.	Bowraha	428 0 0		
		Ditto	Do.	Gopalpur Rupowli	461 0 0		
		Ditto	Do.	Baisa	439 0 0		
		Ditto	Do.	Malik Sunpataha	520 0 0		
		Ditto	Do.	Kaira	263 0 0		
		Ditto	Do.	Chitahanumannagar	308 0 0		
		Ditto	Do.	Dagnara	1,314 0 0		
		Jhanta Mandar, Maloo Mandar, and Bhai Lal Mandar.	3 Tanks	Anwar Gurheri	1,830 0 0		
		Agarjeet and Totai Mandar ...	2 do.	Ashanpur Kupoha	1,600 0 0		
		Jhoomuk Das, Hooral, Kalru Gopal Badan.	4 do.	Belanagar Mote	1,570 0 0		
		Girdhari Mandar	Tank	Simri	630 0 0		
		Hari Nath Biswas, Bhikari Mandar and Brij Lal Gope.	3 Tanks	Jugdispur Jhowsi	1,300 0 0		
		Jhoomen Mandar, Bhola Mandar and Girdhari Kamat.	4 do.	Jhitki Jorawli	1,305 0 0		
		Gonder Misser	2 do.	Khep Belasungurh	876 0 0		
		Nanhi Sant	Tank	Khapbhoolias	456 0 0		
		Kanhaya Mander	Do.	Keorkallanpur	550 0 0		
		Kamtar Mandar	Do.	Majhowl Mahowa	905 0 0		
		Nathroo Mander, Manjhi, Lowji, Bhithur Mandar.	3 Tanks	Najabhoolia	1,400 0 0		
	Bhagulpore ...	Hira Sahoo	2 do.	Nirmali	1,951 0 0		
		Somman Mandal, Hur Charan Sahoo, and Bhinak Mandal.	4 do.	Parsa Madho	1,613 0 0		
		Doman Mandal	Tank	Simraha	402 0 0		
		Dhan put Raoot	Do.	Thari Lachmana	611 0 0		
		Harihar Pathuk, Hooras Mandal and Luchman Mali.	3 Tanks	Sookhasun ...●	1,305 0 0		
		Parsadi Mandal	Tank	Murli Mohespur	550 0 0		
		Kakra Manda', Kasi Mandal, Bhowdia Lubco Sarabjit Mandal, and Mussomut Mahdea.	4 Tanks	Soraigurh	2,357 0 0		
		Gopal Mandar	Tank	Gurhia	300 0 0		
		Gopal Raoot	Do.	Dholi	650 0 0		
		Sahik Paikra	Do.	Rukharwa	305 0 0		
		Babu Nath Misser and Jhoomuk Mandar.	2 Tanks	Ratanpur Bumnia	433 0 0		
		Palhut Manjhi	Tank	Badchaki	500 0 0		
		Shyam Mandar and Kasi Mandar ...	2 Tanks	Dighia	1,574 0 0		
		Sheeb Charan Sahoo, Tejoo Singh, Inderman Jha and Bulaki Sunri.	5 Tanks	Kunouli	2,588 0 0		
		Manjhi Mandar	Tank	Gopalpur Rupouli	315 0 0		
		Ganga Ram Mandal	Do.	Koreli	680 0 0		
		Burmi Kamat and Bhorosi Mandal ...	2 Tanks	Dagmara	1,242 0 0		
		Tota Mandal	Tank	Baisaha	550 0 0		
		Chuttar Mandal	Do.	Ramburhara	400 0 0		
		Bhikari Mandal	Do.	Tolimugra	700 0 0		
		Karman Mandal, Gopal Surdar and Bootun Raot.	3 Tanks	Malik San Patcha	1,525 0 0		
		Mohur Gope	Tank	Andowli	300 0 0		
		Brij Mandal	Do.	Bowraha Basaha	375 0 0		
		Gocool Mandal	Do.	Arahaetarhi	402 0 0		
		Jhoonuk Mandal	Do.	Ghagripoolharia	473 0 0		
		Manoo Choudhry	Do.	Kissenpur Kawas Jhari ...	551 0 0		
		Tooram Shah	Do.	Banka Hat	200 0 0		
		Prasad Misgir	Do.	Kissengunge	1,033 0 0		
		Hia Lal Bhakur	Do.	Laskkari	665 0 0		
		Janoruhan Singh	Do.	Simra	1,200 0 0		
		Birjoo Singh	Do.	Barail	1,000 0 0		
		Hirai Mandar	Do.	Majhwa	250 0 0		
		Palat Mandar	Do.	Araha	300 0 0		
		Irjan Shah	Do.	Madhubersa	300 0 0		
		Gopi Choudhuri	Do.	Persa	200 0 0		
		Kanhaya Mandar	Do. ●	Deghia	400 0 0		
		Jaguti Thakur	Do.	Lalgunge	600 0 0		
		Lochun Mandar	Do.	Barcocki	500 0 0		
		Jay Ram Chowdhuri	Do.	Lowkaha	800 0 0		
		Baij Mandar	Do.	Jhucksahi	500 0 0		
		Girdhary Mandar	Do.	Bela	500 0 0		
		Pershadi Mandar	Do.	Bairo	400 0 0		
		Rangi Mandar	Do.	Do.	400 0 0		
		Palut Amat	Do.	Luchminiatola	350 0 0		
				Carried over ...	62,056 0	14,106 0 0	

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A.
				Brought forward ...	62,055 0 0	14,106 0 0	.....
		Bhikari Koiri	Tank	Kalmagra	250 0 0		
		Ranga Mandar	Do.	Sisoni	809 0 0		
		Chutter Mandar	Do.	Pachgachia	400 0 0		
		Burmi Keot	Do.	Dugmara	500 0 0		
		Moosaimian Kunjra	Do.	Kamalgaon	800 0 0		
		Tejoo Singh Rajput	Do.	Koonowni	700 0 0		
		Inderman Jha	Do.	Ditto	800 0 0		
		Shib Charan Shah	Do.	Ditto	800 0 0		
		Boolaki Soonri	Do.	Ditto	500 0 0		
		Kamaldar Keot	Do.	arowlee	450 0 0		
		Khunter Gowala	Do.	Mahna	500 0 0		
		Domun Koiri	Do.	Rahria	500 0 0		
		Thethur Mandar	Do.	Bhoolia	600 0 0		
		Lowki Rajdhap	Do.	Ditto	600 0 0		
		Pershadi Koeri	Do.	Bisa	500 0 0		
		Mokrun Mandar	Do.	Jhowrah	900 0 0		
		Bhai Lal Mandar	Do.	Ditto	1,000 0 0		
		Hira Nath Mandar	Do.	Ditto	1,100 0 0		
		Nathoo Mandar	Do.	Loaghoonia	700 0 0		
		Krishna Mandar	Do.	Rajpore	800 0 0		
		Sihi Raj Dhope	Do.	Batharwa	800 0 0		
		Jhanti Mandar	Do.	Dhurrumpore	600 0 0		
		Bhugwan Teli	Do.	Bishenpore	600 0 0		
		Lalji Singh	Do.	Bihra	500 0 0		
		Gurdyal Mandar	Do.	Bulka Seamer	900 0 0		
	Bhagulpore ...	Lal Sahoo Teli	Do.	Ditto	1,200 0 0		
		Bahadur Kunjra	Do.	Satour	800 0 0		
		Bootun Sahu	Do.	Kamdaha	700 0 0		
		Behari Halvai	Do.	Telhur	500 0 0		
		Kitai Khan	Do.	Bangaon	600 0 0		
		Gidhan Khan	Do.	Ditto	500 0 0		
		Kasi Chahi	Do.	Amarpore	500 0 0		
		Girdhari Sahu	Do.	Telhur	500 0 0		
		Domur Sahu	Do.	Maisarboo	700 0 0		
		Ramdhan Gope	Do.	Sarowni	800 0 0		
		Gondur Gope	Do.	Ditto	700 0 0		
		Mussumut Boodhia Brahmini	Do.	Pipra	700 0 0		
		Ram Nath Misser	Do.	Bullooabazar	300 0 0		
		Goolab Mandar Koiri	Do.	Duhiahi	1,300 0 0		
		Buchi Sahu	Do.	Ditto	500 0 0		
		Ram Nath Misser	Do.	Bishenpore	400 0 0		
		Girdhari Keot	Do.	Jarowli	750 0 0		
		Kanoo Mandar	Do.	Satkoondria	300 0 0		
		Rohun Mandar	Do.	Lachmipore Chakla	600 0 0		
		Bechun Thakur	Do.	Adria	500 0 0		
		Bunsi Jha	Do.	Kethera	400 0 0		
		Jali Lal Marwari	Masonry well	Barahat	300 0 0		
		Sadho Sahu	Do.	Parbutta	1,000 0 0		
		Mussomut Moona Kurmini	Do.	Lakra	500 0 0		
		Toral Mull Marwari	Dharamshala	Kaziwolichak	10,000 0 0		
		Maharajah Hurbullub Narain Singh	Serai	Sonbursa	1,000 0 0		
Bhagul-pore—*concld.*		Works costing less than Rs. 200 each	.....	.....	1,923 0 0	1,06,637 0 0	
		Sheik Kanahri	Tank	Ghanoca	2,050 0 0		
		Bibi Jha	Do.	Dhagri	900 0 0		
		Asman Chowdhuri	Do.	Kukrowni	800 0 0		
		Kareh Biswas	Do.	Khasrait	650 0 0		
		Mussomut Parbati	Do.	Tetrai	500 0 0		
		Pet Lal Sha	Do.	Barhara	400 0 0		
		Mussomut Mohaka	Do.	Lokai	350 0 0		
	Purneah ...	Ramai Mandar	Do.	Bakantri	300 0 0		
		Dilwar Hossein	Do.	Bhariadangi	300 0 0		
		Bhai Lal Misser	Do.	Tira Khorda	280 0 0		
		Jadu Nath Jha	Do.	Ramnagar	233 0 0		
		Kasi Rai	Do.	Kuspokhur	215 0 0		
		Nazaf Ali	Do.	Chandbatti	200 0 0		
		Sadha Babu	Well	Rasakhna	300 0 0		
		Babu Lal Jha	Do.	Kudumtolahat	200 0 0		
		Works costing less than Rs. 200 each	.....	.....	425 0 0	8,103 0 0	
	Maldah ...	Ram Kumar Sarma	Tank	Shiana	1,000 0 0		
		Mahadeb Mandal	Do.	Jawbankonban	500 0 0		
		Purna Chunder Sarkar	Do.	Kharba	400 0 0		
						1,900 0 0	
		Jugalkishore Haldar	Bandh	Jeakhara Jhikti	300 0 0		
		Ram Charan Singh	Do.	Dubrajpore	500 0 0		
		Ram Charan Singh	Do.	Kunda	226 0 0		
	Sonthal Pergunnahs.	Raja Ram Bahadur Singh	Do.	Jamtara	300 0 0		
		Ram Charun Singh	Tank	Doobjora	282 0 0		
		Moorao Rai	Do.	Chunerpore	225 0 0		
		Narain Rai	Do.	Khairbuni	200 0 0		
		Ganes Rai	Do.	Ditto	200 0 0		
		Babu Ram Chunder Gowku	Dharamshala	Deoghur	16,000 0 0		
		Works costing less than Rs. 200 each	.....	.....	3,390 0 0	23,123 0 0	1,52,863
		Lalla Chand Dilsukraj, of Barabazar in Calcutta.	Dharmsalla	Chowliaganj, Nayabazar, pergunnah Bakrabad.	8,000 0 0		
		Rajah Badyanath Pundit, of Chandni Chouk in Cuttack.	Hospital	Chandni Chouk, in the town of Cuttack.	6,000 0 0		
	Cuttack ...	Barju Naik, of Khasparia, pergunnah Asureswar.	Tank	Khasparia, pergunnah Asureswar.	350 0 0		
		Kali Sahu, of Balipatna, pergunnah Olas.	Do.	Khatini, killah Madhupur ...	300 0 0		
		Works costing less than Rs. 300 each	.....	.....	214 12 0	14,864 12 0	
Orissa ...		Rajah Baikunthanath De Bahadoor, of Balasore.	Constructing a metalled road from Balasore to Nulkool.	Nulkool, police-station Balasore.	4,020 0 0		
		Birbhadra Sarangi, of Juggunathpore, pergunnah Sanhar.	Tank	Saumool Sing, police-station Soroh.	1,200 0 0		
	Balasore ...	Madan Mohun Das, of Panichator, pergunnah Banchas.	Do.	Rottera, police-station Soroh	700 0 0		
		Ram Nahuk, of Alda, pergunnah Beselkand.	Do.	Alda, police-station Soroh ...	590 0 0		
		Doorlabh Parhi, of Makulpore ...	Do.	Kalidaspore, police-station Basudebpore.	575 0 0		
				Carried over ...	7,085 0 0	14,864 12 0	

ISION.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand Total of division.
					Rs. A. P.	Rs. A. P.	Rs. A.
				Brought forward ...	7,085 0 0	14,864 12 0	.....
		Balbhadra Upadhya, of Ichapore, pergunnah Banchas.	Tank	Pakargur, police-station Soroh	400 0 0		
		Narin Naik, of Ryesoonan, pergunnah Talsahong.	Do.	Reysoonan, police-station Basta.	350 0 0		
		Narhari Pani, of Begunia, pergunnah Balkhand.	Do.	Thariapada, police-station Soroh.	300 0 0		
		Ouri Barik of Padhunpura	Do.	Padhunpura, police-station Bhudruck.	300 0 0		
		Babu Umesh Chandra Mundle, of Balasore.	Do.	Barasore, police-station Dhamnaggar.	250 0 0		
		Sheik Panchkouri Hosain, of Khukrapal, pergunnah kismut Katsahi.	Re-excavation of a tank	Khukrapal, police-station Baliapal.	200 0 0		
		Bisoo Panda, of Kamurda, pergunnah Kamurda.	A small tank	Kamurda, police-station Baliapal.	200 0 0		
	Balasore ...	Boido Dutt, of Khanupore, pergunnah Kamurda.	Ditto	Kurhoopur, police-station Bahapal.	225 0 0		
		Gobind Parmanik, of Padima, pergunnah Satmulang.	Ditto	Padima, police-station Baliapal.	260 0 0		
		Magun Das, of Barhampore, pergunnah Banchas.	Ditto	Sybera, police-station Soroh ...	200 0 0		
		Gobind Upadhya, of Asimla, pergunnah Bisalkand.	Ditto	Asonila, police-station Soroh ...	200 0 0		
		Anunta Kar, of Bagda, pergunnah Bisalkand.	Ditto	Bagda, police-station Soroh .	200 0 0		
		Bhikari Mahapatra, of Bontal ...	Ditto	Bental, police-station Bhudruck.	200 0 0		
		Mulli Mussu, of Durgapore ...	Ditto	Durgapore, police-station Bhudruck.	200 0 0		
		Babu Umesh Chundra Mandal, of Balasore.	Ditto	Pora, police-station Basudebpur.	200 0 0		
		Works costing less than Rs. 200 each	.....	.....	2,580 0 0	13,350 0 0	
		Raghu Das	Tank	Sunapudar, police-station Banpore.	2,700 0 0		
		Mohant Raghoonundan Ramanuj Das.	Do.	Juggurnathbulhub, police-station Pooree.	500 0 0		
		Mohunt Suntopersad Das	Do.	Gobindpore, police-station Pooree.	200 0 0		
		Banomullie Das	Do.	Ketkeepatna, police-station Pooree.	200 0 0		
	Pooree ...	Rajah of Parikood	Do.	Kushnopersad, police-station Pooree.	200 0 0		
		Bhobnee Biswal	Do.	Durrah, police-station Piplee	200 0 0		
		Michu Porerah	Well	Khungrea, police-station Khorda.	200 0 0		
		Works costing less than Rs. 200 each	.....	.....	787 8 0	4,987 8 0	33,202 4 0
	Hazaribagh ...	Works costing less than Rs. 200 each	.....	.....	404 0 0	404 0 0	
		Bakhoralal, of Lowar	Masonry well	Lowar, in police-station Chatterpur.	250 0 0		
	Lohardugga ...	Nothni Sahu, of Daltongunge	Do.	Rerma in police-station Daltongunge.	350 0 0		
		Works costing less than Rs. 200 each	.....	.....	100 0 0	700 0 0	
A NAG-IM.		Sahabaz Khan, of Bagmundi, police-station Bagmundi.	Tank	Nishintipur	400 0 0		
	Manbhoom ...	Khuchu Mahto, of Madaidi, pergunnah Katras, police-station Topechanchi.	Do.	Madaidi, pergunnah Katras ...	300 0 0		
		Works costing less than Rs. 200 each	.....	.....	380 0 0	1,080 0 0	
		Colonel W. L. Samuells	Deepening the Chybassa tank.	Chybassa	1,100 0 0		
		Bara Baboo, of Khas Seraikella ...	Bandh	Richituka, in Seraikella ...	400 0 0		
	Singbhoom ...	Baboo Ranjit Sing Deo, of Dugni ...	Do.	Choora, pergunnah Seraikella	500 0 0		
		Works costing less than Rs. 200 each	.....	.....	90 0 0	2,090 0 0	
							4,274 0 0

SUMMARY.

			Rs.	A.	P.
Total of	Burdwan	Division	43,741	1	0
Ditto	Presidency	do.	47,855	8	6
Ditto	Rajshahye	do.	71,909	10	0
Ditto	Dacca	do.	31,428	0	0
Ditto	Chittagong	do.	8,030	0	0
Ditto	Patna	do.	2,55,824	8	3
Ditto	Bhagulpore	do.	1,52,869	0	0
Ditto	Orissa	do.	33,202	4	0
Ditto	Chota Nagpore	do.	4,274	0	0
		GRAND TOTAL OF DIVISIONS ...	6,49,133	15	9

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 22nd November 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
	Western Districts.		
BURDWAN DIVN. 1	Burdwan Nov. 22, '90	Nil	Weather—bright and cold. Prospects of crops excellent. All agricultural operations in progress to the fullest extent. Price of common rice 16 seers per rupee on an average.
2	Bankoora ,, 22, '90	Nil	Weather—seasonable. *Nuan dhan* is being reaped. *Amun dhan* is ripening. *Rubbi* sowings still continue. Sugarcane doing well. Yesterday (21st) at about 1 P.M. a large swarm of winged locusts alighted at the Sudder station and many miles round it, doing much injury to the young *rubbi* plants, but, as far as known, none to rice. Report as to extent of damage not yet received. Common rice selling at 20 seers per rupee both at Sudder and Bissenpore.
3	Birbhum ,, 22, '90	Nil	Clear and fine weather. Prospects of crops continue to be excellent. Price of rice from 17 to 20 seers per rupee.
4	Midnapur ,, 22, '90	Nil	Weather—dry; winds northerly. Rice being cut in some places. In Ghatal rain would improve *rubbi* crops. Prices of common rice :— Srs. Sudder ... ... 16; Tumlook ... ... 16; Ghatal ... ... 16; Contai ... ... 19 } per rupee.
5	Hooghly ,, 22, '90	Nil	Weather—cold, especially at night. Prospects of all crops good. Harvesting of rice commenced. Prices of common rice :— Srs. Sudder ... ... 13; Serampore ... ... 13; Jehanabad ... ... 16¾ } per rupee.
	Howrah ,, 22, '90	Nil	Weather—seasonable. *Amun* crop doing well. Prospects good. Price of common rice 14 to 14½ seers per rupee.
	Central Districts.		
PRESIDENCY DIVN. 6	24-Perghs. Nov. 25, '90	Nil	Weather—seasonable. Prospects of *amun* crop excellent. Ploughing going on for winter crops. On the 18th there was a flight of locusts over the Bussirhat subdivisional head-quarters. The insects passed from north-west to south-east direction and did slight damage to *rubbi* crops. Prices stationary.
7	Nuddea ,, 22, '90	Nil	Weather—seasonable. Harvesting of *amun* and sowing of winter crops still going on. Prospects of crops good.
8	Khoolna ,, 22, '90	Nil	Weather—seasonable. Prospects of *amun* favourable except in the flooded area.
9	Jessore ,, 22, '90	Nil	Weather—seasonable. Harvesting of *amun* commenced and price of rice reduced in some places. Sowing of *rubbi* crops still going on. Agricultural loans are still being issued.
10	Moorshedabad ,, 22, '90	Nil	Weather—getting cool. Harvesting of *haimanti* rice commenced. *Rubbi* crops being sown. *Kalai* doing well. Prospects good.
RAJSHAHYE DIVN. 11	Dinagepur ,, 22, '90	Nil	Weather—seasonable. Prospects of crops continue good. Price of rice stationary. No more damage by locusts reported.
12	Rajshahye ,, 22, '90	Nil	Weather—dry and cool. Harvesting of winter paddy commenced. Prospects good. Prospects of ganja improving. *Rubbi* crops being sown.
13	Rungpur ,, 22, '90	Nil	Cold weather has set in. Everything promises fairly. Winter rice ripening and will be a heavy crop. A good deal of jute has remained uncut owing to a great fall in market price.
14	Bogra ,, 22, '90	Nil	Weather—seasonable. Winter rice generally doing very well, and in a few places harvesting has begun. *Rubbi* crops thriving where sown, and other lands are being prepared for them. Common rice selling at 15¾ seers per rupee.
15	Pubna ,, 22, '90	Nil	Weather—seasonable. Prospects of standing crops continue good. *Amun* is being reaped. Mustard and tobacco are being sown. Prices slightly lower.
16	Darjeeling ,, 22, '90	Nil	Weather—bright; mornings and evenings cold. Prospects of crops good. *Marwa* is being harvested. Winter rice doing well in the hills.
17	Julpigoree ,, 22, '90	Nil	Weather—seasonable. Prospects of crops favourable. Price of rice stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Div. 18	Dacca Nov. 22, '90	Nil	Weather—seasonable. Cultivation for winter crops going on. Late rice thriving. Price of common rice 12 to 16 seers per rupee.
19	Furreedpur ,, 22, '90	Nil	Weather—seasonable. State of standing crops fair. *Amun* paddy being harvested. Cultivation and sowing of winter crops in progress. Common rice selling at 13, 14 and 17 seers per rupee at the Sudder, Goalundo, and Madaripur subdivisional head-quarters respectively. Flight of locusts continuing since yesterday (21st); direction west to east; extent of damage cannot at present be estimated.
20	Backergunge ,, 22, '90	Nil	Weather—seasonable. State and prospect of crops fair. Common rice selling at about 13 seers per rupee.
21	Mymensingh ,, 22, '90	Nil	Weather—seasonable. Prospects of *amun* favourable. *Rubbi* sowings still continue. Price of common rice 12½ seers per rupee.
Chittagong Div. 22	Chittagong ,, 25, '90	Nil	Weather—seasonable. Harvesting of early winter rice commenced. Prospects of *amun* promising. Cultivation of vegetable crop continues. Prices unchanged.
23	Noakholly ,, 22, '90	Nil	Weather—seasonable. State of *amun* crop good. *Rubbi* crops progressing.
24	Tipperah ,, 22, '90	Nil	Weather—seasonable. Lands are being prepared for winter crops. *Amun* is being reaped. Prospects good. Prices stationary.
25	Chittagong Hill Tracts. ,, 20, '90	Nil	Weather—seasonable; dense fogs in nights and mornings. Gathering of cotton continues. Harvesting of early plough-paddy going on. Lands are still being ploughed in some places for mustard. Common rice is being sold at 11 seers 6¾ chittacks per rupee.
	Hill Tipperah ...	...	Report not received.
BEHAR.			
Patna Div. 26	Patna Nov. 22, '90	Nil	Weather—cool. Harvesting of paddy commenced in some places. Sowing of *rubbi* and poppy still continues. *Rubbi* crops already sown are growing well. *Rubbi* and cotton look flourishing. Prices of food-grains almost stationary.
27	Gya ,, 32, '90	Nil	Weather—cold and fair. Sowing of *rubbi* and poppy crops finished. Paddy harvest going on throughout the district. Prospects favourable. Prices of food-grains falling.
28	Shahabad ,, 22, '90	Nil	Weather—cool with passing clouds. All crops looking promising.
29	Durbhunga ,, 22, '90	Nil	Weather—getting cool. Harvesting of rice crop commenced in places. *Rubbi* crops look promising. Poppy sowing in progress. Price of common rice falling.
30	Mozufferpur ,, 22, '90	Nil	Weather—seasonable. Prospects of all crops continue excellent. Weather very favourable for poppy cultivation.
31	Sarun ,, 22, '90	Nil	Weather—bright and cool at night. *Rubbi* sowings nearly completed. Prospects excellent. Poppy sowings rapidly progressing.
32	Chumparun ,, 22, '90	Nil	Weather—seasonable. Paddy beginning to ripen. *Rubbi* and poppy sowings progressing and are germinating freely owing to the soil having plenty of moisture.
Bhagulpore Div. 33	Monghyr ,, 22, '90	Nil	Weather—seasonable. State and prospects of winter rice continue favourable. *Rubbi* sowings still going on; early sowings have germinated well.
34	Bhagulpore ,, 22, '90	Nil	Weather—rather warm for the season. *Rubbi* sowings drawing to a close. Prospects of all crops good.
35	Purneah ,, 22, '90	Nil	Weather—somewhat hot during the day; nights cool. In spite of partial damage by floods, a full *aghani* crop may be expected. *Rubbi* crops doing well and promise a good harvest.
36	Maldah ,, 22, '90	Nil	Weather—seasonable Prospects of crops good. Common rice selling at from 13 to 18 seers per rupee.
37	Sonthal Perghs. ,, 22, 90	Nil	Weather—seasonable. Prospects of all crops good. Harvesting of early rice in progress, and a full outturn expected. Common rice selling at 22 seers per rupee.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	38	Cuttack ...	...	Report not received.
	39	Pooree „ 20, '90	Nil	Weather—seasonable. Early *sarad* rice being harvested; outturn estimated at 14 annas. Late *sarad* in ear. Miscellaneous crops doing well. Price of rice 21 to 29 seers per rupee.
	40	Balasore „ 22, '90	Nil	Weather—seasonable. Early winter rice is still being harvested.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	41	Hazaribagh Nov. 22, '90	Nil	Weather—clear and cold. Harvesting of winter rice continues. *Rubbi* sowings nearly completed. Prospects of crops good. Common rice selling at 20 seers per rupee.
	42	Lohardugga „ 22, '90	Nil	Weather—seasonable. Harvesting of winter rice continues. Rain badly wanted for *rubbi*. Prices steady.
	43	Singbhoom „ 22, '90	Nil	Weather—seasonable. Paddy being harvested with a full crop everywhere except in thanna Chakradhurpur, where the outturn is from 8 to 12 annas. *Rubbi* crops thriving. Tussur cocoons expected to yield 16 annas except at Dumuria, where the crop is only 2 annas, and at Baharagora, where it is 8 annas Extent of mustard seed sowings from one anna in Chakradhurpur and Asanboni to 16 annas in Kolhapur.
	44	Manbhoom „ 22, '90	Nil	Weather—dry and fairly cool. Harvesting of winter rice in full swing. Prospects generally favourable.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 25th November, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (*RETAIL*) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH NOVEMBER 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan ...	14 0	14 0	13 4	...	...	...	12 12	12 6	12 0	16 2	16 9	16 13	...	...	...
2	Bankoora ...	13 12	14 0	13 12	18 0	18 0	14 8	17 0	17 0	15 0	20 0	19 0	19 0		...	...
3	Beerbhoom ...	17 4	17 4	15 0	...	...	...	13 8	13 8	12 0	16 8	16 8	15 0	...	...	...
4	Midnapore ...	10 8	10 8	13 8	...	...	...	11 0	13 0	12 8	16 0	16 12	15 8	..	...	...
5	Hooghly ...	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	..	...	...
	Howrah ...	...	...	...	...	...	...	10 0	10 0	9 8	14 0	13 8	13 8	...	...	...
	Central Districts.															
	Calcutta	13 3	13 6	13 4	17 10	17 15	16 13	8 10	8 12	8 2	13 3	13 1	12 12	16 0	..	16 10
6	24-Pergunnahs	13 0	14 0	14 0	18 0	20 0	16 0	8 0	8 0	7 8	15 0	15 0	15 0	...	...	...
7	Nuddea	15 10	15 4	14 14	17 12	16 0	16 0	11 6	11 6	10 8	15 4	13 10	12 6	...		...
8	Khoolna ...		...	...	...		...	12 8	12 0	11 0	15 0	14 8	14 0	..	...	...
9	Jessore	13 0	13 0	13 5	..	...	...	11 0	11 0	9 0	13 0	13 0	12 0	...	...	...
10	Moorshedabad	16 0	16 0	16 0	...		...	10 0	10 0	10 8	16 0	16 0	15 0	..	...	...
11	Dinagepore	15 10	15 10	16 0	18 0	21 12	23 0	15 0	13 4	13 4	18 0	16 12	17 12	...	.	...
12	Rajshahye	16 8	16 8	15 0	24 0	19 8	20 10	12 12	12 12	9 12	15 15	15 0	12 12	..	..	...
13	Rungpore	13 5	13 5	13 5			...	9 6	9 6	9 6	13 5	13 5	12 4	...	...	...
14	Bogra ...	15 0	15 0	13 8	...	...	..	12 0	12 0	12 0	15 12	14 4	14 4	...	...	...
15	Pubna	18 12	18 0	16 14				7 5	7 5	7 8	15 8	14 4	15 0		.	...
16	Darjeeling ..	8 0	8 0	10 0	10 0	9 0	9 0	5 0	5 0	5 0	13 0	12 0	12 0	.	...	...
17	Julpigoree	13 0	13 0	12 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	14 0	.	...	...
	Eastern Districts.															
18	Dacca ..	12 0	12 0	13 0	14 0	14 0	20 0	13 0	13 0	10 0	14 0	14 0	12 0	...	...	...
19	Furreedpore ...	18 0	16 0	13 0	25 0	20 0	...	12 0	10 0	8 0	14 0	13 0	12 0	...	..	...
20	Backergunge ...	...	..	...	.	...	..	12 4	11 12	10 4	13 4	13 4	15 0	...	...	...
21	Mymensingh ...	11 4	12 0	10 0	..	...	..	10 0	10 0	9 0	12 12	13 0	10 0	..	...	...

A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Ramsegunge 10 seers.
B At Rampore Haut retail price of salt 9½ seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 9 seers, Tumlook 8 seers, and Ghatal 11 seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 10½ seers and Jehanabad 11 seers.
E In subdivisions retail prices of salt per rupee are :—Barasat 10 seers, Basirhat 10 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpore 11 seers, Choondanga 10 seers, and Ranaghat 10 seers.
G In subdivisions retail prices of salt per rupee are :—Satkhira 10 seers and Bagirhat 8 seers.

he Districts of Bengal on the 15th November, 1890.

SEERS OF 80 TOLAHS.

BAJRA OR CUMBU. (*Penniscetum typhoideum.*)			MARUA OR RAGI. (*Eleusine Coracana.*)			FIREWOOD.		SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	h. S. Ch.	S Ch.	S. Ch.	S. Ch	S Ch.	Rs. a. p.	Rs. a. p	Rs. a. p.	
														BENGAL.
														Western Districts.
...	...	...	...	..	...	0 100	0 100	0 11 A 2-1	11 k 2-2	10 5	3 7 6	3 7 6	3 11 3	Burdwan.
...	...	...	...	...	...	0 28	28	0 10 8	10 8	10 0	3 10 0	3 10 0	3 15 0	Bankoora.
...	...	...	...	...	...	0 160	0 160	0 10 B 8	10 8	10 8	3 10 0	3 10 0	3 10 0	Beerbhoom.
...	...	...	...	...	....	0 120	0 160	0 10 C 8	10 8	10 3	3 13 0	3 13 0	3 15 0	Midnapore.
...	...	...	...	...	...	0 120	0 120	0 9 D 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.
...	...	...	...	...	...	0 100	0 100	0 10 8	10 8	9 2	3 8 0	3 8 0	3 14 0	Howrah.
														Central Districts.
10 9	8 14	11 1	...	...	...	0 90	4 100	0 10 10	10 4	9 12	3 7 6	3 10 5	3 12 11	Calcutta.
...	...	...	...	...	...	0 100	0 100	0 10 E 12	10 12	10 0	3 6 6	3 6 6	3 9 6	24-Pergunnahs.
...	...	...	...	...	...		... ...	F 9	9 13	9 2	3 12 0	3 12 0	3 14 0	Nuddea.
...	...	...	...	...	...	0 160	0 140	0 8 G 0	8 0	8 0	4 0 0	4 0 0	4 8 0	Khoolna.
...	...	...	...	...	...	0 160	0 160	0 9 H 2	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.
...	...	...	...	...	...	0 200	0 220	0 10 I 12	10 12	11 0	3 12 0	3 12 0	3 8 0	Moorshedabad.
...	..	...	...	...	...	0 160	0 160	0 10 J 0	10 0	8 12	4 0 0	4 0 0	4 8 0	Dinagepore.
...	...	...	...	...	...	0 240	0 240	0 9 K 9	9 9	9 9	3 13 4	3 13 4	4 2 3	Rajshahye.
...	...	...	...	...	...	0 100	0 100	0 9 L 6	9 6	8 14	4 4 0	4 4 0	4 8 0	Rungpore.
...	...	...	...	...	...	0 90	0 90	0 9 0	9 12	9 0	4 0 0	4 0 0	4 2 8	Bogra.
..	...	...	...	...	...	0 200	0 200	0 8 M 15	8-11-2 k	8-11-2 k	3 14 0	3 14 0	4 1 0	Pubna.
...	...	...	16 0	15 0	13 0	0 120	0 120	0 8 N 0	8 0	7 0	5 0 0	5 0 0	5 0 0	Darjeeling.
...	...	...	...	...	...	0 200	0 128	0 10 O 0	9 0	9 0	4 0 0	4 0 0	4 2 0	Julpigoree.
														Eastern Districts.
...	...	...	...	...	...	0 120	0 160	0 9 P 12	9 12	10 0	4 0 0	4 0 0	3 15 0	Dacca.
...	...	...	...	...	...	0 120	0 120	0 10 0	10 0	9 0	3 14 0	3 14 0	4 4 0	Furreedpore.
...	...	...	...	...	...	0 100	0 120	0 10 Q 10	10 10	10 0	3 12 0	3 12 0	4 0 0	Backergunge.
...	...	...	...	...	...	...	...	9 R 8	9 8	8 8	4 0 0	4 2 0	4 8 0	Mymensingh.

rupee are :—Jungipore 10 seers, Lalbagh 10½ seers, and Kandi 11 seers.
eers per rupee.
ar rupee are :—Nattore 9 seers and Nowgong 9 seers 9 chittacks.
r rupee are :—Kurigram 8 seers, Nilphamari 9 seers, and Gaibanda 8 seers
eers per rupee.

N At Siliguri wholesale price or stare ns. 4-4 per maund.
O In Alipore subdivision (at Fallacutta) retail price of salt 8 seers per rupee.
P In subdivisions retail prices of salt per rupee are :—Maniekgunge 9 seers, Moonsheegunge 8½ seers and Naraiagunge 10 seers.
Q In subdivisions retail prices of salt per rupee are :—Perozepore 9 seers, Bhola 8 seers, and Patuakhali 9 seers.
R In subdivisions retail prices of salt per rupee are :—Kisheregunge 8 seers, Jamalpore 8½ seers, Sherpore 8 seers and Netrakona

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																		
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	12 0	11 0	10 0	...	...	...	11 0	12 0	8 0	15 14	15 12	15 0	..	...	...
23	Noakholly ...	...	...	...	..	...	...	14 8	14 0	11 0	16 0	15 0	13 0	...	...	...
24	Tipperah ...	10 0	10 0	12 5	.	...	.	11 7	10 0	10 10½	16 0	13 14½	17 12½		...	...
25	Chittagong Hill Tracts.	..	...	...	...	...	...	10 5	10 5	9 6	11 6¾	11 6¾	10 0	...	..	...
	Hill Tipperah*	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
	BEHAR.															
26	Patna ..	17 2 / 15 12	Red. 16 12 / White. 15 12	18 0 / 16 8	19 0	17 0	21 0	11 0	11 0	10 0	17 0	16 4	16 8	...	...	24 0
27	Gya ...	15 8	15 4	14 12	19 0	18 12	18 0	10 0	10 0	10 0	17 0	17 0	16 8	...	...	...
28	Shahabad ...	15 8	15 8	14 0	16 0	16 0	20 0	9 0	9 0	9 0	15 0	16 0	12 0	...	...	...
29	Durbhunga ...	14 0	13 4	16 0	17 9	16 8	14 13	12 0	13 0	14 4	16 8	16 8	20 0	...	...	...
30	Mozufferpore ...	16 0	16 0	12 8	17 0	18 0	18 8	8 0	9 0	9 0	14 0	14 0	14 0	...	..	...
31	Sarun ...	14 8	15 8	15 8	16 8	16 0	19 8	8 8	8 4	8 8	14 14	14 8	11 12	...	...	...
32	Chumparun ...	16 0	16 0	12 0	21 0	19 0	12 0	9 0	9 0	8 0	17 0	16 0	18 0	.	...	...
33	Monghyr ...	15 12	16 12	18 14	17 13	16 12	18 14	11 0	11 0	11 9	14 11	15 3	13 10	...	...	...
34	Bhagulpore ...	16 7	16 6	17 10	18 15	20 3	18 15	10 1 / 12 10	Old. 10 11 / New. 12 10	12 0 / ...	12 10 / 15 2	Old. 13 14 / New. 15 12	16 6 / ...	...	...	...
35	Purneah ...	15 0	16 0	17 0	...	...		15 0	15 0	13 0	17 0	17 0	20 0	...	..	...
36	Maldah ...	17 0	18 0	14 0	...	...	.	11 0	11 0	12 0	15 8	16 0	14 0	...	...	...
37	Sonthal Perghs.	14 0	14 0	15 0	...	..	.	13 0	12 0	13 0	20 0	15 0	16 0	...	...	...
	ORISSA															
38	Cuttack ...	13 2	14 7	13 2	.	.	...	10 8	10 8	10 8	18 6	21 0	17 0	...	...	...
39	Pooree ...	14 7	14 7	13 2	...	...	...	14 7	14 7	13 2	21 0	21 0	17 1	..	...	...
40	Balasore ...	15 0	15 0	15 0	13 0	13 0	13 0	13 0	12 0	13 0	22 0	22 0	22 0	..	..	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
41	Hazaribagh ...	14 0	14	13 0	16 0	17 0	15 0	10 0	10 0	10 0	19 0 / 21 0	16 0 (new) / 20 0	17 0	...	...	...
42	Lohardugga ...	13 0	Red. 14 0	13 0	21 0	...	13 0	13 12 / New. 16 0	13 8	13 0	18 0	New. 18 0 / Old. 16 0	15 8	...	...	...
43	Singbhoom ...	16 0	12 0	10 0	20 0	17 0	12 0	14 0	14 0	16 0	16 0	15 0	20 0	.	..	...
44	Manbhoom ..	13 5	13 5	12 0	28 0	28 0	...	13 0	13 0	14 0	23 0	20 0	24 8	...	...	...

* Return not received.

S At Cox's Bazar retail price of salt 8 seers per rupee.
T At Feni Hát retail price of salt 8½ seers per rupee.
U In subdivisions retail prices of salt per rupee are :—Buxar 10½ seers, Sasseram 10½ seers, and Bhabuah 9½ seers.
V In subdivisions retail prices of salt per rupee are :—Madhubani 10 seers and Samastipore 11 seers.
W In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.
X At Bettiah retail price of salt 10 seers per rupee.

CALCUTTA,
The 25th November, 1890.

Station Bazars of the Districts of Bengal on the 15th November, 1890—(concluded).

SEERS OF 80 TOLAHS.

BAJRA OR CUMBU. (*Pennisetum typhoideum.*)			MARUA OR RAGI. (*Eleusine Coracana.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	22 0	26 8	
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	26 7	26 0	29 8
...	...	...	25 0	24 0	...
...	...	...	21 0	22 0	21 0
...	...	...	28 0	28 0	24 8
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	30 0	29 0	35 0
...	...	...	40 0	42 0	50 0
...	...	...	...	...	...
...	...	...	...	...	...

FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
									Eastern Districts—concluded.
Ch.	S. Ch.	S. Ch.	S h.	S. Ch.	S Ch	Rs. A. P.	Rs A. P.	Rs. A. P.	
			S						
10 0	110 0	100 0	10 0	10 0	9 0	3 14 0	3 14 0	1 0 0	Chittagong.
			T						
...	...	...	9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
...	...	...	10 0	10 0	8 14	4 0 0	4 0 0	4 8 0	Tipperah.
0 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
...	...	...	...	...	...	...	...	...	Hill Tipperah.
									BEHAR.
0 0	120 0	130 0	9 8	10 0	9 8	3 10 0	3 10 0	3 14 0	Patna.
0 0	160 0	200 0	10 0	10 0	9 2	4 2 0	4 2 0	4 2 0	Gya.
			U						
0 0	120 0	140 0	10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Shahabad.
			V						
0 0	160 0	200 0	11 0	11 0	11 4	3 8 0	3 8 0	3 8 0	Durbhunga.
			W						
10 0	160 0	160 0	10 0	10 0	10 0	4 0 0	3 4 0	3 12 0	Mozufferpore.
10 0	180 0	160 0	10 4	10 4	9 8	3 14 0	3 13 0	4 2 0	Sarun.
			X						
10 0	160 0	160 0	10 0	10 0	10 0	3 13 0	3 11 0	4 1 0	Chumparun.
			Y						
18 0	168 0	117 0	9 15	9 15	9 8	3 13 0	3 13 0	4 0 0	Monghyr.
21 8	151 8	164 0	10 8	10 0	10 1	3 11 0	3 14 6	4 0 0	Bhagulpore.
			Z						
10 0	130 0	200 0	9 0	9 0	9 0	4 7 0	4 7 0	4 7 0	Purneah.
10 0	120 0	120 0	9 0	9 0	8 0	4 0 0	4 0 0	5 0 0	Maldah.
10 0	200 0	200 0	9 0	9 0	9 4	3 14 0	3 14 0	1 0 0	Sonthal Perghs.
									ORISSA.
0 0	80 0	80 0	11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	Cuttack.
0 0	80 0	80 0	9 13	9 13	11 13	3 12 0	3 12 0	3 6 0	Pooree.
			Z1						
0 0	160 0	160 0	10 0	10 0	9 0	3 14 0	3 14 0	4 2 0	Balasore.
									CHOTA NAGPORE.
									South-West Frontier Agency.
0 0	240 0	320 0	8 0	8 0	8 0	4 2 0	4 3 0	4 8 0	Hazaribagh.
			Z2						
0 0	130 0	140 0	9 0	9 0	8 8	4 2 0	4 2 0	4 9 0	Lohardugga.
0 0	240 0	200 0	9 0	9 0	7 0	4 6 0	4 6 0	5 8 0	Singbhoom.
			Z3						
0 0	200 0	200 0	9 14	9 14	9 0	3 14 0	3 12 0	4 2 6	Manbhoom.

rupee are :—Beguserai 9¼ seers and Jamui 9 seers.
retail price of salt 10 seers per rupee.
per rupee
rs 2 chittacks per rupee.
s per rupee.

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P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Sal

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 12 10	2 11 10	2 12 3	2 0 2	1 15 6	2 1 10	4 5 10	4 5 2	4 10 0	2 12 3	2 12 11	2 13 9
2	Serajgunge ...	1 12 0	2 4 0	2 2 0	...	...	...	4 10 0	4 13 0	4 8 0	3 4 0	3 4 0	2 0 0
3	Dacca ...	3 4 0	3 4 0	3 0 0	2 12 0	2 12 0	1 15 0	3 0 0	3 0 0	3 15 0	2 13 0	2 13 0	3 8 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 0 0	3 12 0	2 12 0	2 12 0	3 4 0
5	Chittagong	3 4 0	3 8 0	3 12 0	...	...	...	3 8 0	3 4 0	4 8 0	2 8 0	2 8 0	2 10 0
6	Patna ...	2 5 0 (Red.) / 2 8 0 (White.)	2 5 6 / 2 8 0	2 3 0 / 2 6 9	2 0 0	2 5 0	1 14 0	3 8 0	3 8 0	3 14 0	2 5 6	2 6 0	2 5 6
7	Balasore ...	2 8 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	3 0 0	1 13 0	1 13 0	1 12 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 3	1 14 3	2 5 9
	Cuttack ...	3 0 0	2 10 0	3 0 0	...	...	...	3 10 0	3 10 0	3 0 0	2 2 0	1 11 0	2 6 0

CALCUTTA,
The 25th November, 1890.

gal on the 15th November, 1890.

PRICES PER MAUND

Jowar or Cholum. (*Sorghum Vulgare.*)			Bajra or Cumbu. (*Pennisetum typhoideum.*)			Arhar or Thur. Cadjan Pea. (*Cajanus indicus.*)			Firewood.			Salt.			Marts.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	P. R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 3 6	...	2 2 1	3 5 7	4 0 4	3 5 5	2 2 8 11	2 5 6	2 0 3	0 5 9	0 5 9	0 5 6	3 7 6	3 10 5	3 12 11	Calcutta.
...	...	...	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	3 14 0	Serajgunge.
...	...	...	...	...	...	2 8 0	2 8 0	2 12 0	0 5 0	0 5 0	0 4 0	4 0 0	4 0 0	3 15 0	Dacca.
...	..	...	...	...	...	3 4 0	3 8 0	3 12 0	0 8 0	0 8 0	0 8 0	3 11 0	3 12 0	4 0 0	Naraingunge.
...	...	...	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	4 0 0	Chittagong.
...	...	1 10 0	...	...	...	0 ...	2 0 0	1 12 0	0 5 0	0 5 0	0 5 0	3 10 0	3 10 0	3 14 0	Patna.
...	...	...	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 2 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 12 0	3 12 0	3 6 0	Pooree.
...	...	..	...	...	...	2 2 0	2 0 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Cuttack.

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P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

STATION OBSERVATIONS.

Meteorological Division	District.	Representative station.	Air pressure. Mean barometric height, 8 A.M.	Air pressure. Mean reduced to sea-level.	Air pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
Orissa.	Pooree	Pooree	30·067	30·080	—	N	113	83·7	15, 17 Nov.	63·6	18th Nov.	82·6	66·2	74·4	—	68·6
		Gopalpore	30·071	30·093	+·103	NNW	178	84·2	15th ,,	61·9	19th ,,	81·5	63·9	72·7	—1·8	72·0
		False Point	30·059	30·081	+·060	NNW	110	83·4	15th ,,	58·0	19th ,,	81·4	60·3	70·9	+2·0	68·5
	Cuttack	Cuttack	30·014	30·099	+·079	Calm	16	86·4	15th ,,	59·8	18, 19 ,,	84·4	61·8	73·1	—1·4	67·2
	Balasore	Balasore	30·039	30·100	+·070	NNW	?	84·4	15th ,,	56·5	17, 18 ,,	82·5	58·7	70·6	—0·6	66·7
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Sangor Island	30·055	30·082	+·066	NNE	171	81·2	16th ,,	62·4	16, 17 ,,	79·7	64·3	72·0	+0·3	68·3
	Midnapore	Midnapore	29·934	30·091	+·052	N	86	86·3	15th ,,	56·2	16, 17 ,,	83·7	58·5	71·2	0	67·1
	24-Pergunnahs, Howrah, Hooghly	Calcutta	30·064	30·086	+·062	Calm	21	81·0	15th ,,	57·3	16th ,,	79·8	59·9	69·9	—2·3	67·5
	Burdwan	Burdwan	29·902	30·097	+·058	Calm	23	84·0	15th ,,	57·6	16th ,,	82·2	61·3	71·8	—0·6	66·6
	Bankoora	Bankoora	29·762	30·082	+·050	W	42	85·1	15th ,,	55·8	16, 17 ,,	82·6	57·7	70·2	—2·4	63·9
	Beerbhoom, West Burdwan	Raneegunge	29·767	30·119	+·075	NW	38	83·3	15th ,,	55·2	16th ,,	81·6	57·6	69·6	—1·0	63·9
East Bengal.	Moorshedabad	Berhampore	30·016	30·086	+·053	North-Westerly	29	82·1	15th ,,	59·7	15th ,,	80·7	62·3	71·5	—0·4	67·4
	Nuddea	Krishnaghur	30·027	30·077	+·056	NNW	51	84·8	15th ,,	54·1	16th ,,	83·1	58·0	70·6	—1·7	69·5
	Jessore, Khoolna	Jessore	30·040	30·075	+·059	Calm	7	83·7	15th ,,	60·0	16th ,,	82·4	62·1	72·3	—2·2	69·1
	Chittagong	Chittagong	29·972	30·065	+·067	W	38	84·7	19th ,,	62·8	15th ,,	82·5	?	?	?	69·1
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	30·043	30·056	+·071	Calm	27	82·3	16th Nov.	61·6	18th ,,	81·2	63·2	72·2	—0·1	71·1
	Noakholly	Noakholly	30·026	30·071	+·087	N	53	83·0	15, 20, 21 Nov.	61·0	16, 17, 19 & 20 Nov	82·5	61·6	72·1	—0·9	71·7
	Furreedpore	Furreedpore	30·039	30·080	+·081	Calm	15	80·5	16th ,,	62·0	16, 21 ,,	70·8	62·8	71·3	—0·8	70·7
	Dacca	Dacca	30·031	30·054	+·052	E	61	84·1	15, 19, 20 Nov.	61·8	21st ,,	83·5	63·6	73·6	+0·3	70·7
	Commillah	Commillah	30·025	30·062	+·069	Variable	12	84·4	19th ,,	59·7	20th ,,	83·1	61·2	72·2	—0·4	69·7
	Mymensingh	Mymensingh	30·012	30·072	+·072	Easterly	31	81·6	15th ,,	59·8	21st ,,	80·9	62·0	71·5	—1·4	69·7
North Bengal.	Bogra	Bogra	29·986	30·051	+·072	N	20	82·1	15th ,,	60·1	21st ,,	80·6	61·1	70·9	—0·6	68·7
	Pubna	Serajgunge	30·018	30·066	+·055	N & NE	16	82·1	15th ,,	59·8	16th ,,	81·2	60·6	71·0	0	68·7
	Rajshahye	Rampore Beauleah	30·004	30·077	+·068	NNE	49	81·0	15th ,,	58·9	16th ,,	80·2	62·3	71·3	+2·2	69·7
	Maldah	Maldah	30·008	30·092	—	NW	81	83·7	15th ,,	56·5	16th ,,	82·2	60·1	71·2	—	68·7
	Dinagepore	Dinagepore	29·930	30·062	+·026	Variable	?	82·1	16, 17 ,,	59·2	15, 16 ,,	81·5	60·9	71·2	+0·9	64·7
	Rungpore	Rungpore	?	?	?	NE	?	81·9	19th ,,	60·3	15th ,,	81·3	61·2	71·3	+1·4	69·7
	Julpigoree, Cooch Behar	Julpigoree	29·970	30·090	+·061	?	?	81·6	19th ,,	60·1	18, 20, 21 Nov.	80·6	60·7	70·7	+1·0	67·7
	Darjeeling Hill Tracts	Darjeeling	23·076	—	+·016	North-Eastern	82	54·8	19th ,,	37·9	21st ,,	53·3	41·0	47·2	—0·3	47·7
North Behar.	Purneah, North Bhagulpore	Purneah	29·960	30·093	+·056	Westerly & Calm	32	81·0	20th ,,	56·0	16th ,,	79·9	58·3	69·1	—0·4	64·7
	Mozufferpore	Mozufferpore	29·894†	30·085†	—	Calm	30†	81·3†	15th ,,	59·3*	17th ,,	80·1†	60·1	70·0*	—	61·7
	Durbhunga	Durbhunga	29·934†	30·110†	+·051†	WSW	23	81·9	15th ,,	56·0	15th ,,	80·8	57·7	69·3	—1·3	68·7
	Chumparun	Motihari	29·868	30·106	+·072	Variable	47	81·2	15 & 16 ,,	54·9	16th ,,	80·5	54·6	67·0	—0·3	68·7
	Saran	Chupra	29·883	30·087	+·051	Calm	18	82·3	15th ,,	57·4	17th ,,	80·3	59·3	69·8	+0·7	68·7
South Behar.	Shahabad	Dehree	29·734	30·110	+·044	SW	45	83·3	15th ,,	51·5	17th ,,	81·7	53·6	67·7	—1·2	68·7
		Buxar	?	?	?	Variable	54	82·4	15, 16 ,,	52·4	16th ,,	80·3	55·3	67·9	—1·4	68·7
		Arrah	29·889	30·090	+·050	Variable	8	83·1	15th ,,	51·1	17, 18 ,,	81·4	52·8	66·8	—1·7	68·7
	Gya	Gya	29·714	30·117	+·051	S	109	83·9	15th ,,	52·2	18th ,,	81·8	53·7	67·8	—2·3	68·7
	Patna	Bankipore	29·914	30·107	+·039	Westerly & Calm	34	81·8	15th ,,	52·6	18th ,,	79·9	55·9	67·9	—1·8	68·7
	South Bhagulpore, Monghyr	Bhagulpore	29·916	30·086	+·052	Calm	3	80·8	15th ,,	54·5	16th ,,	79·9	56·0	68·4	—0·5	68·7
	Sonthal Pergunnah	Doomka	29·574	30·039	+·061	Calm	32	82·1	15th ,,	52·8	16th ,,	80·5	56·6	68·6	—0·6	68·7
Chutia Nagpur.	Hazaribagh	Hazaribagh	28·031	30·120	+·038	Westerly & Calm	43	79·3	21st ,,	52·0	17th ,,	78·1	54·0	66·1	—0·5	68·7
	Lohardugga, Manbhoom	Ranchee	27·905	30·104	+·043	Calm	76	79·3	15th ,,	49·5	17th ,,	77·7	51·2	64·5	—0·5	68·7
	Singbhoom	Chyebassa	29·315	30·115	+·080	WSW	21	86·4	15th ,,	51·5	18th ,,	83·4	55·0	69·2	—0·7	68·7

* Mean of five days. | † Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the
The *humidity* of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numl
are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the
stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 21st of November 1890.

Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. RAINFALL. Of week. Mean for district.	Of week. Normal mean.	Since 1st of month. Mean for district.	Since 1st of month. Normal mean.	Since 1st of month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
83	0	Nil	Nil	0·44	1·82	2·01	−0·19	65·77	54·34	+11·43	0·0	0·3	Pooree ...	Pooree	Orissa.
75	0	Nil											Gopalpore ...		
85	0·1	Nil											False Point ...		
74	0	Nil	Nil	0·35	1·97	0·94	+1·03	63·64	50·74	+12·90	0·0	0·3	Cuttack ...	Cuttack	
81	0	Nil	Nil	0·11	0·87	0·76	+0·11	61·26	52·50	+8·76	0·0	0·3	Balasore ...	Balasore	
87	0·3	Nil	Nil	0·01	0·64	0·57	+0·07	66·29	61·57	+4·72	0·0	0·1	Sangor Island ..	South-West Midnapore	South-West Bengal.
														South 24-Pergunnahs	
69	0	Nil	Nil	Nil	Nil	0·17	−0·17	50·00	50·78	−0·78	0·0	0·0	Midnapore	Midnapore	
83	0	Nil	Nil	Nil	0·07	0·27	−0·20	55·16	50 83	+4·33	0·0	0 0	Calcutta ...	24-Pergunnahs	
														Howrah	
														Hooghly	
74	0	Nil	Nil	Nil	0·25	0·30	−0·05	61·41	46·12	+15·29	0·0	0·0	Burdwan ...	Burdwan	
73	0·3	Nil	Nil	0·15	0·01	0·42	−0·41	52·02	51·89	+0·13	0·0	0·1	Bankoora ...	Bankoora	
74	0·6	Nil	Nil	Nil	0·35	0·14	+0·21	63·93	51·59	+12·34	0·0	0·0	Ranegunge ...	Beerbhoom	
														West Burdwan ...	
86	1·9	Nil	Nil	Nil	0·33	0·22	+0·11	60·55	49·88	+10·67	0·0	0·0	Berhampore ...	Moorshedabad ...	
79	1·4	Nil	Nil	Nil	0·04	0·30	−0·26	55·03	48·60	+6·43	0·0	0·0	Krishnaghur ...	Nuddea	
90	0·6	Nil	Nil	Nil	0·06	0·30	−0·24	53 53	52·52	+1·01	0·0	0·0	Jessore ...	Jessore	
														Khoolna	
92	1·1	Nil	Nil	0·06	1·37	1·55	−0·18	119·06	111·95	+7 11	0·0	0·1	Chittagong ..	Chittagong	East Bengal.
			Nil	0·09	0·42	1·60	−1·18	73·32	79·37	−6·05	0·0	0·1	Demagiri ..	Chittagong Hill Tracts	
83	0	Nil	Nil	0·09	Nil	1·21	−1·21	68·16	75·56	−7·40	0·0	0 1	Barrisal ...	Backergunge	
87	0	Nil	Nil	0·05	Nil	2·00	−2·00	97·88	105·16	−7·28	0·0	0·1	Noakholly ..	Noakholly	
87	0	Nil	Nil	Nil	Nil	0·40	−0·40	45·42	54·74	−9 32	0·0	0·0	Furreedpore ...	Furreedpore	
83	0·1	Nil	Nil	0·13	Nil	0·63	−0·63	58·19	59·70	−1·51	0·0	0·1	Dacca ...	Dacca	
85	0·7	Nil	Nil	0·02	Nil	0·58	−0·58	60·11	67·53	−7·42	0·0	0·1	Commillah ..	Tipperah	
86	1·1	Nil	Nil	0·07	0·17	0·28	−0·11	75·85	68·38	+7·17	0 0	0·1	Mymensingh ...	Mymensingh	
85	0	Nil	Nil	Nil	0·41	0·31	+0·10	78·99	56·87	+22·12	0·0	0·0	Bogra ...	Bogra	North Bengal.
88	0·1	Nil	Nil	Nil	0·57	0·25	+0·32	54·95	52·78	+2·17	0 0	0 0	Serajgunge ..	Pubna	
83	0·3	Nil	Nil	0·05	0·93	0·19	+0·74	75·86	52·81	+23·05	0·0	0·1	Rampore Beauleah	Rajshahye	
78	0	Nil	Nil	Nil	0·02	0·18	−0·16	62·14	53·58	+8·56	0·0	0·0	Maldah ...	Maldah	
91	0	Nil	Nil	0 01	Nil	0·07	−0·07	81·74	56·22	+25·52	0·0	0·1	Dinagepore ...	Dinagepore	
93	0·3	Nil	Nil	Nil	Nil	0·08	−0·08	106·61	73·17	+33·44	0·0	0·0	Rungpore ...	Rungpore	
90	0	Nil	Nil	0·02	Nil	0·04	−0·04	154·51	109·57	+44·94	0·0	0·1	Julpigoree ...	Julpigoree	
														Cooch Behar	
82	3·4	Nil	0·03	0·13	0·05	0·27	−0·22	165·63	119·84	+45·79	0 3	0·1	Darjeeling ...	Darjeeling Hill Tracts	
88	0·4	Nil	Nil	Nil	Nil	0·03	−0·03	80·67	58·02	+22·65	0·0	0·0	Purneah ..	Purneah	North Behar.
														North Bhagulpore ...	
9 1†	0	Nil	Nil	0·02	Nil	0·06	−0·06	52·57	42·73	+9·84	0 0	0·1	Mozufferpore ...	Mozufferpore	
78	0	Nil	Nil	0·01	Nil	0·03	−0·03	57·63	43·93	+13·70	0·0	0·1	Durbhunga ...	Durbhunga	
78	0	Nil	Nil	0·01	Nil	0·01	0·01	68·47	45·90	+22·57	0·0	0·1	Motihari ..	Chumparun	
91	0	Nil	Nil	0·05	Nil	0·09	−0·09	53·60	41·76	+11·84	0·0		Chupra ...	Sarun	
71	0	Nil											Dehree ...	Shahabad	South Behar.
69	0·3	Nil	Nil	0·05	Nil	0·15	−0·15	49·59	39·21	+10·38	0·0	0·1	Buxar ...		
64	1·0	Nil											Arrah ..		
64	0	Nil	Nil	Nil	Nil	0·14	−0·14	56·93	40·71	+16·22	0·0	0·0	Gya ..	Gya	
61	0	Nil	Nil	0·01	Nil	0·11	−0·11	48·10	40·52	+7·58	0·0	0·1	Bankipore ...	Patna	
73	0	Nil	Nil	Nil	Nil	0·12	−0·12	52·25	42·46	+9·79	0·0	0 0	Bhagulpore ...	South Bhagulpore ...	
														Monghyr	
74	0	Nil	Nil	Nil	0·38	0·13	+0·25	63·05	50·23	+13·42	0·0	0·0	Doomka ...	Sonthal Pergunnahs ...	Chutia Nagpur.
55	0	Nil	Nil	0·05	0·01	0·25	−0·24	49·45	49·09	+0·36	0·0	0·1	Hazaribagh ...	Hazaribagh	
53	0	Nil	Nil	0·05	Nil	0·27	−0·27	47·01	47·22	−0·21	0·0	0·1	Ranchi ...	Lohardugga	
			Nil	0·02	0·10	0·17	−0·07	41·53	46·21	−4·68	0·0	0·1		Manbhoome	
70	0	Nil	Nil	Nil	Nil	0·33	−0·33	33·94	50·47	−16·53	0·0	0·0	Jayebassa	Singbhoom	

ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
ten years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of November 1890.

Meteorological division.	District.	Station.	Rainfall.							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 15th November.	Sunday, 16th November.	Monday, 17th November.	Tuesday, 18th November.	Wednesday, 19th November.	Thursday, 20th November.	Friday, 21st November.	Number of rainy days.	Rainfall of week.				
Orissa	Pooree	Pooree	...	...	...	.....	.....	.....	.....	Nil	Nil	2·28	1·78	69·97	49·68
		Khurdah	...	.....	.....	.....	.....	.....	.....	Nil	Nil	0·23	1·27	65·16	55·37
		Banpur	.....	...	.....	.....	.....	.....	.....	Nil	Nil	1·10	2·85	61·85	49·91
		False Point	...	.....	.....	.....	.....	.....	.....	Nil	Nil	3·09	2·11	66·10	63·10
		Gor	.....	.....	.....	...	...	.....	.....	Nil	Nil	2·02	?	65·96	?
		Satpara	.....	.....	.....	.....	...	...	...	Nil	Nil	4·94	?	45·07	?
		Pipli	.....	.....	.....	.....	.....	...	...	Nil	Nil	0·29	?	75·90	?
	Cuttack	Jagatsingpore	...	.....	.....	.....	.....	...	.....	Nil	Nil	1·00	0·00	63·07	46·03
		Banki	...	.....	...	.....	.....	.....	.....	Nil	Nil	5·25	1·62	66·09	47·5
		Cuttack	...	...	.....	.....	.....	.....	.....	Nil	Nil	1·94	0·87	62·14	53·42
		Kendrapara	...	...	...	.....	.....	...	...	Nil	Nil	0·59	0·77	53·15	52·07
		Jajpore	...	.....	...	.....	...	...	.....	Nil	Nil	0·46	0·55	53·15	51·98
		Dharmsala	.....	...	.....	...	.....	.....	.....	Nil	Nil	0·10	?	53·18	?
		Salipore	.....	...	.....	.....	.....	.....	.....	Nil	Nil	0·70	?	52·15	?
	Balasore	Chandbali	.....	.....	.....	.....	....	.....	.....	Nil	Nil	0·41	1·30	52·66	52·19
		Bhuddruck	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	0·88	57·85	50·83
		Sorah	.....	.....	.....	.....	...	.....	.....	Nil	Nil	0·10	0·61	60·84	50·54
		Balasore	....	.....	.....	.....	.....	.....	...	Nil	Nil	2·25	0·74	65·13	56·88
		Jellasore	...	....	...	.....	.....	...	...	Nil	Nil	1·21	0·25	65·83	50·02
		Baripodah	.....	.....	...	.....	...	.....	.....	Nil	Nil	0·61	0·84	62·91	53·29
South-West Bengal	Midnapore	Contai	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·43	0·60	67·73	60·51
		Saugor Island	...	...	.....	.....	.....	.....	.....	Nil	Nil	1·44	0·80	69·05	66·40
		Tumlook	...	...	.....	...	.....	...	...	Nil	Nil	Nil	0·27	57·90	50·63
		Midnapore	...	.....	.....	.....	...	.....	.....	Nil	Nil	Nil	0·21	47·47	47·03
		Ghattal	.....	.....	...	.....	.....	.....	.....	Nil	Nil	Nil	0·06	44·61	53·62
		Kuirahaty	...	...	...	.....	.....	.....	.....	Nil	Nil	Nil	?	50·29	?
		Garbetta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·23	?
	24-Pergunnahs	Diamond Harbour	.....	.....	.....	.....	.....	...	.....	Nil	Nil	0·04	0·30	62·13	57·44
		Canning Town	...	.....	.....	.....	...	.....	.....	Nil	Nil	Nil	?	66·09	?
		Alipore Jail	....	.....	...	...	.	.....	...	Nil	Nil	0·05	0·27	61·96	54·55
		Barrackpore	.....	.....	.....	.....	.....	.....	...	Nil	Nil	Nil	0·44	50·91	48·53
		Dum-Dum	...	...	...	.....	.....	.....	...	Nil	Nil	0·59	0·19	56·34	50·78
		Baraset	.....	....	...	...	....	...	...	Nil	Nil	Nil	0·26	54·84	48·98
		Busseerhat	.....	.....	.....	...	.....	.....	.....	Nil	Nil	Nil	0·30	58·67	54·01
	Howrah	Howrah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	51·34	50·07
		Mohesreka (*Odoheersah*)	...	....	...	...	..	..	...	Nil	Nil	Nil	0·32	59·57	51·03
	Hooghly	Serampore	.....	....	..	.....	...	....	...	Nil	Nil	0·03	0·17	54·30	49·38
		Hooghly	.....	..	..	...	.....	...	...	Nil	Nil	Nil	0·19	52·05	47·36
		Jehanabad	.....	...	.....	...	...	...	...	Nil	Nil	Nil	0·21	51·57	54·42
	Burdwan	Culna	.....	.....	...	...	.....	.....	...	Nil	Nil	0·20	0·34	54·31	48·60
		Burdwan	....	...	.....	..	.....	...	...	Nil	Nil	0·76	0·28	65·53	47·47
		Cutwa	...	.....	...	.	..	....	...	Nil	Nil	Nil	0·28	64·33	47·19
		Raneegunge	...	....	...	...	...	...	.....	Nil	Nil	0·10	0·13	60·54	48·60
		Mankar	.....	.....	.....	...	....	.....	.....	Nil	Nil	0·41	?	48·21	?
	Bankoora	Bankoora	.....	.....	...	...	...	.....	.....	Nil	Nil	Nil	0·17	57·76	50·83
		Bishenpore	..	..	.....	.....	...	...	.....	Nil	Nil	Nil	0·32	59·95	51·05
		Mahara	...	.....	...	.....	..	...	...	Nil	Nil	0·05	0·36	59·28	48·11
		Khatra	...	...	.....	...	.....	.....	....	Nil	Nil	Nil	0·86	40·08	56·31
		Indus	.....	...	...	...	...	...	..	Nil	Nil	Nil	?	59·97	?
		Kutalpore	.....	...	...	...	...	...	...	Nil	Nil	Nil	?	66·94	?
		Anda	...	..	....	....	..	...	.....	Nil	Nil	Nil	?	65·11	?
		Gangajalghati	..	.....	...	...	..	....	...	Nil	Nil	Nil	?	63·75	?
		Raipore	.....	...	.....	...	.....	...	...	Nil	Nil	Nil	?	53·20	?
		Sonamukhi	...	...	....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·74	?
	Beerbhoom	Bh. Soory	...	.	...	.....	...	...	...	Nil	Nil	0·03	0·11	62·28	53·10
		Hetampore	...	...	.	.....	...	...	...	Nil	Nil	0·76	0·13	60·31	53·65
		Rampore Haut	...	.....	...	.....	.....	.....	.....	Nil	Nil	0·20	0·16	72·56	50·74
		Bolpore	.....	...	...	...	.....	...	.....	Nil	Nil	1·19	?	57·42	?
		Murarai	...	...	...	.....	.....	...	...	Nil	Nil	Nil	?	56·46	?
	Nuddea	Ranaghat	.....	...	.....	...	...	.....	.....	Nil	Nil	Nil	0·36	53·40	46·29
		Kishnaghur	...	.....	.....	.....	.....	...	.....	Nil	Nil	0·20	0·39	61·66	45·34
		Chooadanga	...	...	.	.....	.....	.....	...	Nil	Nil	Nil	0·43	47·08	50 52
		Meherpore	...	...	...	.....	...	...	...	Nil	Nil	Nil	0·13	58·86	46·99
		koushtea	.....	...	...	.....	...	..	...	Nil	Nil	Nil	0·22	52·09	53·80
	Khoolna	Satkhira	.....	.....	...	.....	...	.....	.....	Nil	Nil	0·48	0·33	57·61	55·07
		Bagerhat	.....	.....	.....	.....	.....	.....	...	Nil	Nil	Nil	0·47	62·51	60·37
		Khoolna	...	...	.....	.....	..	...	.....	Nil	Nil	Nil	0 36	52·88	53·53
		Nakipur	.....	...	.....	...	.....	.....	.....	Nil	Nil	0·99	?	70·02	?
		Rampal	.....	...	.....	...	.....	.....	...	Nil	Nil	Nil	?	65·78	?
	Jessore	Narail	...	...	.....	.....	...	.....	.....	Nil	Nil	Nil	0·37	51·45	45 17
		Jessore	...	...	.....	.....	.....	...	.....	Nil	Nil	Nil	0·24	50·49	53·49
		Jhenidah	.....	.....	...	.....	...	.....	...	Nil	Nil	Nil	0·23	54·16	52·73
		Magoorah	...	...	....	.....	.....	.....	....	Nil	Nil	Nil	0·18	43·44	48 55
		Bongong	...	.....	.....	...	.....	.....	....	Nil	Nil	Nil	0·26	46·66	50·87
	Moorshedabad	Kandi	...	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	0·32	64·89	49·42
		Berhampore	.....	..	.....	.....	...	.....	.....	Nil	Nil	0·05	0 24	59·27	50·59
		Lalbagh	...	.....	.....	.....	...	...	...	Nil	Nil	Nil	0 31	63 07	49·45
		Azimgunge	...	.....	.....	.....	...	...	...	Nil	Nil	Nil	0·19	58·27	50·48
		Jungipore	...	.....	.....	...	...	...	...	Nil	Nil	0·50	0 08	51·83	48·49
		Lalgola	...	.....	.....	...	...	...	...	Nil	Nil	0·65	0·20	65·35	50·66
		Jiagunge	.....	.....	...	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
		Akhriganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·99	?
		Patkabari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	?	?
East Bengal	Chittagong	Cox's Bazar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·37	1·98	129·42	131·90
		Chittagong	.....	.....	.....	.....	.....	...	.....	Nil	Nil	1·37	1·11	108·99	92·14
		Kutubdia	.....	.....	.....	...	.....	.....	.....	Nil	Nil	2·25	?	113·85	?
		Satkanya	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·15	?	81·41	?
	Chittagong Hill Tracts.	Rangmati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	1·52	68·92	82·07
		Bumu	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	1·66	77·71	76·85
	Backergunge	Patuakhally	.....	.....	.....	...	.....	.....	.....	Nil	Nil	Nil	1·36	79·01	86·05
		Perozapore	...	.....	.....	.....	.....	...	.....	Nil	Nil	Nil	1·02	62·91	68·88
		Burrisal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·04	65·76	64·44
		Bhola	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·43	64·99	80·89

atement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of November 1890 —concld.

Meteorological Division.	District.	Station.	Rainfall							Total		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 15th November.	Sunday, 16th November.	Monday, 17th November.	Tuesday, 18th November.	Wednesday, 19th November.	Thursday, 20th November.	Friday, 21st November.	Number of rainy days.	Rainfall of week.				
BENGAL proper.		*Gournadee*	...	.....	.....	...	.....	.....	...	Nil	Nil	Nil	?	42·66	?
		Bauphal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73·26	?
	Noakholly ...	Noakholly	.....	.....	.....	.....	.....	.....	..	Nil	Nil	Nil	1·53	92·34	106·26
		Feeny	..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·46	103·10	103·93
		Hariskpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·90	?	169·51	?
		Ramgunj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·28	?
	Furreedpore	Madaripore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	41·91	34·92
		Furreedpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	43·45	37·15
		Goalundo	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	44·90	52·35
	Dacca ..	Munshigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·61	57·78	69·01
		Dacca	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	54·58	57·92
		Naraingunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1	1·12	60·71	61·08
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	59·71	40·34
		Joydebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·26	?
	Hill Tipperah.	Agartola	.....										0·69		60·48
	Tipperah ...	Comilla ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·71	67·21	74·69
		Chandpore	.....	..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·89	56·78	73·21
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	54·64	60·83
		Ramchandra pore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·11	?
		Nasirnagar ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·81	?
		Daudkandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	30·14	?
		Kasba	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·71	?
		Laksham	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·55	?
	Mymensingh..	Kishoreegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·37	68·87	69·13
		Atia (*Tangail*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·81	0·21	56·62	54·83
		Wymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·28	78·05	73·36
		Jamalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	79·16	64·47
		Netrekona	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	86·54	80·36
		Subornakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·42	?	58·25	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·67	?
		ShereporeTown	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·41	?
		Dewanganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·90	?
NORTH BENGAL.	Pubna ...	Pubna ..	.....	.....	.....	.....	.....	..	.....	Nil	Nil	Nil	0·14	46·08	53·34
		Serajgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·14	0·35	65·81	52·16
	Bogra ...	Sherepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·59	0·54	77·86	57·75
		Nowkhilla ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·37	0·47	66·79	55·72
		Bogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·68	0·22	79·02	60·38
		Panchbibi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	91·46	55·27
	Rajshahye ...	Beauleah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·95	0·15	72·29	52·40
		Nattore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·55	0·26	88·81	54·19
		Naogaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·30	0·17	66·15	51·99
		Lalpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·38	?
		Manda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·04	?
	Maldah ..	Maldah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·16	64·65	50·04
		Chanchal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	59·62	58·11
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	84·40	?
		Sibgunj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·12	?	62·66	?
	Dinagepore .	Mohandebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	67·91	58·24
		Churamon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	80·28	52·02
		Raigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	92·75	57·54
		Dinagepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	86·86	63·50
		Balooghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	81·01	52·02
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	107·04	?
	Rungpore ..	Bhawanigunj (*Gyabanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	123·01	67·04
		Rungpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	96·56	74·06
		Kurigram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	95·59	72·06
		Bagdogra (*Nilphamari*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	141·28	83·87
		Dilpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	97·52	?
	Julpigoree ..	Julpigoree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	156·26	116·71
		Alipore Dooa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	187·47	?
		Fallacotta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	146·0	?
		Dehigunj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	115·0	?
		Bhagalpore (Nagrakatta)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	181·61	?
	Cooch Behar	Dinhatta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	128·95	94·46
		Cooch Behar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	165·37	117·93
		Mickilgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	146·5	104·86
		Matabhanga..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	171·61	141·89
	Darjeeling Hill.	Buxa	0·13	.....	.....	.....	.....	.....	.....	1	0·13	0·22	0·35	240·86	191·15
		Silliguri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	178·31	102·50
		Darjeeling	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·01	0·12	150·6	107·22
		Kalimpong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	123·00	77·17
		Kurseong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	102·78	?
BEHAR PROPER.	Purneah ...	Kissengunge..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	105·38	69·64
		Arrareah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	85·78	63·14
		Purneah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	83·56	60·97
		Gondwara ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	109·45	?
		Matiari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64·98	?
		Kaliaganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	178·5	?
	North Bhagulpor	Maddapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	61·61	40·00
		Sooipoor ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	65·24	47·59
		Protabganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·30	?
	Durbhunga ..	Rajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	51·70	42·37
		Durbhunga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	58·56	45·11
		Madhubani	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	62·61	44·22
		Rahera ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·58	?
		Koenare	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·42	?
	Mozufferpore	Sitamarhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	52·96	42·88
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	56·13	44·67
		Hanpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	48·60	42·22
		Pare ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·81	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·70	?
		Sirahar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·18	?
		Pupri ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·19	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of November 1890—con

Meteorological Division.	District.	Station.	Rainfall. Saturday, 15th November.	Sunday, 16th November.	Monday, 17th November.	Tuesday, 18th November.	Wednesday, 19th November.	Thursday, 20th November.	Friday, 21st November.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Aver rain from May dat
North Behar —*concluded.*	Chumparun...	Motihari ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	72·06	4
		Bettiah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	64·89	4
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
		Burhurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·36	
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	52·67	4
		Sewan .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	59·84	4
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	48·27	3
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	52·47	4
		Dehree ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	45·14	3
		Bhabooah ...	.....	.....	.....	.....	.....	...	... ..	Nil	Nil	Nil	0·39	41·11	4
		Sasseram ...	.....	.....	.....	.....	.....	.. ..	.....	Nil	Nil	Nil	0·12	44·19	3
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	66·96	4
		Mohaniah ..	.....	.....	... ..	.....	.....	... ..	.....	Nil	Nil	Nil	?	36·07	
	Gya ..	Aurungabad...	.....	.....	.....	.....	. ..	.....	.....	Nil	Nil	Nil	0·12	59·49	4
		Gya ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	60·04	4
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	54·84	3
		Jehanabad ...	.....	... ..	.....	... ..	.....	.....	.....	Nil	Nil	Nil	0·14	53·35	4
		Arwal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·43	
		Daudnagar ..	... ..	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	29·85	
		Sherrghati ...	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	36·87	
		Rajauli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·60	
		PakriBarawan	.....	.....	.....	.... .	.....	.....	.....	Nil	Nil	Nil	?	54·24	
	Patna ...	Patna ...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0·07	50·02	4
		Dinapore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	52·13	4
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	46·95	4
		Barrh ...	.....	.....	.....	.....	. ....	.....	.....	Nil	Nil	Nil	0·16	43·25	3
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	.	50·24	
	Monghyr ...	Begoosorai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	44·20	3
		Monghyr	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	51·84	4
		Jamui ...	.....	.....	... ..	.....	.....	.....	.....	Nil	Nil	Nil	0·03	60·22	4
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·44	
		Sheikpura ...	... .	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·76	
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	59·77	4
		Banka .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	42·11	4
		Kelgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·00	
		Bongaon ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	?		
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0·11	56·86	
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	50·75	
		Pakour ...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0·05	74·16	
		Nya Doomka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	0·18	74·11	
		Deoghur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	49·43	
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·15	0·30	76·43	
		Mohasama ...	.....	.....	.....	... ..	.....	....	.....	Nil	Nil	Nil	?	49·81	
		Nanehat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·30	?	32·28	
Chutta Nagpur.	Hazaribagh ...	Pachamba .. (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	55·35	
		Hazaribagh ...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	0·02	0·19	49·97	
		Seintagurah	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·23	38·89	
		Mahudi Hills	.....	.....	.....	.....	.....	.. ...	.....	Nil	Nil	Nil	0·38	49·02	
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	56·80	
		Barhi ...	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	
		Chatra ...	.....	.....	.....	.. ..	.....	... .	.....	Nil	Nil	Nil	?	47·08	
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·34	
		Ramghar ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	
	Lohardugga...	Lohardugga...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0·15	53·19	
		Ranchi ...	.. .	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	43·57	
		Palamow ...	.....	.....	.....	...	.....	.....	.....	Nil	Nil	Nil	0·33	44·27	
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·35	?	43·85	
		Ratumat ...	.....	.....	.....	.. ...	.....	.....	.... .	Nil	Nil	Nil	?	43·62	
		Hasseinabad	.. ...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75	
		Garwah ...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	?	38·20	
	Singbhoom .	Chyebassa ...	.... .	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0·23	38·94	
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	24·34	
		Ghatsilla ...	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	51·46	
		Baharagura	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·93	
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0·18	44·22	
		Gobindpore ..	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	0·21	0·15	38·84	
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	?	62·26	
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·15	
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64·71	
		Chas ...	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·18	

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the r are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 25th November* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 21ST OF NOVEMBER 1890.

FINE weather has continued throughout the week, both in Bengal and over the Bay, with high pressure, and temperature generally below the normal. At the commencement of the week the pressure distribution was about normal with slight gradients from west to east, the usual faint wind circulation and cloudless skies. Though a steady rise of pressure went on from the 15th till the 18th, the general conditions underwent no change, except that the defect in temperature began to disappear in the eastern districts. On the 19th pressure fell very slowly in Behar, while the rise continued elsewhere, and from being westerly, wind directions became first irregular, and afterwards east over the whole of the northern half of the province. With this change temperature rose slowly on the 19th in all districts, and on the 20th at all except the stations in East Bengal and part of North Bengal, where excess was almost general, and ranged up to 3·7° at Rampore Beauleah. North-easterly winds were still blowing on Friday, the last day of the week, in North Bengal, North Behar, and parts of South-West and East Bengal, and temperature was generally rising, but otherwise ordinary weather prevailed. In the south of the Bay, however, conditions were beginning to be unsettled; pressure from being very high was falling, and indraught to a low-pressure area in the extreme south was more distinct.

Pressure, as stated above, has been very high throughout the week, especially in the south of the Bay, and the distribution more uniform than usual. Means for the week are all considerably above the normal, excess varying from a twentieth of an inch in Behar and North Bengal to a tenth in the south of Orissa.

Temperature, as compared with the normal, was lowest in the early part of the week, the lowest minimum readings occurring between the 16th and 18th at all except a few stations in East and North Bengal. The highest maximum temperature, however, was generally recorded on the 15th, the first day of the week. In the table giving temperatures at representative stations it will be seen that mean defect during the day has been less than at night at all except Purneah and Darjeeling, where the mean maximum temperature is below and the mean minimum above the normal. For the large divisions means are below the normal by ·5° or less, except in South-West Bengal and South Behar, where defect is 1·1° and 1·4° respectively, and in North Bengal, where there is excess of ·8°.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 21st of November 1890.

	Normal mean maximum temperature for the week ending 21st November.	Actual mean maximum temperature for the week ending 21st November 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 21st November.	Actual mean minimum temperature for the week ending 21st November 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 21st November.	Actual mean daily temperature for the week ending 21st November 1890.	Variation of actual mean from the normal.
Cuttack	85·0	84·4	—0·6	64·0	61·8	—2·2	74·5	73·1	—1·4
Calcutta	81·1	79·8	—1·3	63·2	59·9	—3·3	72·1	69·9	—2·2
Dacca	83·7	83·5	—0·2	64·0	63·6	—0·4	73·9	73·6	—0·3
Burdwan	82·4	82·2	—0·2	62·3	61·3	—1·0	72·4	71·8	—0·6
Patna	81·2	79·9	—1·3	58·1	55·9	—2·2	69·7	67·9	—1·8
Gya	82·4	81·8	—0·6	57·7	53·7	—4·0	70·1	67·8	—2·3
Purneah	81·7	79·9	—1·8	57·2	58·3	+1·1	69·5	69·1	—0·4
Hazaribagh	76·6	78·1	+1·5	56·6	54·0	—2·6	66·6	66·1	—0·5
Darjeeling	54·2	53·3	—0·9	40·7	41·0	+0·3	47·5	47·2	—0·3

Rainfall.—One shower of ·13 inch fell at Buxa on the 15th.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 21st of November 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	86·4	56·5	82·5	62·2	72·3	−0·5	Nil	0·28	−0·28	0·0	0·3	−0·3	1·50	1·16	63·27	
South-West Bengal ...	86·3	54·1	81·8	60·2	71·0	−1·1	Nil	0·01	−0·01	0·0	0·1	−0·1	0·17	0·29	56·83	51·29
East Bengal	84·7	59·7	81·9	62·4	72·2	−0·6	Nil	0·07	−0·07	0·0	0·1	−0·1	0·17	0·86	71·42	73·45
North Bengal	83 7	56·5	81·1	61·0	71·1	+0·8	Nil	0·01	−0·01	0·0	0·1	−0·1	0·22	0·14	95·09	68·81
North Behar	82·3	51·9	80·3	58·0	69·2	−0·3	Nil	0·02	−0·02	0·0	0·1	−0·1	Nil	0·04	64·38	47·94
South Behar	83·9	51·1	80·8	54·9	67·9	−1·4	Nil	0·01	−0·01	0·0	0·1	−0·1	0·09	0·13	54·66	43·10
Chutia Nagpur	79·3*	49·5*	77·9*	52 6*	65·3*	−0·5*	Nil	0·04	−0·04	0·0	0·1	−0·1	0·02	0·24	40·00	48·18

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 25th November 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 16th to 22nd November 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
November...	16th ...	30·070	69·9	80·9	22·0	58·9	75·6	62·6	·395	52·4	45	Nil
...	17th ...	077	69·7	80·4	21·5	58·9	75·6	65·6	·493	58·8	56	...
,, ...	18th ...	·087	72 0	80·9	17·8	63·1	76·6	69·6	·631	65·6	69	...
,, ...	19th ...	·110	71·8	81·4	19·3	62·1	76·6	67·4	·549	61·6	60	...
,, ...	20th ...	088	71·2	80·4	18·5	61·9	76·6	67·1	·538	61·0	59	...
,, ...	21st ...	·117	71·9	80·9	18·0	62·9	75·1	67·4	·569	62·6	65	...
,, ...	22nd ...	·134	71·3	80·7	18·8	61·9	76·6	67·6	·557	62·0	61	...

The mean 10 A.M. pressure of the seven days	Inches.	30·098
The mean temperature of the seven days	°	71·1
The extreme variation of temperature		22·5
The maximum temperature		81·4
The mean 10 A.M. relative humidity of the seven days	%	59
The total fall of rain from 16th to 22nd November 1890	Inches.	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 24th November 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 16th to 22nd November 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Nov.	16th	134·8	9·8	30·000	68·1	79·2	21·8	57·4	62·3	0·485	58·1	73	WNW and calm ..	22	Nil	Clear, ≏.
,,	17th	132·5	9·4	·007	68·9	79 5	20 5	59·0	63·7	·525	60 3	75	N by W and calm ..	31	,,	Chiefly clear, ≏.
,,	18th	138·5	8·9	·024	70 9	79·7	17·3	62·4	66·1	·578	63·0	77	N and calm ...	17	,,	Chiefly clear, ≏.
,,	19th	138·3	9·1	·037	70 5	79·7	18·5	61·2	65·8	·574	62·8	78	NE and calm ...	12	,,	Chiefly clear, ≏, —.
,,	20th	136·6	8·6	·035	69 5	79 3	18 9	60 4	65·4	·573	62·8	81	NNE and calm ...	12	,,	Chiefly clear, ≏, ≡.
,,	21st	135·3	9·0	·048	70·2	80 3	20·2	60·1	65·7	·573	62·8	79	NNW, calm and variable.	19	,,	Chiefly clear, ≏, —.
,,	22nd	138·8	9·4	·064	70 3	79·4	18·1	61·3	65 4	·564	62·4	78	NNE and calm ...	28	,,	Chiefly clear, ≏, ≡.

	Inches.
The mean pressure of the seven days	30·031
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	29·992
	Hours.
The total number of hours of bright sunshine	64·2
The maximum possible number of hours of sunshine	76·7
	°
The mean temperature of the seven days	69 8
The average temperature of the corresponding period for 24 years, S.-G.'s Office	73·8
The extreme variation of temperature	22·9
The maximum temperature	80 3
	Miles.
The highest velocity of the wind in one hour	6
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	77
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	70
	Inches.
The total fall of rain from 16th to 22nd November 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·01
The total fall from 1st January to 22nd November 1890	61·25
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	65·14

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the New Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

≏ dew, ≡ fog.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 24th November 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 1st November 1890.

Births.

The births registered during the week ending with Saturday, the 1st November 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 29·1 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 4·2 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of births per 1,000 of the population per annum	27·5	23·4	23·9	23·0	26·5	24·9	29·1

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.	Towns.	Weeks ending— 11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.
Burdwan	13·7	33·6	13·7	33·6	Narainganj	49·7	24·8	70·4	66·2
Midnapore	18·6	7·7	7·7	20·1	Chittagong	9·4	9·4	...	11·7
Hughli and Chinsurah	41·0	49·2	27·9	42·7	Comillah	27·0	27·0	46·2	19·3
Serampore	49·1	23·6	43·2	53·0	Patna City	12·3	14·3	12·3	11·4
Utterpara	37·7	47·2	...	47·2	Gya	30·7	39·6	12·3	16·4
Howrah	29·2	24·6	25·2	31·5	Arrah	45·5	20·3	21·5	21·5
Bali	31·6	28·1	24·6	10·5	Mozufferpore	20·2	21·0	24·3	37·7
Krishnagar	9·5	18·9	15·1	22·7	Durbhanga	43·3	37·0	36·2	59·0
Ranaghat	12·0	18·0	18·0	12·0	Chupra	48·3	40·3	11·1	33·2
Santipore	17·5	8·8	...	19·3	Bhagulpore	42·5	16·3	...	46·2
Jessore	6·1	6·1	12·2	...	Monghyr	58·8	37·1	46·1	51·5
Rampore Beauleah	39·4	31·5	36·8	36·8	Purneah	20·8	6·9	13·9	3·4
Darjiling	51·9	51·9	14·8	...	Poori	13·9	16·8	16·8	21·0
Dacca	18·8	24·0	13·0	27·9	Total ...	29·5	25·0	19·4	29·1

It will be seen that last week the highest birth-rate was returned from Narainganj (66·2) and the lowest from Purneah (3·4). No births were registered during the week in Jessore and Darjiling towns.

Deaths.

The deaths registered during the week under review correspond to an annual rate of 23·7 per 1,000 of the population. The rate of the week is 7·4 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of deaths per 1,000 of the population per annum	35·9	30·4	23·7	28·1	28·5	31·1	23·7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.	Towns.	Weeks ending— 11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.
Burdwan	24·4	22·9	22·9	35·1	Narainganj	37·2	24·8	41·4	45·5
Midnapore	27·9	12·4	9·3	21·7	Chittagong	16·4	14·1	...	25·8
Hughli and Chinsurah	37·9	29·5	14·8	31·2	Comillah	15·4	11·6	23·1	11·6
Serampore	45·2	47·1	60·8	32·4	Patna City	20·4	18·9	15·9	18·8
Utterpara	28·8	37·7	...	56·6	Gya	54·0	60·1	34·8	27·3
Howrah	18·3	17·8	19·5	18·9	Arrah	23·9	12·0	8·4	10·8
Bali	28·1	24·6	28·1	14·0	Mozufferpore	24·3	38·9	14·6	14·6
Krishnagar	5·7	7·6	3·8	11·4	Durbhanga	26·7	20·5	29·9	30·0
Ranaghat	12·0	24·0	24·0	24·0	Chupra	27·2	20·1	23·1	17·1
Santipore	3·5	3·5	...	10·5	Bhagulpore	14·5	17·2	...	18·1
Jessore	30·6	...	30·6	40·0	Monghyr	29·8	21·7	24·4	37·1
Rampore Beauleah	44·7	42·0	49·2	39·4	Purneah	17·3	6·9	20·8	27·7
Darjiling	44·5	51·9	44·5	66·7	Poori	42·0	25·2	16·9	35·7
Dacca	18·2	18·2	25·9	20·8	Total ...	25·3	22·8	20·4	23·7

It will be seen that last week the highest mortality occurred in the town of Serampore (82·4) and the lowest in Santipore (10·5).

Measured by last week's mortality, the highest annual death-rates from cholera, fever bowel-complaints and other causes occurred in the following towns:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Patna City	... 5·5	Jessore	... 42·8	Darjiling	... 29·6	Utterpara	... 37·7
Monghyr	... 5·4	Rampore Beauleah	36·8	Serampore	... 15·7	Serampore	... 33·4
		Darjiling	... 29·6			Naraingunj	... 20·4
		Serampore	... 29·4			Poori	... 16·8
		Ranaghat	... 24 0			Gya	... 13·7
		Purneah	... 20·8			Dacca	... 11·0
						Midnapore	... 10·8

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1·8 from cholera, against 1·9 per 1,000 in the preceding week; 10·5 from fever, against 10·4; 3·3 from bowel-complaints, against 2·8; ·2 from injury, against ·4; and 7·9 from other causes, against 4·8 in the preceding week. No deaths were registered from small-pox during the week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	22·4	Christians	... 7·5	Under 1 year	... 200 8
Females	25·2	Hindus	... 24·0	1 and under 5 years	... 35·8
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	89	Mahomedans	... 23·7	5 „ 10 „	... 11·8
				10 „ 15 „	... 7·5
				15 „ 20 „	... 15·4
				20 „ 30 „	... 11·8
				30 „ 40 „	... 16·9
				40 „ 50 „	... 15·8
				50 „ 60 „	... 28·2
				60 years and upwards	... 58·5

Detailed information regarding the vital statistics of the twenty-seven principal town, dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 22nd November 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 1st November 1890.

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.															Sex.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.											
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	9	13	22	13·7	19·8	33·6	69	..	...	13	4	...	6	23	..	...	19·9	6·1	...	9·2	35·1	22·9	13	10	37·4	32·5	115
Midnapore ...	Midnapore ..	16,927	16,633	33,560	8	5	13	12·4	7·7	20·1	160	...	...	4	3	...	7	14	...	...	6·2	4·6	..	10·8	21·7	9·3	9	5	27·6	15·6	177
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	16	10	26	24·3	16·4	42·7	160	.	...	10	5	...	4	19	..	...	16·4	8·2	..	6·6	31·2	14·8	8	11	26·2	36·1	72
Serampore ...	Serampore ...	13,559	12,937	26,496	13	14	27	25·5	27·5	53·0	92	2	..	15	8	...	17	42	3·9	...	29·4	15·7	...	33·4	82·4	60·8	23	19	83·2	76·4	115
	Utterpara	3,046	2,464	5,510	1	4	5	9·4	37·7	47·2	25	...	...	2	...	...	4	6	...	...	18·9	...	...	37·7	56·6	...	4	2	68·3	42·2	161
Howrah ...	Howrah	53,153	37,660	90,813	30	25	55	17·2	14·3	31·5	120	...	...	11	9	...	13	33	...	...	6·3	5·2	...	7·4	18·9	19·5	18	15	17·6	20·7	85
	Bali	7,836	6,979	14,815	1	2	3	3·5	7·0	10·5	50	...	...	2	1	...	1	4	..	...	7·0	3·5	...	3·5	14·0	28·1	1	3	6·6	22·4	29
Nuddea ...	Krishnagar ..	13,263	14,214	27,477	7	5	12	13·2	9·5	22·7	140	...	...	4	...	..	2	6	.	.	7·6	...	..	3·8	11·4	3·8	2	4	7·8	14·6	53
	Ranaghat	4,028	4,655	8,683	1	1	2	6·0	6·0	12·0	100	...	..	4	...	...	...	4	.	...	24·0	...	...		24·0	24·0	1	3	12·9	33·5	39
	Santipore	13,708	15,979	29,687	6	5	11	10·5	8·2	19·3	120	.	.	3	...	..	3	6	...	...	5·2	..	...	5·2	10·5	...	3	3	11·4	9·8	116
Jessore ...	Jessore	4,830	3,665	8,495	...	...	...	...	...	.	...	...	...	7	1	...	..	8	...	.	42·5	6·1	...	...	49·0	30·6	1	7	10·8	99·3	11
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	6	8	14	15·8	21·0	36·8	75	..	...	14	...	..	1	15	...	...	36·8	..	...	2·6	39·4	49·9	5	10	24·2	57·6	42
Darjiling ...	Darjiling	4,579	2,439	7,018	...	..	...	...	...	...	...	..	..	4	4	...	1	9	...	...	29·6	29·6	...	7·4	66·7	44·5	4	5	45·4	106·6	42
Dacca ...	Dacca	42,782	37,379	80,161	23	20	43	14·9	13·0	27·9	115	...	...	11	4	...	17	32	..	...	7·1	2·6	...	11·0	20·8	25·9	17	15	20·6	20·9	98
	Naraingunj ...	7,605	4,956	12,561	10	6	16	41·4	24·8	66·2	168	...	...	3	3	..	5	11	.	...	12·4	12·4	...	20·7	45·5	41·4	6	5	41·0	52·5	78
Chittagong ...	Chittagong ..	13,340	8,790	22,130	3	2	5	7·0	4·7	11·7	150	...	..	8	1	...	2	11	.	...	18·8	2·3	...	4·7	25·8	..	3	3	31·2	17·7	176
Tipperah ...	Comillah	8,153	5,353	13,506	3	2	5	11·6	7·7	19·3	150	...	..	2	...	..	1	3	...	...	7·7	...	.	3·9	11·6	23·1	2	1	12·8	9·7	133
Patna	Patna City ...	78,762	81,475	160,237	17	18	35	5·5	5·8	11·4	94	17	...	14	1	...	9	41	5·5	...	4·5	·3	.	2·9	13·3	15·9	20	21	13·2	13·4	98
Gya	Gya	38,290	37,831	76,121	11	13	24	7·5	8·9	16·4	84	2	...	17	...	1	20	40	1·3	.	11·6	...	·7	13·7	27·3	34·8	19	21	25·8	28·9	89
Shahabad ...	Arrah	20,960	22,505	43,465	11	7	18	13·1	8·4	21·5	157	...	...	6	1	1	1	9	...	...	7·2	1·2	1·2	1·2	10·8	8·4	4	5	9·9	11·6	85
Mozufferpore ...	Mozufferpore ...	23,084	19,658	42,742	17	14	31	20·7	17·0	37·7	121	2	...	3	2	...	5	12	2·4	...	3·6	2·4	...	6·1	14·6	14·6	6	6	13·5	13·9	85
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	46	29	75	36·2	22·8	59·0	158	2	...	16	6	...	9	33	1·6	...	12·6	4·7	...	7·1	26·0	23·9	12	21	18·5	33·8	55
Saran	Chupra	25,116	26,554	51,670	20	13	33	20·1	13·1	33·2	153	2	...	7	1	1	6	17	2·0	..	7·0	1·0	1·0	6·0	17·1	23·1	7	10	14·5	19·6	74
Bhagulpore ...	Bhagulpore ...	29,649	27,813	57,453	26	25	51	23·5	22·6	46·2	104	3	...	4	4	1	8	20	2·7	...	3·6	3·6	·9	7·2	18·1	...	11	9	19·3	16·8	115
Monghyr ...	Monghyr	28,154	29,366	57,520	31	26	57	28·0	23·5	51·5	119	6	...	19	5	...	11	41	5·4	...	17·2	4·5	...	9·9	37·1	24·4	23	18	42·5	31·9	133
Purneah ...	Purneah	8,463	6,553	15,016	...	1	1	...	3·4	3·4	No male birth.	...	...	6	1	...	1	8	...	...	20·3	3·4	...	3·4	27·7	20·8	3	5	18·4	39·7	46
Poori	Poori	13,247	11,537	24,784	7	3	10	14·7	6·3	21·0	233	...	...	5	3	1	8	17	...	...	10·5	6·3	2·1	16·8	35·7	18·9	7	10	27·5	45·1	61
	Total ...	550,986	510,588	1,061,574	323	271	594	15·8	13·3	29·1	119	36	...	214	67	5	162	484	1·8	...	10·5	3·3	·2	7·9	23·7	20·4	237	247	22·4	25·2	89

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					MORTALITY ACCORDING TO—																	
		Class.										Age.																	
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.									RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards
Burdwan ...	Burdwan	...	18	5	..	...	..	29·5	25·3	.	..	2	5	...	2	...	2	1	4	3	4	157·6	115·2	...	41·3	...	13·1	7·5	47·1	63·5	140·4
Midnapore ...	Midnapore	...	12	2	..	..	...	24·1	14·4	.	..	3	...	...	...	...	1	2	4	1	3	210·0	...	..	..	...	7·1	18·8	55·6	25·2	85·2
Hughli ...	Hughli and Chinsurah	...	17	2	...	..	.	35·0	10·0	...	...	2	4	2	1	1	1	1	1	1	5	12·5	93·7	36·0	21·0	20·7	8·4	9·1	13·5	20·0	135·4
Serampore ...	Serampore	...	33	7	..	..	...	72·1	38·1	...	.	10	3	2	...	1	4	7	3	5	7	73·4	86·4	41·4	...	23·8	38·6	73·2	46·2	135·8	261·7
	Utterpara ..	...	6	...	...	...	...	38·6			..	2	...	...	1	...	...	1	...	2	..	64·0	..	...	168·6	...	...	49·0	...	232·6	...
Howrah ...	Howrah	...	27	6	...	..	.	20·6	15·2		..	8	5	...	...	1	3	6	3	1	6	201·6	46·9	...	...	7·1	6·9	16·2	13·3	9·5	83·2
	Bali	...	3	1	.	..	.	11·6	39·7		..	.	2	...	...	...	..	...	..	...	2	...	104·1	...	...	...	...	..	..	...	...	142·1
Nuddea ...	Krishnagar ...	...	5	1	..	..	...	14·0	6·3	..	.	3	1	.	...	...	...	1	...	..	1	314·3	21·1	...	...	...	...	12·1	...	...	36·1
	Ranaghat ...	...	3	1	...	..	...	21·3	33·1			..	2	..		...	...	1	...	...	1	...	13·8	...	...	...	...	41·7	...	...	91·4
	Santipore ...	..	3	1		.	..	12·6	5·8	.	.	2	..	.	1	1	1	...	..	.	1	..	123·1	..	13·3	17·9	23·4	...	...	...	22·6	...
Jessore ...	Jessore ...	...	4	4	..	..	..	4·1	5·4		..	1	2	1	..	1	1	1	...	...	1	2·8·0	21·5	6·6	..	7·0	25·8	34·0	...	...	113·5
Rajshahye ...	Rampore Beauleah	...	4	11	..	..		21·0	58·6	..	...	4	2	1	...	...	...	3	1	...	4	212·5	73·5	27·0	..	.	...	1·0	21·2	...	216·0
Darjiling ...	Darjiling	...	8	1	...	...	...	[illegible]	8·0	..	..	1	3	...	...	...	...	2	2	1	...	429·8	242·6	...	...	...	...	7·6	150·3	213·1	...
Dacca	Dacca	...	22	10	.	...	..	28·1	13·2	...		6	2	.	2	4	2	7	2	5	2	134·4	14·1	...	13·1	28·5	6·8	31·2	12·4	54·9	18·7
	Naraingunj ..	...	6	3	...	...	..	46·3	42·2	...	..	5	...	...	..	...	1	...	3	1	1	261·9	...	..	..	...	..	13·5	..	112·0	66·5	79·8
Chittagong ..	Chittagong ...	1	...	10	...	..	65·3	...	31	...	...	...	...	...	...	1	5	3	...	1	1	...	...	..	..	21·5	50·2	46·8	...	47·9	65·3
Tipperah ...	Comillah	...	1	2	...	...	...	9·1	14·1	...	..	1	.	1	..	...	1	..	..	..	..	177·1	...	31·9	..	.	18·8	...	...	...	...
Patna	Patna City ...	...	25	16	...	...	...	1·9	20·3	...	..	3	7	4	3	2	4	4	5	6	3	36·2	24·9	12·4	1·8	9·3	7·2	8·9	13·8	22·1	11·3
Gya ...	Gya	...	33	7	...	...	..	2	22·6	...	..	9	8	4	...	1	4	3	2	3	6	261·5	65·5	29·7	..	9·9	14·1	12·3	10·6	23·7	60·6
Shahabad ...	Arrah	...	4	5	...	...	...	6·7	21·0	.	...	3	1	1	.	...	1	..	...	...	3	121·1	11·7	10·1	...	...	6·6	...	...	...	54·1
Mozufferpore ..	Mozufferpore ...	...	9	3	...	...	..	15·6	12·5	..		4	2	...	.	3	1	...	...	...	2	217·8	25·7	..	..	31·5	6·1	...	...	..	42·7
Durbhanga ...	Durbhanga ...	...	28	5	...	...	...	30·1	14·8	...	..	8	5	2	..	1	5	3	...	2	7	267·2	34·2	13·3	...	12·9	10·5	14·0	..	23·7	114·0
Saran	Chupra	...	11	6	...	...	...	14·4	20·2	...	...	5	2	...	...	1	2	1	1	2	3	184·3	20·1	...	...	15·0	11·3	6·7	8·6	25·2	45·9
Bhagulpore ...	Bhagulpore ...	...	14	6	...	...	...	15·3	15·1	...	...	4	3	1	1	2	3	2	2	1	1	174·2	28·8	8·9	8·3	24·9	14·3	11·2	16·5	12·2	14·4
Monghyr ...	Monghyr	...	27	14	...	...	...	31·4	57·9	...	...	11	2	3	...	3	5	7	4	...	6	385·2	16·7	22·1	...	41·3	25·1	43·8	32·6	...	87·0
Purneah ...	Purneah	...	5	3	...	...	...	25·3	27·6	...	...	..	...	1	...	1	1	1	...	2	2	...		32·9	...	55·3	15·9	19·2	...	111·0	128·9
Poori ...	Poori	...	17	..	...	...	...	36·0	..	...	...	1	3	1	3	...	1	...	1	4	3	171·6	86·8	25·2	83·2	.	9·8	...	15·6	93·2	86·4
	TOTAL ...	1	349	134	...	...	1·5	21·6	23·7	...	...	98	64	25	14	24	48	57	38	42	74	29·8	35·8	11·8	7·6	15·4	11·8	10·9	15·8	26·2	58·5

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 22nd November 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing Quantities of Goods carried during the month of September 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
627	1. Grain ...	633·84	7,424·83	8,058·67	5,29,357	8,058·67	5,29,357	
.....	2. Cotton ...	.....	.....	.....	.....	.....	.....	
180	3. Oilseeds ...	52·43	2,809·59	2,862·02	2,66,051	2,862·02	2,66,051	
245	4. Salt ...	3,155·8	56·73	3,212·53	3,43,732	3,212·53	3,43,732	
4	5. Piece-goods ...	1	·51	1·51	5,700	1·51	5,700	
27	6. Metal ..	113·98	108·39	222·37	32,850	222·37	32,850	
68	7. Building materials	213·80	190 04	403·84	2,580	403·84	2,580	
1,764	8. Miscellaneous ...	8,527·82	24,454·08	32,981·90	43,28,380	32,981·90	43,28,380	
99	9. Fuel ...	2,409·32	128·36	2,537·68	24,758	2,537·68	24,758	
.....	10. Timber ...	.....	45 c. ft.	45 c. ft.	135	45 c. ft.	135	
16 rafts	11. Bamboos ...	131 c. ft.	12,825 „	12,956 „	1,276	12,956 „	1,276	
3,014 & 16 rafts.	12. Total ...	15,107·99 & 131 c. ft.	35,172·53 & 12,870 c. ft.	50,280·52 & 13,001 c. ft.	55,34,819	50,280·52 & 13,001 c. ft	55,34,819	
3,104 & 3 rafts.	13. Total of same month last year	14,764 & 36 c. ft.	34,527 & 266 c. ft.	49,291 & 302 c. ft.	54,89,254	49,291 & 302 c. ft.	54,89,254	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,027	1,987	3,014
14*a*. Empty boats, steamers, &c. No.	666	131	797
15. Total number of boats plying passenger No.	1,431	970	2,401
15*a*. Empty boats „	219	29	248
16. Total registered tonnage, cargo Tons	39,003·70	73,091·54	112,095·24
17. Total registered tonnage, passenger Tons	1,996	933	2,929
18. Ton-mileage	.....	.....	.....
19. Estimated value of cargo Rs.	23,20,563	32,12,845	55,33,408
20. Number of passengers No.	3,407	1,750	5,157
21. Rafts, bamboos C. ft.	131	12,825	12,956
22. Do., bullahs „	... ..	45	45
23. Estimated value of rafts Rs.	16	1,395	1,411
24. Tollage on boats „	9,847-2-6	16,970-13-0	26,817-15-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	1-2-0	16-11-0	17-13-0
27. Total tollage on boats per ton-mile* ...	.....	.....	.....
28 Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-2-2

	Rs. A. P.
Total tollage of month—24+25+26 ...	26,835 12 6
Total tollage of same month last year ...	27,960 15 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	1,910 10 0
2. Tollage per month ...	26,835 12 6
3. Total ...	28,746 6 6
4. Amount paid into treasury during the month ...	27,728 12 0
5. Balance due at the end of the month ...	1,017 10 6

* Boats in these rivers do not pay per mile.

Abstract for the month of September 1890 *as compared with the corresponding month of the previous year.*

	1890-91. During the month.	1890-91. To end of the month.	1889-90. During the month.	1889-90. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	26,835 12 6	1,17,987 13 0	27,960 15 6	1,17,060 3 3

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of September 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
89	1. Grain ...	707	123	830	50,106	830	50,106	
...	2. Cotton ...	.....	.....	.....	.....	...	...	
2	3. Oilseeds ..	22	.....	22	1,925	22	1,925	
29	4. Salt ...	.....	313	313	35,795	313	35,795	
3	5. Piece-goods ...	.....	16	16	11,200	16	11,200	
1	6. Metal ...	.....	1	1	150	1	150	
8	7. Building materials	13	30	43	703	22	543	
730	8. Miscellaneous ...	224	434	658	64,980	655	64,724	
8	9. Fuel ...	.....	34	34	580	27	180	
5 rafts	10. Timber ...	432 c. ft.	.....	432 c. ft.	346	432 c. ft.	346	
3 „	11. Bamboos ...	275 „	350 c. ft.	625 „	57	625 „	57	
870 & 8 rafts	12. Total ...	966 & 707 c. ft.	951 350 c. ft.	1,917 & 1,057 c. ft.	1,65,842	1,886 & 1,057 c. ft.	1,65,026	
671 & 30 rafts	13. Total of same month last year.	896 & 1,820 c. ft.	618	1,514 & 1,820 c. ft.	1,52,540	1,420 & 1,820 c. ft.	1,51,846	

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	430	440	870
5. Total number of boats plying passenger No.	94	64	158
6. Total registered tonnage, cargo Tons	2,786	2,690	5,476
7. Total registered tonnage, passenger Tons	689	626	1,315
8. Ton-mileage ...	107,062	106,301	213,363
9. Estimated value of cargo Rs.	50,763	1,14,676	1,65,439
10. Number of passengers No.	1,630	923	2,553
11. Rafts, bamboos C. ft.	275	350	625
12. Do., bullahs „	432	.....	432
13. Estimated value of rafts Rs.	373	30	403
14. Tollage on boats „	1,895-14-3	1,869-14-6	3,765-12-9
15. Compounded tollage on boats Rs.	.....	0-8-0	0-8-0
16. Tollage on rafts „	12-9-0	0-14-0	13-7-0
17. Total tollage on boats per ton-mile Rs.	.....	... ..	0-0-3·3
18. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-4-4

	Rs. A. P.
Total tollage of month—24+25+26 ...	3,779 11 9
Total tollage of same month last year ...	3,895 3 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	5,425 15 0
2. Tollage per month ...	3,779 11 9
3. Total ...	9,205 10 9
4. Amount paid into treasury during the month ...	6,299 7 6
5. Balance due at the end of the month ...	2,906 3 3

Abstract for the month of September 1890 *as compared with the corresponding month of the previous year.*

	1890-91. During the month.	1890-91. To end of the month.	1889-90. During the month.	1889-90. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	3,779 11 9	33,546 8 3	3,895 3 9	28,951 9 6

CALCUTTA,
The 25th November 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of September 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
528	1. Grain ...	7,803	.....	7,803	7,61,499	7,803	7,61,499	
1	2. Cotton ...	25	.....	25	13,300	25	13,300	
19	3. Oilseeds ...	324	.....	324	40,624	324	40,624	
290	4. Salt ...	623	5,159	5,782	5,36,293	5,782	5,36,293	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
3	6. Metal ...	11	10	21	7,493	21	7,493	
89	7. Building materials	2,315	14	2,329	41,278	2,329	41,278	
2,277	8. Miscellaneous* ...	15,508	1,458	16,966	18,99,287	16,966	18,99,287	
484	9. Fuel ...	10,667	1,112	11,779	85,747	11,779	85,747	
.....	10. Timber ...	.....	.....	.....	.....	.....	.....	
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
3,691	12. Total ...	37,276	7,753	45,029	33,85,521	45,029	33,85,521	
3,620	13. Total of same month last year.	37,732	7,421	45,153	33,48,325	45,153	33,48,325	

* For details, see next page.

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	3,287	404	3,691
14*a*. Empty ...	1,757	516	2,273
15. Total number of boats plying passenger No.	581	2	583
16. Total registered tonnage, cargo Tons	1,21,589	20,742	1,42,331
17. Total registered tonnage, passenger Tons	921	3	924
18. Ton-mileage ...	986,815	207,420	1,194,235
19. Estimated value of cargo Rs.	27,47,999	6,37,522	33,85,521
20. Number of passengers No.	2,637	10	2,647
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs „	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats „	23,784-14-9	5,082-13-0	28,867-11-9
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4·64
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs.	A.
Total tollage of month—24+25+26 ...	28,867	11
Total tollage of same month last year ...	27,569	5

Memorandum of Tollage.

	Rs.	A.
1. Balance not recovered on the 1st of the month ...	1,261	13
2. Tollage per month ...	28,867	11
3. Total	30,129	9
4. Amount paid into treasury during the month ...	29,158	6
5. Balance due at the end of the month ...	971	2

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
812	(*a*) Jute ...	11,165	.....	11,165	10,94,187	11,165	10,94,187	
45	(*b*) Jaggery ...	330	70	400	44,900	400	44,900	
5	(*c*) Sugar ...	44	.....	44	11,025	44	11,025	
2	(*d*) Tobacco ...	.....	14	14	2,800	14	2,800	
500	(*e*) Fish ...	73	3	76	21,332	76	21,332	
17	(*f*) Hides ...	43	.....	43	9,600	43	9,600	
107	(*g*) Poultry ...	28	.....	28	22,270	28	22,270	
25	(*h*) Hay and straw ...	201	.....	201	4,212	201	4,212	
69	(*j*) Oil ...	.....	1,090	1,090	1,06,855	1,090	1,06,855	
43	(*k*) Earthenware ...	70	.....	70	982	70	982	
652	(*m*) Other miscellaneous ...	3,554	281	3,835	5,81,124	3,835	5,81,124	
2,277	Total Miscellaneous...	15,508	1,458	16,966	18,99,287	16,966	18,99,287	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of September 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,146	1. Grain ...	3,950	19	3,969	3,42,703	3,969	3,42,703	
1	2. Cotton ...	3	.....	3	1,900	3	1,900	
23	3. Oilseeds ...	549	.....	549	69,187	549	69,187	
105	4. Salt ...	718	571	1,289	1,19,581	1,289	1,19,581	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.....	6. Metal ...	.....	.....	.....	.....	.....	.....	
639	7. Building materials	6,868	.....	6,868	24,140	6,868	24,140	
791	8. Miscellaneous* ...	3,672	66	3,738	3,69,783	3,738	3,69,783	
142	9. Fuel ...	2,215	.....	2,215	16,755	2,215	16,755	
2 rafts.	10. Timber ...	925 c. ft.	125 c. ft.	1,050 c. ft.	2,625	1,050 c. ft.	2,625	
5 „	11. Bamboos ...	187 „	.....	187 „	23	187 „	23	
2,847 & 7 rafts.	12. Total ...	17,975 & 1,112 c. ft.	656 & 125 c. ft.	18,631 & 1,237 c. ft.	9,46,697	18,631 & 1,237 c. ft.	9,46,697	
3,170 & 9 rafts.	13. Total of same month last year ...	16,642 & 3,763 c. ft.	665	17,307 & 3,763 c. ft.	11,81,995	17,307 & 3,763 c. ft.	11,81,995	

* For details, see next page.

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	2,756	91	2,847
14*a*. Empty „	959	171	1,130
15. Total number of boats plying passenger ... No.	397	6	403
16. Total registered tonnage, cargo ... Tons	49,139	2,268	51,407
17. Total registered tonnage, passenger ... Tons	829	9	838
18. Ton-mileage	400,465	36,288	436,753
19. Estimated value of cargo Rs.	8,80,382	63,667	9,44,049
20. Number of passengers No.	2,542	16	2,558
21. Rafts, bamboos C. ft.	187	.....	187
22. Do., bullahs „	925	125	1,050
23. Estimated value of rafts Rs.	2,331	317	2,648
24. Tollage on boats „	7,078-8-6	558-0-0	7,636-8-6
25. Compounded tollage on boats ... Rs.	.....	.....	.....
26. Tollage on rafts „	8-4-6	1-14-0	10-2-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·35
28. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-13-1

	Rs. A. P
Total tollage of month—24+25+26 ...	7,646 11 (
Total tollage of same month last year ...	7,951 0

Memorandum of Tollage.

	Rs. A. P
1. Balance not recovered on the 1st of the month ...	503 4 (
2. Tollage per month ...	7,646 11 (
3. Total	8,149 15 (
4. Amount paid into treasury during the month ...	7,783 0
5. Balance due at the end of the month ...	366 15

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value Rupees.	Remarks.
92	(*a*) Jute ...	484	..	484	46,942	484	46,942	
75	(*b*) Jaggery ...	428	9	437	48,980	437	48,980	
... ..	(*c*) Sugar ...	.....	.....	...	.....	.....	.....	
12	(*d*) Tobacco ...	95	14	109	21,525	109	21,525	
61	(*e*) Fish ...	3	2	5	1,320	5	1,320	
1	(*f*) Hides ..	... .	....	... .	80	.....	80	
14	(*g*) Poultry ...	6	.....	6	1,324	6	1,324	
200	(*h*) Hay and straw...	420	.....	420	8,821	420	8,821	
49	(*j*) Oil ...	580	18	598	58,537	598	58,537	
77	(*k*) Earthenware ...	87	.....	87	1,217	87	1,217	
210	(*m*) Other miscellaneous.	1,569	23	1,592	1,81,037	1,592	1,81,037	
791	Total Miscellaneous...	3,672	66	3,738	3,69,783	3,738	3,69,783	

ABSTRACT FOR THE MONTH OF SEPTEMBER 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1890-91. During the month.	To end of the month.	Traffic, 1889-90. During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta and Eastern Canals ...	28,867 11 9	1,19,932 3 3	27,560 5 6	1,27,297 4 6
Tolly's Nullah	7,646 11 0	48,142 14 0	7,951 0 3	41,577 0 9
Total ..	36,514 6 9	1,68,075 1 3	35,511 5 9	1,68,874 5 3

CALCUTTA,
The 25th November 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 22nd November 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 22nd November 1890. Number of boats.	Weight of cargo.	Tollage.	Week ending Saturday, the 23rd November 1889. Number of boats	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	395	73,725	1,152	54	13,600	231
Jute	440	2,45,925	4,294	220	1,08,193	1,911
Firewood	181	75,900	1,137	73	45,375	643
Other articles	1,176	3,03,225	4,360	686	1,86,710	3 052
Total ...	2,192	6,98,775	10,943	1,033	3,53,878	5,847

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of August 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	1,888	1,910	8,302	1,244	11,295	9,698	1,689	...
Cotton, raw	4	27	6	320	31	326	....	295
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	1,777	72	2,385	231	1,849	2,616	.....	767
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	2,086	3,699	1,337	1,915	5,785	3,252	2,533	...
5.—Others	1,213	2,060	859	3,511	3,273	4,370	... ..	1,097
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	2	424	4	251	426	255	171	.....
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed	.....	3,999	.. ..	8,431	3,999	8,431	.....	4,522
b.—Unscrewed	53	42,686	9	43,809	42,739	43,908	....	1,169
2.—Gunny-bags and cloth	95	922	46	669	1,017	715	3 2	... ..
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	625	77	1,020	96	702	1,116	.....	414
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	877	3	587	7	880	594	286	.....
3.—Others	2 3	43	209	8	316	217	99	.....
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	246	1,068	114	2,302	1,314	2,417	.....	1,103
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	61	408	115	70	467	185	282	.....
3.—Others	311	155	260	131	466	391	75	... .
Railway plant and rolling-stock	.....	... ..	4,454	1,414	13,520	5,868	7,652	.
Salt	3,654	32	2,741	16	3,686	2,757	929	...
Sugar—								
1.—Drained	777	146	342	329	923	671	252	.. ...
2.—Undrained								
Tea—								
1.—Foreign	.....	2,219	.. ..	2,244	2,219	2,244	.....	25
2.—Indian								
Wood—								
1.—Timber	75	45	488	33	120	521	.....	401
2.—Firewood	1,510	. .	1,547	.. ...	1,510	1,547	.. ...	31
Tobacco	47	1,645	56	1,928	1,692	1,984	.....	292
All other articles of merchandise—								
1.—Unmanufactured	2,697	1 279	2,833	1,614	3,976	4,447	.. . .	471
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Sections) ...	470	.....	532	.....	470	532	.....	62
Total ...	18,747	62,827	28,307	70,663	102,591	98,970	14,270	10,649

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of August 1890.

Increases.	Tons.
Coal	1,689
For railway and flotilla consumption.	
Rice	2,533
Goalundo contributed 11,000 maunds and the Northern Section the remainder.	
Railway plant and rolling-stock	7,652
For repairs and renewals.	
Salt	929
The despatches from Chitpore increased by 44,914 maunds.	

Decreases.	Tons.
Cotton piece-goods	767
Ordinary fluctuation of traffic.	
Jute, screwed	4,522
Narayanganj shows the large decrease of 1,75,380 maunds.	
Jute, unscrewed	1,169
The decrease in despatches from Narayanganj amounted to 52,128 maunds.	
Oil-seeds	1,103
Narayanganj shows the largest decrease, 18,285 maunds, and Narayang follows with a decrease of 5,854 maunds.	

F. P. QUINLAN,
Examiner of Accounts.

CALCUTTA, *the 17th November* 1890.

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 4 weeks ended 25th October 1890, *as compared with the same period of* 1889.

STAPLES	1890.		1889		Increase.		Decrease	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING — Horses, ponies, and mules	No. 35	493	No. 7	142	No. 28	350	No.	..
ANIMALS, LIVING — Cattle	,, 603	4,321	,, 452	3,719	,, 151	602	,, ...	..
ANIMALS, LIVING — Sheep and goats	,, 3,126	2,633	,, 5,706	3,247	,, ...	....	,, 580	614
ANIMALS, LIVING — Other kinds	,, ..	.....	,, ...	.....	,, ...	.. ..	,, ...	.....
Borax	772	487	239	131	533	356	... ..	.....
Canes and rattans	147	213	150	215	.....	.....	3	2
Caoutchouc (Indian-rubber)	... ..	.....	... ..	.....	.. ..	.. ..	... ..	.....
Chinese and Japanese ware	... ..	... ..	... ..	... ..	.. ..	.. ..	... .	... ..
Coal and coke, up	4,72,143	1,17,945	4,50,959	1,41,872	21,184	.. ..	.. ..	23,927
Coal and coke, Ditto, down	25,61,791	3,44,261	21,33,541	2,93,385	4,28,250	50,876	.. ..	....
Cotton, raw	20,311	19,766	52,676	26,614	..	..	32,365	6,848
COTTON, MANUFACTURED — Twist and yarn (European)	8,167	9,708	6,142	8,336	1,725	1,372	... ..	... .
COTTON, MANUFACTURED — Ditto (Indian)	16,865	8,937	13,787	7,959	3,078	968	.. ..	.. ..
COTTON, MANUFACTURED — Piece-goods (European)	1,59,874	1,71,325	1,47,525	1,80,480	12,349	..	.	10,155
COTTON, MANUFACTURED — Ditto (Indian)	26,313	18,558	31,546	25,290	.... ..	... ..	5,233	6,732
DRUGS AND MEDICINES — Asafœtida	152	91	155	87	.....	4	3	.....
DRUGS AND MEDICINES — Other sorts, not intoxicating	1,380	1,089	1,147	1,010	...	79	117	.
DRUGS AND MEDICINES — Intoxicating drugs (other than opium, *i.e.*, arsenic, bhang, ganja, and charas, &c.)	853	449	552	297	301	152	... ..	.. ..
DYEING MATERIALS — Indigo	6,302	13,549	10,999	28,180	.....	.....	4,697	14,631
DYEING MATERIALS — Madder or manjit	.. ..	.. ....	... ..	... ..	.....	... .	.....	..
DYEING MATERIALS — Safflower	170	91	106	48	64	43	.....	.. ..
DYEING MATERIALS — Turmeric	15,044	14,440	6,646	3,730	8,398	10,720	... ..	... ..
DYEING MATERIALS — Other kinds	3,433	2,279	4,107	2,086	.....	.. ...	674	707
Earthenware and porcelain	613	860	623	894	.....	.....	10	..4
FIBROUS PRODUCTS — Jute, raw	40,672	5,739	95,344	10,718	.. ..	... ..	54,672	4,979
FIBROUS PRODUCTS — Do., manufactured (gunny-bags and cloths)	44,341	21,192	49,736	29,366	.. ..	... ..	5,395	5,174
FIBROUS PRODUCTS — Other fibres, raw	3,787	955	6,948	2,736	.. ..	....	3,161	1,781
FIBROUS PRODUCTS — Ditto, manufactured	2,031	735	1,284	359	747	376	.. ..	.....
FRUITS & NUTS — Cocoanuts	10,926	4,847	3,751	1,930	6,275	2,917	... ..	.. ..
FRUITS & NUTS — All other kinds	98,856	25,938	25,355	22,235	3,501	3,703	... ..	...
GRAIN & PULSES — Wheat	1,9,,312	64,045	2,12,742	67,755	...	..	14,820	3,710
GRAIN & PULSES — Gram and pulses	2,58,652	63,412	2,08,582	70,592	50,070	.. ..	.. ..	7,180
GRAIN & PULSES — Rice, husked	4,01,424	71,427	3,61,664	58,567	39,760	12,860	...	. ...
GRAIN & PULSES — Do., unhusked	78,607	8,203	66,257	6,933	11,750	1,270	.. ..	... ..
GRAIN & PULSES — Other rain and spring crops	1,37,398	25,586	1,00,278	20,196	37,120	5,390	... .	. ..
Government stores	18,396	32,172	13,537	18,852	4,859	13,320	.....	. ....
Gums and resins	3,782	2,196	4,065	2,715	.	.. ..	283	519
HIDES & SKINS — Hides of cattle	28,775	14,539	26,669	13,111	2,106	1,428	.....	...
HIDES & SKINS — Skins of sheep, goats, and small animals	12,010	4,630	11,861	4,961	149	.....	... ..	325
Horns	1,424	1,041	1,392	832	122	209	... .	.....
LAC — Lac, dye	120	41	108	40	12	1	... ..	....
LAC — Do., shell	12,240	8,819	11,643	9,285	727	. ..	.. ..	466
LAC — Do., stick and other kinds	13 039	4,077	15,233	5,155	... .	... ..	2,194	178
LEATHER — Leather, unmanufactured	1,499	2,841	1,784	3,683	... ..	... ..	285	842
LEATHER — Ditto, manufactured	2,840	3,908	3,296	5,279	... ..	.....	456	1,371
Liquors	14,845	12,472	14,549	13,535	296	... ..	... ..	1,063
Mats	300	268	268	215	122	53	.. ..	... .
Minerals	86,107	17,170	1,10,905	19,600	.....	.....	14,798	2,430
METALS AND MANUFACTURES OF — Brass and copper	24,718	16,526	25 054	15,404	...	1,122	336	... ..
METALS AND MANUFACTURES OF — Iron	87,554	57,041	77,060	44,452	10,494	12,589	.. ..	... .
METALS AND MANUFACTURES OF — Other metals	6,439	5,836	5,852	5,104	587	732	... .	.. ..
Oils	76,556	33,708	74,055	42,003	2,351	.....	.....	8,295
Opium	1,141	2,165	866	1,142	575	1,023	.....	....
Paints and colours	425	3,185	3,630	3,020	.. ..	165	3,211	.....
PROVISIONS — Ghee	20,201	27,766	23,022	19,086	6,279	8,680	... .	.....
PROVISIONS — Other kinds	10,379	6,915	6,885	5,580	3,494	1,335	.. ..	.....
Railway materials, Construction Account	20,540	1,010	44,328	1 516	.....	.....	24,788	506
Ditto ditto, Foreign	38,488	14,349	1,52,062	73,319	... ..	... ..	113,574	58,970
Salt	5,50,250	1,12,864	4,09,843	93,966	50,407	19,398	... ..	... .
SALTPETRE, &C. — Saltpetre	41,401	16,708	40,219	15,952	1,182	754	... ..	... ..
SALTPETRE, &C. — Other saline substances	14,799	5,258	13,112	5,130	1,687	128	.	. ...
SEEDS — Oil-seeds — Linseed	2,25,370	64,734	1,91,780	64,114	33,590	1,020	... ..	. ..
SEEDS — Oil-seeds — Mustard and rape	56,693	9,956	88,492	18,236	.....	.. ..	31,800	8,280
SEEDS — Oil-seeds — Til or gingelly	... ..	... ..	... ..	... ..	... ..	.....	... ..	.....
SEEDS — Oil-seeds — Other oilseeds	60,916	17,858	88,846	26,668	.....	... ..	27,930	8,810
SEEDS — Other seeds — Indigo seed	12,456	5,382	2,595	852	9,860	4,530	....	.....
SEEDS — Other seeds — Tea seed	... ..	.....	....	.....	.. .	.. .	.. ..	... ..
SEEDS — Other seeds — Other kinds	34,295	13,080	43,225	15,130	.....	.....	8,930	2,050
SILK — Silk, raw	844	809	1,039	1,027	... ..	.....	195	128
SILK — Do., manufactured (European)	.....	.....	.....	.....	... ..	.....	... ..	.....
SILK — Do., ditto (Indian)	212	140	473	334	... ..	... ..	269	185
Spices	13,541	8,206	9,783	6,857	3,758	1,349	... ..	... ..
Stone and marble	90,624	10,572	1,26,786	13,200	..	..	36,162	2,628
SUGAR — Sugar, refined	1,08,241	36,334	89,268	24,957	18,973	11,397	.....	. ...
SUGAR — Do., unrefined	52,942	10,293	48,919	9,497	4,023	796	.....	.....
TEA — Tea, Indian	4,532	4,606	3,022	4,156	910	450	... ..	.....
TEA — Do., Foreign	59	34	72	41	.....	.....	13	7
Tobacco	33,321	12,756	33,196	13,828	125	... .	.. ..	1,072
WOOD — Timber	22,485	3,941	13,654	2,236	8,811	1,715	.	.....
WOOD — Firewood	18,259	909	9,781	694	8,478	305	.....	.....
WOOL — Wool, raw	447	565	787	969	... ..	.....	340	404
WOOL — Do., manufactured (European)	1,769	3,689	1,787	3,723	... ..	.....	18	34
WOOL — Wool, manufactured (Indian)	3,471	3,481	3,970	4,072	.....	.....	499	591
WOOL — Shawls	.....	....	.....	.....	.....	.....	.....	.....
All other articles of merchandise	1,71,038	1,13,451	1,10,969	1,10,402	60,069	3,049	.....	.....
Bones	31,429	8,237	19,626	4,899	11,803	3,338	... ..	.....
Potatoes	48,386	20,895	47,484	20,158	852	737	.....	.....
Total	65,82,422	17,85,979	61,10,521	17,98,436	8,52,123	1,82,231	3,80,222	1,94,688

General remarks on the fluctuation of principal staples carried over the East Indian Railway during the month ended 25th October 1890.

INCREASES.

Coal and coke, up and down.—In the upward traffic there was an increase in the weight carried, attended with a decrease in earnings. The former was due to despatches of short distance Umaria coal from *viâ* Katni to Jubbulpore for the Great Indian

Peninsula Railway, and the decrease in earnings to smaller despatches for the Bombay-Baroda and Central India and the North-Western Railways. The downward traffic showed an advance partly for export to coast ports.

Turmeric. The increase in this commodity occurred chiefly in despatches from Howrah to Patna, Cawnpore and other up-country stations.

Rice (husked and unhusked).—Due to heavier despatches from the loop line stations to stations on the Oudh and Rohilkhand Railway, where the crop was damaged by heavy rains, and to Howrah.

Other rain and spring crops.—The increase was chiefly in Indian-corn and other cheap food-grains from stations on the "B" district to stations on the "B" district, and the Oudh and Rohilkhand Railway.

Government stores.—Chiefly in despatches of ammunition from Howrah and Bhadreswar ghât to Allahabad and Agra, and in ordnance stores from Allahabad Fort and Cawnpore to Agra Delhi, and stations on the North-Western Railway.

Iron.—Consisted chiefly of iron pipes from Howrah for the Allahabad and Agra water-works.

Ghee.—The improvement in this staple was chiefly in despatches from stations in the North-Western Provinces to Howrah, owing to a good demand in Calcutta for the Doorga Poojah holidays.

Salt.—Chiefly in despatches of imported salt from Howrah to the Bengal and North-Western Railway and to the Tirhoot State Railway.

Sugar (refined and unrefined).—The increase was chiefly in imported sugar from Howrah to up-country stations.

Bones.—Chiefly in despatches from Digha Ghât, Mokameh Ghât, and *viâ* Moghalsarai to Bally and Chitpore.

DECREASES

Cotton.—The decrease was chiefly in despatches from Cawnpore and other cotton despatching stations in the "D" district owing to last season having been early.

Piece-goods, European.—There was an increase in the weight carried, attended with a decrease in earnings, due to heavy short distance despatches from Howrah to stations on the "A" and "B" districts, owing to a good demand for the Doorga Poojah Holidays. Despatches to Cawnpore and Delhi show a serious falling off.

Indigo.—The decrease was in despatches from the North-Western Provinces; the crop suffered much from heavy rains in July and August last.

Jute, raw.—The falling off was chiefly in receipts from the Eastern Bengal State Railway *viâ* Naihati and Sahebgunge.

Gunny.—Chiefly in despatches from Howrah and neighbouring stations, owing to the state of the export produce trade.

Gram and pulses.—The improvement in the weight carried was in short lead traffic from stations on the loop line to Patna and stations above, and the decrease in earnings was in long distance traffic from stations on the "D" district.

Railway materials, foreign.—Chiefly in heavier despatches of permanent-way material sent last year from Howrah for the Delhi-Umballa-Kalka Railway.

Seeds.—Chiefly in mustard and other oil seeds from Patna and the Bengal and North-Western and Tirhoot Railways.

N. ST. L. CARTER, *Traffic Manager.*

TRAFFIC MANAGER'S OFFICE, CALCUTTA, *the 19th November* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY

Approximate Return of Traffic for week ended 15th November 1890, *on* 1,525½ *miles open.*

	COACHING TRAFFIC		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	MDS. S.	RS. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	208,706	*2 80,261 11 0	19,30,265 20	5,37,119 2 0	15,510 15 5	8,32,891 12 5	71,492½	76,880½	148,373½
Or per mile of railway	....	183 11 6	....	352 1 6	10 2 8	545 15 8	..	.....	..
For previous 19 weeks of half-year	4,230,609	44,70,671 8 0	3,73,13,959 0	82,41,805 2 6	3,06,405 5 8	1,30,18,882 0 2	1,221,745½	1,436,051	2,657,796½
Total for 20 weeks	4,439,315	47,50,933 3 0	3,72,50,224 20	87,78,924 4 6	3,21,916 5 1	1,38,51,773 12 7	1,293,238	1,512,931½	2,806,169½
COMPARISON									
Total for corresponding week of previous year	252,634	3,60,848 4 1	22,52,118 0	5,54,696 3 9	21,602 2 3	9,37,136 10 1	65,970	82,459	148,429
Per mile of railway corresponding week of previous year	.....	236 8 8	..	363 9 9	14 2 7	614 5 0	....	....	.....
Total to corresponding date of previous year	4,816,484	52,25,768 9 0	4,10 81,171 30	92,11,825 9 3	3,19,526 0 8	1,47,57,120 2 11	1,306,728	1,597,473	2,094,201

* The decrease in coaching traffic is partly due to general falling off in traffic, and also to extra trains for troops and Viceroy's body guard having run from Saháranpur to

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs	Rs		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs
1,525½	9,37,137	614	1,525½	8,32,892	546	1,525½	2,67,83,872	532	1,525½	2,48,84,164	494	.....	18,99,70

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,962	5,748 4 0	44,238 0	2,826 12 0	33 2 0	8,008 2 0	1,818	576	2,394
Or per mile of railway	191½	100 7 11	773 20	49 6 8	0 9 3	150 7 10	.....	.....	.....
For previous 19 weeks of half-year	219,284	1,30,170 9 0	6,28,423 30	41,579 0 0	625 8 0	1,72,375 1 0	25,851½	10,124	35,975½
Total for 20 weeks ...	230,246	1,35,918 13 0	6,67,661 30	44,40. 12 0	658 10 0	1,80,083 3 0	27,669½	10,700	38,369½
Comparison.									
Total for corresponding week of previous year	14,867½	8,190 9 6	38,485 10	2,578 3 0	67 9 3	10,836 5 9	1,808	730	2,538
Per mile of railway corresponding week of previous year ...	260	143 3 1	673 0	45 1 2	1 2 11	189 7 2	.....	.....	.....
Total to corresponding date of previous year	*284,029	*1,59,617 7 9	8,92,749 0	†44,715 7 0	‡1,440 1 3	2,05,773 0 0	30,647	14,464	45,111

* Add number of passengers 250½ and Rs. 197 6 3 }
† Ditto Mds. 3,310 and „ 74 5 0 } on account of supplemental return for 30th September 1889.
‡ Ditto „ 579 3 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 16th November 1889.			Receipts for week ending 15th November 1890.			Total receipts from 1st April 1889 to 16th November 1889.			Total receipts from 1st April 1890 to 15th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	10,836	189	57½	8,608	150	57½	*3,19,769	169	57½	†3,09,943	164	.....	9,826

* Added Rs. 851 on account of supplemental return for 30th Sept. 1889.
† Added „ 2,215 ditto ditto for 30th June 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,244	3,731 4 0	11,743 10	487 5 0	6 4 0	4,224 13 0	903	65	968
Or per mile of railway ...	.....	167 11 2	.....	21 14 5	0 4 6	189 14 1	.....	.....	.....
For previous 19 weeks of half-year	308,868	75,464 6 0	1,21,876 0	4,851 7 0	100 10 0	80,416 7 0	17,168	894	13,062
Total for 20 weeks ...	324,112	79,195 10 0	1,33,599 10	5,338 12 0	106 14 0	84,641 4 0	18,071	959	19,030
Comparison.									
Total for corresponding week of previous year	17,668	4,433 12 6	9,786 20	356 5 0	12 3 0	4,802 9 6	898	70	968
Per mile of railway corresponding week of previous year ...	.....	199 4 4	.....	16 0 3	0 0 0	215 13 7	.....	.....	.....
Total to corresponding date of previous year	359,237	87,096 7 6	*1,90,380 30	*5,131 13 0	†120 15 9	92,949 4 3	18,372	1,399	19,771

* Added Mds. 5,714-30 and Rs. 52 8 0 }
† Ditto „ 0 4 0 } on account of supplemental return for 30th September 1889.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 16th November 1889.			Receipts for week ending 15th November 1890.			Total receipts from 1st April 1889 to 16th November 1889.			Total receipts from 1st April 1890 to 15th November 1890.			Total increase in 1890	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	4,863	216	22½	4,225	190	22½	*1,75,587	239	22½	†1,69,691	231	.....	5,896

* Added Rs. 53 on account of supplemental return for 30th September 1889.
† Ditto „ 201 ditto ditto for 30th June 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 8th November 1890, *on* 763 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	162,809	75,816 0 0	7,35,354 0	1,93,590 0 0	19,070 0 0	2,88,470 0 0	22,000	37,352	59,352
Or per mile of railway	213	99 0 0	951 0	254 0 0	† 5 0 0	358 0 0	.....	.....	.....
For previous 18 weeks of half-year	2,459,764	10,67,364 0 0	1,05,09,667 0	26,46,585 0 0	2,84,366 0 0	*39,96,315 0 0	388,499	593,077	981,576
Total for 19 weeks	2,622,573	11,43,174 0 0	1,12,35,021 0	28,40,175 0 0	3,03,436 0 0	42,86,785 0 0	410,499	630,429	1,040,928
COMPARISON.									
Total for corresponding week of previous year	a 228,258	99,441 0 0	5,67,801 0	1,61,935 0 0	25,043 0 0	2,86,419 0 0	22,909	36,244	59,153
Per mile of railway corresponding period of previous year ...	305	133 0 0	757 0	217 0 0	† 9 0 0	359 0 0	.....	.....	.....
Total to corresponding date of previous year	2,716,382	12,04,102 0 0	1,18,66,138 0	29,07,176 0 0	3,28,786 0 0	44,40,014 0 0	429,177	603,576	1,033,953

* Audited up to week ending 20th September 1890.
† Excluding steamer earnings.
a Due to Rash Jatra.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 9th November 1889.			Receipts for week ending 8th November 1890.			Total receipts from 1st April 1889 to 9th November 1889.			Total receipts from 1st April 1890 to 8th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,86,419	383	763	2,88,470	378	714	65,75,456	288	759	*66,69,443	274	93,987	.....

* Audited up to week ending 20th September 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, *on* 125 *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	28,386	9,440 0 0	47,306 0	4,050 0 0	120 0 0	13,610 0 0	3,660	1,992	5,652
Or per mile of railway	227	76 0 0	378 0	32 0 0	1 0 0	109 0 0	.....	.....	.....
For previous 18 weeks of half-year	448,612	1,43,674 0 0	7,35,566 0	61,035 0 0	2,718 0 0	*2,07,427 0 0	64,299	36,876	101,175
Total for 19 weeks ...	476,998	1,53,114 0 0	7,82,872 0	65,085 0 0	2,838 0 0	2,21,037 0 0	67,959	38,868	106,827
COMPARISON.									
Total for corresponding week of previous year	a46,699	14,756 0 0	55,865 0	4,232 0 0	138 0 0	19,116 0 0	3,587	2,085	5,672
Per mile of railway corresponding period of previous year ...	374	118 0 0	447 0	34 0 0	1 0 0	153 0 0	.....	.....	.....
Total to corresponding date of previous year	527,107	1,78,392 0 0	11,54,737 0	1 08,802 0 0	3,291 0 0	2,90,485 0 0	67,182	47,018	114,200

* Audited up to week ending 20th September 1890.
a Due to Rashjattra.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 9th November 1889.			Receipts for week ending 8th November 1890.			Total receipts from 1st April 1889 to 9th November 1889.			Total receipts from 1st April 1890 to 8th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
126	19,116	153	125	13,610	109	125	4,70,332	117	125	*3,86,546	97	.....	83,786

* Audited up to week ending 20th September 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,510	5,960 0 0	43,775 0	4,930 0 0	140 0 0	11,050 0 0	2,410	694	3,104
Per mile of railway	180	69 0 0	509 0	57 0 0	2 0 0	128 0 0	.....	.....	.....
For previous 18 weeks of half-year	267,101	85,922 0 0	3,17,221 0	28,306 0 0	4,694 0 0	*1,18,922 0 0	42,781	12,763	55,544
Total for 19 weeks ...	283,611	91,902 0 0	3,60,996 0	33,236 0 0	4,834 0 0	1,29,972 0 0	45,191	13,457	58,648
Comparison.									
Total for corresponding week of previous year	19,009	6,372 0 0	28,970 0	3,252 0 0	233 0 0	10,057 0 0	2,258	1,517	3,775
Per mile of railway corresponding period of previous year	221	76 0 0	336 0	38 0 0	3 0 0	117 0 0	.....	.....	.....
Total to corresponding date of previous year	284,373	91,316 0 0	4,32,300 0	35,068 0 0	3,996 0 0	1,30,380 0 0	47,221	17,270	64,491

* Audited up to week ending 20th September 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 9th November 1889.			Receipts for week ending 8th November 1890.			Total receipts from 1st April 1889 to 9th November 1889.			Total receipts from 1st April 1890 to 8th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	10,057	117	86	11,050	128	86	2,04,659	74	86	*2,11,833	77	7,174	.....

* Audited up to week ending 20th September 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated). *	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week ...	2,859	1,030	6,687	330	10	1,370	500	250	750
Per mile of railway ...	105	38	245	12	.....	50	.....	.....	.....
For previous 18 weeks of half-year	52,304	18,568	1,91,884	10,425	272	*29,265	9,752	6,054	15,806
Total for 19 weeks ...	55,253	19,598	1,98,571	10,755	282	30,635	10,252	6,304	16,556
Comparison.									
Total for corresponding week of previous year	3,605	1,307	3,837	266	15	1,588	586	177	763
Per mile of railway corresponding period of previous year ...	132	48	141	10	.....	58	.....	.....	.....
Total to corresponding date of previous year	50,153	21,539	1,56,705	10,343	1,402	33,284	10,084	6,687	17,671

* Audited up to week ending 20th September 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 9th November 1889.			Receipts for week ending 8th November 1890.			Total receipts from 1st April 1889 to 9th November 1889.			Total receipts from 1st April 1890 to 8th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
27½	1,588	58	27½	1,370	0	27½	58,863	67	27½	* 56,637	65	.....	2,226

* Audited up to week ending 20th September 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 8th November 1890, on 601 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 601 miles open)	76,040	32,210	3,72,310	52,750	8,800	93,760	13,000	15,432	28,432
Or per mile of railway ...	111·35	46·01	538·79	76·34	12·74	135·69	.....	..	.....
For previous 17 weeks of half-year	1,288,010	4,99,829	44,88,874	5,57,290	1,18,187	11,75,306	215,962	204,575	420,537
Total for 18 weeks ...	1,364,050	5,32,039	48,61,194	6,10,040	*1,26,987	12,69,066	228,962	220,007	448,969
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year, 649 miles open...	2,03,753	85,785	2,37,459	25,204	7,773	1,18,762	17,452	13,241	30,693
Per mile of corresponding week of previous year	313·05	132·18	365·88	38·83	11·98	182·99	.....	.....	.....
Total to corresponding date of previous year	1,495,181	5,02,041	48,99,634	5,60,032	1,46,707	12,69,440	214,582	236,065	451,647

* Steam-boat earnings for the week, Rs. 7,150.
Ditto ditto to date, „ 97,140.

* Ajodhya bridge earnings for the week, Rs. 410.
Ditto ditto to date, „ 5,060.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 8TH NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 9TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 8TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 9TH NOVEMBER 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
601	93,760	135·69	649	1,18,762	182·99	674	25,92,746	121·30	649	25,85,093	125·03	7,653	.....

N.B.—Earnings of B. and N.-W. Section.

	Week ended 8-11-90. Rs.	Week ended 9-11-89. Rs.
Coaching ...	15,020	43,116
Goods ...	17,490	8,207
Other earnings ...	5,300	5,571
Total ...	38,710	56,994

Earnings of Tirhoot Section.

	Week ended 8-11-90. Rs.	Week ended 9-11-89. Rs.
	16,290	42,669
	35,260	16,907
	3,500	2,202
	55,050	61,778

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 25th October 1890	11,013
Corresponding period of 1889	11,953
Decrease	940
	Rs. A. P.
Receipts per mile for week ending 25th October 1890	215 15 1
Corresponding period of 1889	234 6 3
Decrease	18 7 2
Receipts from 1st July to 25th October 1890	1,68,480
Corresponding period of 1889	1,90,737
Decrease	22,257

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 1st November 1890	11,881
Corresponding period of 1889	12,278
Decrease	397
	Rs. A. P.
Receipts per mile for week ending 1st November 1890	232 15 4
Corresponding period of 1889	240 12 1
Decrease	7 12 9
Receipts from 1st July to 1st November 1890	1,89,361
Corresponding period of 1889	2,03,015
Decrease	13,654

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.	Rs.
Approximate earnings for week ending 8th November 1890	11,403
Corresponding period of 1889	11,853
Decrease	450
	Rs. A. P.
Receipts per mile for week ending 8th November 1890	223 9 5
Corresponding period of 1889	232 6 9
Decrease	8 13 4
Receipts from 1st July to 8th November 1890	2,00,704
Corresponding period of 1889	2,14,869
Decrease	14,165

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OFFER OF RANI MANOMOHINI DEBI OF PUTIYA, IN RAJSHAHYE, TO CONSTRUCT WELLS TO IMPROVE THE SUPPLY OF WATER FOR DRINKING AND BATHING PURPOSES IN THE DISTRICT.

REVENUE DEPARTMENT—LAND REVENUE.

Calcutta, the 29th November, 1890.

RESOLUTION.

READ—

A memorandum from the Commissioner of Rajshahye, No. 135P.W., dated the 27th August, 1890; also No. 94P.W.Ct., dated the 7th November, 1890.

RANI MANOMOHINI DEBI of Putiya, in the district of Rajshahye, having offered to construct a number of wells, at an estimated expenditure of Rs. 10,000 to Rs. 12,000 per annum for four or five years, with a view to improving the supply of water for drinking and bathing purposes throughout the district, the Lieutenant-Governor is pleased to accept this offer, and tenders his thanks to the Rani for her public spirit and liberality.

ORDER.—Ordered that a copy of the Resolution be forwarded to the Commissioner of Rajshahye for information and for communication to the Rani.

Ordered also that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Government of Bengal.

RESOLUTION REVIEWING THE REPORTS ON THE WORKING OF DISTRICT BOARDS DURING THE YEAR 1889-90.

MUNICIPAL DEPARTMENT—LOCAL SELF-GOVERNMENT.

Calcutta, the 25th November, 1890.

RESOLUTION.

READ—

The reports from the several Commissioners of Divisions on the working of District Boards during the year 1889-90.

Read again—

The Resolution on the working of District Boards in Bengal during the year 1888-89.

The present reports, which are prepared in accordance with the instructions issued in Government Circular No. 21, dated the 1st November 1889, furnish full information on the working of District Boards during the past year, and under separate orders copies have been liberally supplied to those whom they concern. They are a great improvement on the reports submitted in previous years, and in particular the report of Mr. Toynbee, the Officiating Commissioner of Burdwan, deserves commendation. The statistics which accompany them are given in forms recently prescribed by the Government of India, which were only circulated in July last, and it is largely due to the late arrival of these forms, and the difficulty of substituting them in so short a time for those already in use, that delay has occurred in the submission of the reports.

Constitution of Boards.

2. Form I appended to this Resolution contains particulars regarding the constitution of the District and Local Boards in Bengal, the number of meetings held by the Boards, and the average attendance at meetings. There were during the year 38 District Boards and 106 Local Boards; the area comprised within their jurisdiction was 109,391 square miles, and the total population, according to the census of 1881, was 57,185,307.

3. The total number of members of District Boards, including the Chairmen, was 797, of whom 460 were appointed by Government and 337 were elected. Of the total number of members, 243 were officials and 584 non-officials. The number of Europeans or Eurasians and natives of India respectively was 186 and 611. The average number of members of each District Board was 20·97. It was suggested, in paragraph 7 of the Resolution on the working of District Boards for 1888-89, that the number of members of the District Boards of Bhagulpore, Midnapore, Rungpore, and Sarun might be reduced, and the number of members of the Bhagulpore and Midnapore District Boards now consists of 30 and 24, while a proposal to reduce the number of members of the Rungpore District Board to 26 is under consideration. As in the previous year, the Magistrate of the District was in every instance re-appointed Chairman of the District Board on the expiry of his term of office, under section 24 of the Bengal Local Self-Government Act.

4. The total number of members of Local Boards was 1,203, of whom 768 were nominated by Government and 435 were elected. The elective system is in force in 58 Local Boards. Of the total number of members of Local Boards, 163 were officials and 1,040 non-officials. The number of Europeans or Eurasians and natives of India on the Boards was 97 and 1,106 respectively. The average number of members of each Local Board was 11·35. Midnapore (36) and Arrah (30) head the list in point of numbers, but it has been decided to reduce the numerical strength of these Boards on the expiry of the term of office of the existing incumbents.

5. The statements do not in all cases furnish the professional occupation of the members of Boards. This is, however, a very important point, and instructions will separately issue calling for information under this head in future years as well for District and Local Boards as for Municipal Committees. It was found, on occasion of the first elections in 1887,

that the proportion of zemindars elected to the District Boards was about 30 per cent., of pleaders 26·4 per cent., and of Government servants 17·7 per cent., and it is not likely that the proportion has materially changed. Generally speaking the members of District and Local Boards consist of zemindars and talookdars, pleaders and Government servants, with a somewhat larger proportion of medical practitioners and mooktears in the case of Local Boards, and in districts where they are to be found, indigo and tea planters, railway employés and managers of European firms always enjoy a fair share of representation.

General elections.

6. The year under report witnessed the second general election of members of District and Local Boards which had completed their three years' term of existence, and the elections were on the whole successfully conducted. The following are the remarks recorded by the Divisional Commissioners on the subject.

The Commissioner of Burdwan writes:—

"The second general elections took place during the year under report and new Boards were formed before its close in every district except Midnapore, where the number of members was reduced and the issue of the necessary revised Government notifications took up much time. The elections were, as a rule, successfully conducted, and, with a very few exceptions, fairly suitable and representative members were elected. The pleader element was, perhaps, considering the amount of landed property they possess, disproportionately successful. The educated classes took considerable interest in the elections, but in no case was any general public interest or enthusiasm evoked.

"The elections only failed in one thannah of Burdwan, three of Hooghly, and in one of Beerbhoom. The failures were due in one case to the absence of voters, and in the three others to the absence of timely nominations * * * * *

"The inhabitants of thannahs remote from the head-quarters of districts appear to take more interest in the election of representatives than the urban and semi-urban population."

The Commissioner of the Presidency Division writes:—

"The second general elections took place during the year under report, and new Local Boards were formed in every district before the close of the year. The new District Boards, however, were not constituted till after the close of the year. The elections were on the whole successfully conducted, and, with a few exceptions, fairly suitable and representative members were elected.

"In Jessore and Khulna there was no failure of election in any of the thannahs. In the 24-Pergunnahs there were no elections held in thannah Canning (Sudder) or Harwa (Bussirhat), and out of two and four members for election in thannahs Hasnabad and Dum-Dum respectively, only one was elected for each thannah. In Nuddea the elections failed in thannah Chapra in the Sudder, as 10 per cent. of the registered voters were not present, and in thannahs Gangni and Tehatta in the Meherpore sub-division, as the electors failed to nominate candidates under Rules 28 and 29. In Moorshedabad there were no elections in thannahs Sujagunge, Gorabazar, Doulatabad, Nowada, and Barna in the Sudder sub-division, Sagardighi, Assanpore, Manullabazar, and Shahnagur in the Lalbag sub-division, and Kandi and Khurgram in the Kandi sub-division, in consequence of the omission of the electors to nominate candidates beforehand under Rule 29 All these vacancies were therefore filled up by appointment under section 10 of the Local Self-Government Act."

The Commissioner of Rajshahye states:—

"A general election of members for the Local Boards took place in Rajshahye in December and in Pubna in September last.

"The Magistrate of Rajshahye, who was present at thannahs Puttea, Charghat, Beauleah, and Godagari, states that at each of these places the voters displayed the greatest interest in the proceedings. A Deputy Magistrate was present at Bagmara, and he reports that the voters were animated by the greatest enthusiasm in securing the election of their candidates. The Sub-divisional Officer of Nowgong and the Sub-Deputy Collector of that place, who were present at the thannahs of Nowgong Local Board, state that the voters elected the members with shouts of acclamation and manifestation of the greatest delight.

"The Chairman of the Pubna District Board writes that the dates for the elections having fallen at a season when the flood was at its highest (and the floods of the year were higher than any within recent years), the attendance of the voters was not so large as it would have otherwise been.

"On the whole it appears that a very fair amount of interest was taken in the elections."

The Commissioner of Dacca remarks—

"The second general election of the members of the several Local Boards in the districts of Dacca and Furreedpore was held in the latter part of September 1889.

"It is satisfactory to note that in no case did the elections fail owing to the non-attendance of a sufficient number of voters. In Dacca it is reported that the electors generally displayed considerable interest in the proceedings, and that in several thannahs the excitement was great and the elections were warmly contested. In Furreedpore the paucity of attendance at the

polling stations, specially in those of Bhanga, Baliakandi, Palong, and Kotalipara, is attributed to the unusually heavy floods of last year which prevented many voters from attending."

The Commissioner of Patna writes—

"The Patna District Board completed its three years' term in September 1889; and although arrangements for its reconstitution were commenced early, the new Board, which consists of 24 members, composed of the official and non-official Europeans and Natives in the same proportion as its predecessor, did not assemble till 10th March. The Local Board elections which were held in the Patna District were fairly successful. Out of 28, the total number of members to be elected, 23 were elected, leaving only 5 to be appointed by Government."

Meetings of Boards.

7. Taken together, the total number of meetings held by District Boards was 448, giving an average of 11·79 meetings for each Board. The greatest number of meetings was held in Dinagepore (18), Tipperah (18), Sarun (18), Burdwan (17), Gya (17), Furreedpore (16), and Durbhunga (16), while the least number was held in Hooghly (8), Mymensingh (8), Mozufferpore (8), Chumparun (8), Nuddea (7), Moorshedabad (7), Julpigoree (7), and Jessore (6). Except in the case of Hooghly and Mymensingh, no reason is assigned for the small number of meetings. In regard to Hooghly it is said that, "on the introduction of local self-government three years ago, the members had to meet oftener to consider many important questions of principle which presented themselves for solution, but that matters have since settled into a groove and that fewer meetings had therefore to be called during the year under report than during the two preceding years." In Mymensingh it is stated that "the attention of the Chairman and the other members was devoted more to the execution of the heavy amount of real work done during the year than to taking part in the discussions in the meetings." The Lieutenant-Governor cannot accept either of these reasons as satisfactory, and invites attention to the following remarks recorded by the Commissioner of Burdwan, which are entirely in accordance with the views of Government on this subject:—

"It is difficult to believe that all the business of the various departments now under the control of the District and Local Boards can be transacted in less than 12 meetings during the year. Much of the routine work is no doubt done by the Chairman and Vice-Chairman by the express or implied consent of the Boards; much, too, depends on the individuality of these two officers. But, all things considered, one meeting every month ought to be the minimum number consistently with an intelligent interest in their work on the part of the members. There is, I fear, considerable general truth in the remark made by the Chairman of the Raneegunge Local Board to the effect that, unless matters come before the Board in which the members are directly and personally interested, it is hopeless to expect them to attend regularly. A self-denying public spirit is one of the elements requisite to make local self-government a success in this country."

8. The average attendance at meetings of District Boards was 8·98, the average percentage of attendance being 42·82. The attendance was best in Howrah and Tipperah, amounting to 65 and 62·7 respectively, and worst in Cuttack, where it was only 19·8. In the last-named district six meetings were adjourned for want of a quorum out of 12 convened.

9. The total number of meetings held by all the Local Boards was 788, the average for each being 7·43. Only 8 of the Local Boards held more than 12 meetings, the highest number attained being 15 in Bhubooah. Six of the Boards held 12 meetings, and the rest less than 12 meetings. The Howrah Local Board held only two meetings, while the Local Boards of Beauleah, Nowgong, and Nattore met only once during the year. For all practical purposes, therefore, these Boards did not exist. The average attendance at meetings of Local Boards was 5·69, and the average percentage of attendance was 50·13.

Powers of Local Boards.

10. In most districts Local Boards have been entrusted with the administration of the grants for village roads, pounds, ferries, and primary education. In some instances powers relating to water-supply, the grant of rewards for the destruction of noxious animals, and the management and supervision of grant-in-aid and Boards' middle English schools have also been delegated to them.

Union Committees.

11. No Union Committees have yet been appointed, but a scheme for their gradual establishment has been submitted to the Government of India, and is still under consideration.

Financial results.

12. The following statement, which is abstracted from Forms II and III appended to this Resolution, shows the principal items of income and expenditure of District Boards during the year under review :—

	Income.		Rs.
I.	Land Revenue	...	15,945
VI.	Provincial rates	...	34,32,574
XII.	Interest ...	...	609
XVII.	Pounds ...	...	3,94,594
XIX.	Education ...	...	30,561
XX.	Medical ...	...	7,625
XXI.	Scientific and other minor departments	...	1,648
XXV.	Miscellaneous ...	...	1,39,874
XXXII.	Ferries, &c. ...	...	3,28,314
	Contributions ...	...	11,02,398
	Debt ...	...	8,19,261
	Total	...	62,73,403

	Expenditure.		Rs.
1.	Refunds ...	...	13,601
18.	Administration ...	...	2,58,533
20.	Pounds ...	...	23,589
22.	Education ...	...	10,04,140
24.	Medical ...	...	42,546
26.	Scientific and other minor departments ...	...	5,219
29.	Superannuation allowances and pensions ...	...	1,209
30.	Stationery and printing ...		48,057
32.	Miscellaneous ...	...	43,365
33.	Famine relief ...	...	2,59,967
43.	Minor works and navigation		4,373
45.	Civil works ...	...	38,42,381
	Debt ...	...	6,25,260
	Total	...	61,72,240

The names of the above headings are taken from the forms prescribed by the Government of India which are appended to this Resolution, with the exception that the words "Pounds" and "Ferries" are substituted for "Police" and "Civil Works" under Income, and the word "Pounds" for "Police" on the Expenditure side of the accounts. These changes have been made because it should be clearly understood that the Police have no concern with, and have no responsibility for, the administration of pounds, which are entirely under District Boards; while the heading "Civil Works" would be misleading when the item concerned almost exclusively relates to ferry receipts. It should be explained also that though the name of the heading "Provincial Rates" has not been altered, the income shown under this head is derived from a "local rate" or cess which is entirely appropriated and spent within the district where it is realised, and that the Road cess is not a provincial rate in the sense in which the Public Works Cess, which is a provincial asset, may be properly so described.

Credit balances.

13. The year 1888-89 closed with a credit balance of Rs. 18,28,843 (corrected figures): at the close of the year 1889-90 this balance was increased to Rs. 19,30,006.

Income.

Land Revenue.

14. Of the total income under this head Rs. 9,365 represent canal tolls realized in Chittagong and the balance sale proceeds of trees, grass, &c. Compared with the previous year, the Chittagong canal revenue shows a falling off to the extent of Rs. 2,213.

Provincial rates.

15. The entire amount, Rs. 34,32,574, under this head represents the balance of the receipts of the District Road Cess which is credited to District Boards after deducting the cost of collection and revaluation. Compared with the previous year, there was an increase of Rs. 78,704 in the income derived from this source, and this item may be expected to increase slowly but surely in consequence of the revaluations which from time to time are effected in all districts. The largest increase during the past year was in Burdwan and Gya, from Rs. 1,02,826 and Rs. 1,76,014 in 1888-89 to Rs. 1,36,865 and Rs. 1,97,198 respectively.

Pounds.

16. The total receipts from pounds under the Cattle Trespass Act, amounting to Rs. 3,94,594 only, show a net decrease of Rs. 37,321 as compared with the collections of 1888-89, and a decrease of Rs. 25,559 as compared with the estimate (Rs. 4,20,153) on which the Provincial adjustments with District Boards were based. The decrease is, however, more apparent than real, and is mainly due to a change in the system of accounts. Under recent orders of Government, the security advances, amounting to one quarter's demand, taken from the pound farmers at the time of settlement in March 1890, were credited to the suspense head of

accounts, "Deposits," pending adjustment by transfer from "Deposits" to "Pound rents," whereas in previous years such advances were directly credited to "Pound rents."

It is useless therefore to institute any comparison between the realizations during the past and previous years. The estimate for the current year amounts to Rs. 4,42,441, and there seems no reason to suppose that there is any real falling off in pound receipts In reply to the observation which was made in last year's Resolution that "if Boards are careful to see that security advances are properly taken, and farmers are not permitted to hold on when default occurs, there should be no arrears," it is pointed out by more than one District Board that some farmers, after retaining their pounds during the profitable months of the year, purposely default when the season is over, and that as they have made their profit they are willing to forfeit their security, and that therefore great difficulty is found in settling the pounds for the remainder of the year. This is no doubt a real difficulty, but a remedy appears to lie in the suggestion which is put forward by the Commissioner of the Presidency Division that the payment of pound rents should be fixed not in equal instalments, but according to the different seasons at which crops are liable to damage from cattle trespass. There is a difficulty also in arranging for the proper inspection of pounds. The practice of placing them under the inspection of Educational officers has been definitely forbidden by Government as tending to interfere with the proper inspection of schools. It is observed that in the Shahabad district the District Board have, with the sanction of the Magistrate, introduced a system of inspection of pounds by the Sub-Inspectors of Police. This is no doubt an important duty of the police, who are bound, under the rules in force, to inspect pounds, to see that food and water are properly supplied, to check the accounts and especially to use their utmost endeavours to prevent the dangers of extortion and fraudulent pounding of cattle. But this function is exercised by the police under the orders of the District Superintendent and Magistrate. The police are entirely independent of, and do not act under the authority of, local bodies. What is needed in the interest of District Boards is the systematic inspection of pounds by some responsible officer on their own behalf. It has lately been observed by the Lieutenant-Governor in this connection that such an inspection ought easily to be arranged without additional expense, and that it should result in an expansion of revenue, "for by an examination of the counterfoils, the inspecting officer could readily ascertain from what distance cattle are usually brought to the pounds, and consequently what room there is for the establishment of new pounds, and he could probably also form a shrewd guess whether the rent realized for the pound was a fair one or not." The management of pounds, in regard to which local bodies have now been vested with ample powers, is a good test of the efficiency of the executive administration of District Boards, and it is therefore specially commended by the Lieutenant-Governor to their attention.

Education.

17. The receipts under Education declined from Rs. 33,996 in 1888-89 to Rs. 30,561 in the year under review. The falling off was chiefly in the districts of Chittagong and Monghyr. In Chittagong the figures show a refund of Rs. 230 on account of excess credits in the preceding year. Taking each item of the receipts separately, there was an increase of Rs. 1,610 in "School fees" and of Rs. 327 in "Contributions," and a decrease of Rs. 5,204 under the head of "Miscellaneous."

Medical.

18. The total income under this head fell from Rs. 10,875 in 1888-89 to Rs. 7,625 in 1889-90.

Ferries.

19. Of the several items which constitute the income under "Civil works," ferry receipts, amounting to Rs. 2,84,164, alone call for notice. Compared with the previous year, there was a falling off of Rs. 1,29,706, but the decrease, like that in the case of pounds, is more fictitious than real. In Nuddea there is a nominal decrease from Rs. 10,834 to Rs. 2,460 in consequence of several ferries having been transferred from the Boards' management to Government. In Bogra there is a decrease from Rs. 9,370 to Rs. 1,410, due principally to the erroneous credit in the previous year of the receipts from Government ferries. A similar reason explains the decrease in Chittagong from Rs. 22,069 to Rs. 10,551, in Patna

from Rs. 21,347 to Rs. 14,154, and in Maldah from Rs. 26,121 to Rs. 963. In Shahabad the receipts decreased from Rs. 15,319 to Rs. 3,929; but as Rs. 19,994 were refunded to Government on account of erroneous credit, a loss of Rs. 16,065 is shown under this head, and is due to a great extent to a change in the system in accounts under which advances which were formerly credited direct are now kept under the head of "Deposits." The amount refunded to Government should properly have been shown under the head of "Refunds." In Mozufferpore there is a decrease of Rs. 6,905 as compared with the preceding year, and also a decrease of Rs. 3,802 as compared with the budget estimate. The first-named decrease is due to the rent for the year 1887-88 originally collected by the Magistrate being transferred to the District Fund in 1888-89, which thus unduly swelled the receipts for that year. The falling off from the estimates is attributed to the "bad state of the ferries made over to the District Board and to short collection of rent owing to the falling off of the grain traffic consequent on the failure of the rice crop in the district during the year 1888-89." The marked decrease in Sarun from Rs. 27,721 to Rs. 4,966 is due to adjustment of accounts. There was a large increase in ferry receipts for the previous year, 1888-89, owing to the orders transferring the ferry receipts not having been communicated until after the close of the year 1887-88. The figures therefore showed the receipts of two years in one. In addition to this, the earnest-money for 1889-90 was included in that year's receipts. Of the districts which show an increase, it is necessary only to explain that the considerable increase in Julpigoree, amounting to Rs. 6,884, is due to the fact that all the ferries in this district have now been transferred by Government to the District Board.

Generally speaking, the Lieutenant-Governor considers that the management of ferries by District Boards has not been unsatisfactory. It is impossible to contend against adverse circumstances such as occurred in Bhagulpore, for instance, where the ferry receipts have fallen off, "owing to the extension of the Tirhoot State Railway much of the traffic to and from North Bhagulpore, formerly carried by the district ferries, being now conveyed across the Ganges by the railway steamers." But in all districts where the approaches to the ferries are kept in good order, and the boats employed in the conveyance of passengers and goods are well looked after, it may be expected that facilities for travelling will be improved, and a gradual increase in income be obtained. When grants were made to District Boards to establish equilibrium between receipts and charges, ferry receipts, amounting to Rs. 2,96,076 per annum, were made over by Government to the Boards; and although no proper comparison can be instituted between this amount and the actuals receipts of the past year, there seems no reason to doubt that there has upon the whole been a perceptible improvement in income. The estimate of local officers for the current year amounts to Rs. 3,55,000.

Contributions.

20. The total amount contributed from Provincial funds to District Boards during the year was Rs. 10,98,148, or Rs. 4,37,799 in excess of the previous year, a result which is chiefly due to late adjustments, the Government grants in many cases for two years, and in some instances for three years, having been drawn by the Boards in the year under report. Special orders have lately been passed to avoid the recurrence of such confusion, and the Accountant-General has been instructed to take action on his own authority to place the fixed annual grants at the disposal of each District Board at the beginning of the financial year. The fixed annual grant made by Government to establish equilibrium between the receipts and charges transferred to the management of District Boards, including charges for stationery and forms, but excluding all other special grants, amounts to Rs. 4,14,915. In addition to this a contract grant was made to District Boards, amounting in the past year to Rs. 2,22,924, for the maintenance of Provincial roads, which, under section 74 of the Act, have been transferred to their charge, and grants of Rs. 1,36,728 and Rs. 37,108 respectively were made to the District Boards of Durbhunga and Mozufferpore for expenditure on relief works.

Debt.

21. The entire amount under this head represents "Deposits and advances." Deposits are sums paid by farmers of pounds and ferries as security for payment of revenue, while advances are sums advanced by the Boards for the execution of works, which

are recovered by adjustment of accounts as the works proceed. In some instances security deposits have been taken from contractors for public works the estimated cost of which was less than Rs. 2,000. Compared with the previous year, there was an increase of Rs. 3,80,539 under both Deposits and Advances. This is chiefly due to the security deposits taken from the farmers of pounds and ferries being credited under this head for the year under report, whereas they were in the previous year credited as pound and ferry collections.

Administration.

22. The cost of general administration has increased from Rs. 2,46,732 in 1888-89 to Rs. 2,58,533 in the year under report. Various reasons have been assigned for the increase, but the chief causes appear to be the transfer of the charges on account of the travelling allowance of members of District Boards from "Miscellaneous" to "Administration" and the increase in the percentage cost of audit and treasury establishments. Considerable sums were also expended during the year in the purchase of furniture for offices of District Boards.

Pensions of Local Fund employés.

23. With the sanction of the Government of India, rules have been laid down declaring the general principles regulating the grant of pensions to employés under local bodies. District Boards are required to pay contribution to pension in case of all pensionable Government officers transferred to their service, and liability for payment of these pensions will then be borne by Government. Special rules have been made applicable to cess establishments entertained by Collectors and sanctioned by the Board of Revenue. It is left for the Boards to make rules which must be sanctioned by the Lieutenant-Governor under section 35 of the Act for employés whose whole service has been under them, and draft model rules have been circulated by Government for the convenience and guidance of Boards in such cases. The Lieutenant-Governor is glad to learn that the promulgation of these rules, which have been long under consideration, has been gratefully acknowledged by the employés on Boards' establishments.

Pounds.

24. The charges on account of cattle-pounds show an increase of Rs. 4,906, which is attributed to the change in the system of accounts, the pay of pound clerks being now charged to "Police" or "Pounds" instead of to "Administration" as in previous years.

Education.

25. Compared with the figures of the previous year, the total expenditure under "Education" shows a decrease of Rs. 26,669. Of the total amount expended, Rs. 1,93,847 represent the cost of inspection, Rs. 2,130. Rs. 72,470, and Rs. 4,06,214 the expenditure on training and special schools, middle schools, and primary schools, respectively, Rs. 2,69,117 the amount of grants-in-aid, Rs. 704 scholarships, and Rs. 59,658 miscellaneous charges. The reports furnished by the Commissioners do not all contain the same information. It is impossible, therefore, to show the statistics regarding schools and scholars in a tabular form. The Lieutenant-Governor, however, notices with satisfaction that the number of primary schools and the expenditure generally on primary education increased during the year. In some districts, notably Midnapore, Howrah, the 24-Pergunnahs, and Moorshedabad, there was a falling off owing to scarcity and floods, but this was more than counterbalanced by the increase in other districts. The number of middle schools slightly declined owing in a great measure to the withdrawal of the grants which had been improperly made in some cases from the allotment for primary education.

26. The Lieutenant-Governor considers it desirable to reproduce in this Resolution the remarks he has already recorded on the educational administration of District Boards when reviewing the annual report of the Director of Public Instruction for the year as follows:—

District Boards as controlling agencies.

The educational functions delegated to the District Boards constituted under Act III (B.C.) of 1885 include the management of Government primary and middle schools, the distribution of the grant-in-aid allotment for middle schools under private management, the administration of the primary grant, the conduct of the annual examinations of primary schools for rewards, and the award of lower primary scholarships. The Boards are also authorized to establish and maintain, with the sanction of Government, schools of technical instruction, and some have already taken up this question with interest and energy. The Technical Institute, for example, established by the District Board of Rungpore, has attained considerable success. With the object of defining more clearly the functions of the Boards and their relations to the officers

of the Department, revised educational rules under the Act were under consideration and public criticism during 1889-80, and finally promulgated by Government on the 18th April last. Experience has already shown the new rules to be greatly superior to the old. They give somewhat larger powers to the District Boards than they had previously enjoyed, while any departure from the existing system, in regard to the administration of funds or the control of schools, is made conditional on the sanction of Government. The power of the Inspector and his position as a controlling officer are more clearly defined. In accordance with the views of Government, Deputy Inspectors of Schools have in nearly every district been appointed ex-officio members, not only of the District Boards, but also of the Education Committees to which these bodies have generally delegated their ordinary executive duties. The advantages of this plan are already apparent, co-operation and efficiency having often taken the place of friction and mismanagement. The Lieutenant-Governor has again the pleasure of observing that the relations between the Boards and the Deputy Inspectors in the majority of districts are eminently satisfactory. Government must look to the good offices of the authorities in the Burdwan and Orissa Divisions, in which differences have arisen, to put things straight as soon as possible. On the other hand, there are indications that in some places the education work of the District Boards has been allowed to lapse too much into the hands of the Chairman or Vice-Chairman in his executive capacity. While the Lieutenant-Governor allows that there is some force in the excuse that it is ordinarily not easy to arouse any enthusiasm for educational work, except on such occasions as present opportunities for the exercise of patronage, he desires that the District Boards, through their Education Committees, may be fully consulted in all matters of principle and importance, and that their functions may not be over-ridden by the executive officers. The Director has, in a very proper spirit, as a friendly critic, drawn attention to some shortcomings in the work of certain District Boards. It is through no fault on their part that their educational operations have in some cases been hampered for want of funds, the income from ferries and pounds not having kept pace with their educational requirements. But they must be held responsible for such matters as great delay in the despatch of business, especially in disposing of reward bills and in making up examination results, irregularities in the method of accounting for public money, misapplication of the primary grant, or failure to spend fully the allotments for primary education. These are matters which the District Boards are quite capable of correcting for themselves. It is not a matter for surprise that their control and management of middle schools of various classes is less efficient than when the work was performed by high officers of the Education Department. Sir Alfred Croft rightly observes that this decline in efficiency is part of the necessary price paid for Local Self-Government. The policy of entrusting District Boards with certain educational work, in which the Department has given them its steady support, has been deliberately adopted for reasons which have often been stated, and improvement can only be obtained by perseverance. The transfer of large educational powers to Local, as distinguished from District, Boards appears to have been prematurely attempted in some places.

Special schools.

27. The following information regarding special schools is furnished. In Hooghly there are 56 Sanskrit toles with 268 students. In Bankoora mention is made of six advanced Arabic or Persian schools with 102 and of 33 Sanskrit toles with 331 pupils. In Rungpore the Bayley Technical School is maintained by the District Board. In Backergunge it is in contemplation to start a technical school for teaching carpentry, &c., at the head-quarters of the district. The Board have also voted two scholarships of Rs. 10 each, tenable in the Seebpore Engineering College. In Mymensing, one of the zemindars is said to have offered Rs. 10,000 for opening a technical school in addition to an annual contribution to be made for its maintenance by the District Board, and the matter is under consideration. The Tipperah Board has founded two scholarships of Rs. 15 each, tenable at the technical branch of the Seebpore Engineering College, and these have been awarded to two natives of the district now pursuing their studies in that college on their contracting to serve under the District Board after the completion of their college career. The Chairman further reports that an attempt is being made to establish an artizan school in Comillah under the auspices of the District Board. The Noakholly Board have offered a scholarship of Rs. 10 at the same college, tenable for five years, but apparently no applications have been made for it. It is satisfactory to see from these reports that District Boards have begun to recognise the desirability of encouraging technical education.

Female Medical Education.

28. The question of providing means for the encouragement of female medical education continued to receive the attention of District Boards. The medical scholarship of Rs. 10 a month offered by the Midnapore District Board was awarded to Sarat Kumari Mittra, a female student of the Campbell Medical School at Calcutta, and she has drawn the stipend since April

1889. The Superintendent of the School speaks favourably of the progress made by her. In Burdwan a sum of Rs. 20 per mensem was set apart for a similar scholarship, and in Bankoora the Board sanctioned the award of a scholarship of Rs. 8 to any female candidate of that district who would be willing to prosecute her studies in any medical school or college, but it appears that no one came forward to take advantage of these offers. The District Board of the 24-Pergunnahs have sanctioned the grant of scholarships of Rs. 5 each a month for two years to two female students of the Campbell Medical School—Srimati Kiron Sasi Mukherjea and Srimati Susila Debi—with effect from the 1st February 1890. Funds were provided by almost all the District Boards in the Rajshahye Division, but no advantage was taken of the opportunities offered. In Rungpore only a scholarship of Rs. 15 per month has been awarded to one Srimati Kailas Bashini Dasi, a student of the Calcutta Female Medical School, who has agreed to practise in the district when qualified. The only district in the Dacca Division where stipends or scholarships were sanctioned by the District Board is Backergunge, where two girls of Brahmo parentage were awarded scholarships of Rs. 10 a month each, tenable in the Campbell Medical School. The District Board, Mymensingh, has, with a view to encourage female medical education, created five appointments of trained nurses under the five Local Boards with a monthly salary or retaining fee of Rs. 25 each. Both Chittagong and Tipperah report that attempts were made to get female students to go to Calcutta for medical education, but no one would come forward. The offer made by the Tipperah Board was for two scholarships of Rs. 15 each, tenable at the Scaldah Campbell Medical School. The Chairman of Tipperah reports that subscriptions are being collected to form an endowment for the establishment of a lady doctor in Comillah, and it is hoped, if this is successful, that it will induce female students to qualify for service in this special branch. In Gya a system of stipends and scholarships for a supply of female native doctors and of trained nurses has been organized during the year, consisting of a midwife, four paid female apprentices, and one mehterani. The monthly expenditure on account of pay of this staff amounts to Rs. 49. The total amount of expenditure incurred during the year, including pay, contingencies, and cost of furniture, &c., was Rs. 1,514-1-9. For the encouragement of female medical candidates who attend the Cuttack Medical School the Cuttack District Board has contributed Rs. 100, to be paid as scholarship to the most deserving female student.

The Lieutenant-Governor has perused this record of the measures adopted by District Boards with much satisfaction, and although the results are not as encouraging as might have been expected, he trusts that the Boards will continue to persevere in this good work, and that the time will come when the fullest advantage will be taken of the opportunities offered to female medical students.

Medical.

29. The total medical expenditure amounts to Rs. 42,546, and shows an increase of Rs. 16,771 compared with the previous year. The outlay on hospitals and dispensaries amounts to Rs. 30,430, and on sanitation to Rs. 8,756 only.

The following statement shows the number of dispensaries maintained by the District Boards and the expenditure incurred during the year:—

District Boards.	Names of dispensaries.	Cost of maintenance.	Remarks.
		Rs.	
Burdwan ...	Mankar ...	472	Government gave a grant of Rs. 150 as half the pay of the Civil Hospital Assistant in charge. The Board also realised Rs. 206 as private subscriptions.
Hooghly ...	Bundipore ...	390	For nine months only. The Board severed its connection with the dispensary on 1st January 1890.
Jessore ...	Jhenidah ...	933	
	Magurah ...		
Khoolna ...	Bagirhat ...	542	
Dinagepore ...	Thakurgaon ...	751	
Bogra ...	Dupchanchea ...	480	
	Burigunge ...	474	
	Joypore ...	450	

District Boards.	Names of dispensaries.	Cost of maintenance.	Remarks.
		Rs.	
Tipperah ...	Chandpore ...	830	
Gya ...	Jehanabad ...	616	Includes the cost of repairing dispensary buildings and cost of vaccination.
	Aurungabad ...	1,044	
	Nowadah ...	536	
	Arwal ...	.....	Established in 1889-90, but no expenditure incurred during the year.
Sarun ...	Mushruk ...	796	
	Digwarah ...	643	
	Maharajgunge .	1,061	
	Darowli ..	1,078	
Bhagulpore ...	Banka ...	1,601	These figures do not tally with those entered in the annual return.
	Mudehpura ...	670	
	Soopool ...	546	
	Protabgunge ...	780	
	Shahpur ..	303	
Purneah ...	Basantpur ...	471	
Pooree ...	Khoorda ..	610	
Balasore ...	Bhuddruck ...	2,208	

Besides the above expenditure, many of the District Boards contributed towards the support of medical institutions which were not under their direct management, and in some instances money was spent in affording medical relief during epidemics. The Burdwan District Board paid Rs. 600 to the support of the municipal dispensary in the town of Burdwan and the Bankoora Board Rs. 1,000 for the maintenance of the dispensary at Bankoora. The Beerbhoom District Board expended Rs. 1,471 in maintaining the Soory Charitable Dispensary for the first ten months, and half the net cost for the remaining two months of the year. This Board also contributed Rs. 360 to the Rampur Hât Dispensary. The Midnapore District Board gave a total sum of Rs. 942 in aid of nine dispensaries in that district. The Nuddea District Board gave Rs. 100 in aid of the Krishnaghur Charitable Dispensary. The District Board of Rungpore gave a quarterly subsidy of Rs. 75 to each of the three dispensaries of Kurigram, Gaibanda, and Nelphamari in that district. The District Board of Pubna gave a contribution of Rs. 250 towards increasing the accommodation of the Serajgunge charitable dispensary. In Dacca the District Board made a grant of Rs. 60 to the dispensary at Manickgunge. In Backergunge a sum of Rs. 1,200 was paid to the Barisal Municipality for the maintenance of the charitable dispensary. In Mymensingh the payment of Rs. 60 per annum to the Nasirabad Municipality was continued during the year. The Tipperah District Board contributed Rs. 150 and Rs. 600 respectively to the Hajigunge and Comillah Dispensaries. The Chittagong Board has arranged to engage a lady doctor, in connection with the Chittagong Municipal Hospital, to attend all female patients free of charge. The Shahabad District Board gave Rs. 275 towards the support of the Nasirgunge Dispensary. The District Boards of Patna, Shahabad, and Sarun spent Rs. 4,723 on sanitation and medical relief. A monthly contribution of Rs. 130 and Rs. 50 was paid by the Monghyr District Board to the dispensaries situated at the head-quarters of the district and the sub-division of Begusarai. The Maldah District Board paid a subscription of Rs. 75 a month to a class IIIB dispensary opened in February last at Mathurapur by Mr. G. Hennessy.

30. Form IV appended to this Resolution contains particulars regarding sanitary works undertaken by District Boards during the year it is stated that in Jessore Rs. 10,000, in Burdwan Rs. 5,000, in the 24-Pergunnahs Rs. 2,000, and in Khulna Rs. 2,000 were allotted for the supply of pure drinking water, but that nothing was spent. The Chairman of the 24-Pergunnahs District Board observes :—

Sanitation.

"The question of water-supply is involved in difficulty. The want of good water is felt all over the country, and applications for the excavation or re-excavation of tanks are made to the District Board from time to time, but the Board find it difficult to comply with such applications. The selection of a few solitary villages for such improvement would appear invidious and might excite discontent in parts of the district which were not selected. Moreover, if a tank were cleared or re-excavated, it would seldom be possible

to secure its preservation or to guard it effectively from all external impurities. A provision of Rs. 2,000 was made in the budget for the last three years, but the amount was not expended, as no scheme of water-supply could be devised which would admit of being carried out with such a small grant."

The explanation given in other districts is of a similar character. The total expenditure incurred under this head in the whole of Bengal was only Rs. 8,756 on account of sanitary arrangements at fairs, and in some places in the excavation of wells and tanks. The result is no doubt of a very unsatisfactory character; but as was pointed out in last year's Resolution without the appointment of local agencies specially entrusted with matters relating to village sanitation and empowered to raise the necessary funds, very little improvement can be expected in this direction. A special report in which this question has been fully discussed has been submitted to the Government of India, and the whole question is now under the consideration of that Government.

Miscellaneous.

31. The expenditure under this head is necessarily of a fluctuating character. An additional charge incurred during the year was the cost on account of the general elections. In some districts this charge has been shown under "Administration," whereas it should have come under "Miscellaneous." The necessary transfers should be made when the accounts are audited and adjusted. The expenditure on account of staging bungalows and serais increased from Rs. 12,840 in 1888-89 to Rs. 14,615 in the year under report. There was also an increase of Rs. 116 in the amount of rewards granted for the destruction of wild animals. The district in which the largest amount of rewards was granted was Rungpore, where, it is said, the District Board paid Rs. 484 for the destruction of 15 tigers, 50 leopards, and 12 cubs.

Famine relief.

32. The total expenditure shown under the head of famine relief amounts to Rs. 2,59,785, the greater part of which was incurred in the districts of Durbhunga (Rs. 1,69,065) and Mozufferpore (Rs. 74,289). The whole outlay was on public works.

With a view to the equitable adjustment of the contribution to be made by Government and the District Boards respectively towards the famine relief expenditure in the affected areas of the Patna Division, it was decided in August 1889 to divide the expenditure into three classes, viz.—

Class I.—Ordinary district works which the District Boards would in any ordinary year have carried out in the affected area, and for which therefore they made no claim on Government for reimbursement.

Class II.—District works undertaken by the Boards as measures of relief, and to be paid for by them.

Class III.—Other relief works, whether carried out by the District Boards or by Government, the cost of which the Districts Boards were unable to bear, and gratuitous relief.

This division recognised distinctly the principle which has been laid down, that the duty of providing relief in the way of work must fall in the first place on local funds before provincial funds can be applied, and that Government should come to the assistance of District Boards only when the expenditure is heavier than they can reasonably be expected to bear consistently with their duties in the non-affected areas the maintenance and repairs of the ordinary district communications and the pay of the permanent establishments.

Under section 99 of the Local Self-Government Act III (B.C.) of 1885, District Boards are empowered to incur expenditure on measures for the relief of famine within such financial limits as may be prescribed by the Commissioner of the Division concerned, and the Bengal Famine Code provides that in districts to which this section of the Act has been extended, relief operations should be governed by rules to be issued under section 138. The provisions of section 99 of the Act have now been extended to all the District Boards of the Province, and rules under section 138 have been prepared and issued for their guidance.

Civil works.

33. The expenditure under the head of "Civil works in charge of Public Works officers" increased by Rs. 2,66,678. It must be explained that the expression Public Works officer does not mean an officer in the Public Works Department of Government, and that the whole of the Civil works referred to were undertaken by Engineers in

the employment of District Boards. The expression is used in the prescribed form of accounts in order to show separately the expenditure on Public Works proper from that incurred on account of ferry establishments, contingencies and refunds, which are considered to be in charge of Civil officers, and amounted in the past year to Rs. 1,10,162. The following statement compares the Public Works expenditure for the past three years:—

Year.	Original works.	Repairs.	Establishment.	Tools and plant.	Water-supply and water-works.	Drainage works.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1887-88	10,72,715	16,04,900	5,20,594	30,225	4,534	.....	32,32,968
1888-89	11,15,614	17,88,953	5,27,598	27,115	6,261	.....	34,65,541
1889-90	11,71,942	19,43,732	5,57,345	32,893	20,960	5,347	37,32,219

Out of a total outlay of Rs. 37,32,219, no less than Rs. 2,22,924 was defrayed from grants paid to the District Boards from Provincial Revenues as a contract allowance for the maintenance of provincial roads, the charge of which has by arrangement been transferred from the Public Works Department of Government to local bodies. The remainder, or Rs. 35,09,295, represents the expenditure incurred from road cess funds. This amount during the past year was exceptionally large, as a considerable outlay was debited in several districts to Civil works which might more properly have been charged against Famine Relief. A sum of Rs. 10,785 in the Bhagulpore district, of Rs. 6,445 in the 24-Pergunnahs' and of Rs. 2,000 in Purneah appears to have been so debited. But the line which separates these heads of account is too slight to render it necessary to order any adjustment. The Lieutenant-Governor regrets that the information furnished is insufficient to enable a comparative statement to be prepared showing the length of roads maintained by District Boards, metalled and unmetalled, and their cost per mile. Separate orders will issue on this point, prescribing a form of statement for adoption in future years.

In the districts marginally noted a considerable expenditure was incurred on original works. The most important of these was the construction of the new Tangail road from Phulbariah to Kalihati, 26 miles in length, on which the District Board of Mymensingh spent no less than Rs. 63,000. As a rule the expenditure on original works is largest in the Patna Division and smallest in the Presidency, where the most striking feature of the figures is the small proportion of funds spent on original works compared with that spent on maintenance and establishment. Repairs were of the usual character, and do not call for remarks. The Provincial roads transferred to the management of District Boards were on the whole maintained in good condition.

	Expenditure incurred on original works during the year.
	Rs.
Midnapore ...	31,814
Dinagepore ...	40,803
Rungpore ...	60,806
Julpigoree ...	59,422
Dacca ...	35,400
Furreedpore ...	27,216
Backergunge ...	53,366
Mymensing ...	1,63,639
Tipperah ...	30,774
Patna ...	96,253
Gya ...	57,154
Durbhunga ...	65,392
Mozufferpore ...	52,368
Sarun ...	62,289

Village roads.

34. The total amount expended by District Boards (except Mozufferpore, for which no figures have been furnished) on the construction and repair of village roads during the year was Rs. 3,68,952. In the case of Burdwan it is explained that the whole of the grant remained unexpended because money had been misspent in past years, and it was therefore thought advisable to defer spending any money on village roads until a system of proper management and supervision could be devised. This explanation cannot, however, be accepted as satisfactory. The views of the Lieutenant-Governor on this subject were fully expressed in last year's Resolution. District Engineers have recently been authorised by an amended rule to look after the working of the road establishments employed under Local Boards; and although it is true that under a lax system the expenditure on village roads by Local Boards is liable to abuse, there ought to be no difficulty in checking any misuse of the funds allotted for this purpose if the roads are properly scheduled and subjected to professional scrutiny.

Railway feeders.

35. The railway feeder from Haripal to Bhanderbatti, a distance of about six miles in the district of Hooghly, was under construction during the year, and will, it is expected, be soon thrown open to traffic. Another feeder, about two miles in length, from the Grand Trunk Road to the railway station at Galsee, in the Burdwan district, was sanctioned, but owing to delay in land acquisition the work was not commenced.

In Nuddea a small feeder from the Majergram railway station to Majergram village was constructed during the year.

The important feeder road from Gaibanda in the Rungpore district to Hilli station, Northern Bengal State Railway, in the Dinagepore district, was improved by the District Boards of Dinagepore, Bogra, and Rungpore.

In Dacca a railway feeder road connecting the Sripore station with Goshinga, an important market on the Lakhye river, was continued, the outlay amounting to Rs. 2,488. Rajah Rajendra Narain Rai Bahadur, of Bhowal, has given free of cost as much of his land as is required for the road.

The Monghyr District Board undertook during the last year the metalling of the following railway feeder roads:—

(1) Dhararah to Lahota Road, which forms a feeder of the East Indian Railway Station at Dhararah.
(2) Beguserai to Garrah Road, which forms a feeder to the Tirhoot State Railway.
(3) A portion of the Patna Road between Indupore and Burhea Railway Station, which will be a continuation of the Burhea feeder road.

In the district of Bhagulpore an important railway feeder was constructed to join the Rughoopur Station on the Tirhoot State Railway with Simrahi and Panchpararia near the Nepal frontier. The road from Madhepura to Rughoopur is being bridged, and this will bring the sub-divisional head-quarters within 25 miles of the Rughoopur Station.

Tramways.

37. Several proposals for the construction of tramways came under the consideration of District Boards during the year, but no work was actually undertaken. The Howrah-Ampta and Howrah-Sheeakhalla schemes which are intended to facilitate communication between the districts of Howrah and Hooghly, are now under consideration in the Public Works Department. The Dooars Tramway line, for which the Julpigoree District Board has guaranteed Rs. 4,000 annually until the scheme returns 6 per cent. profit, has been undertaken by Messrs. Octavius Steel and Company. Negotiations were opened by the District Board of Patna with certain engineering firms for the construction of a steam tramway on the line of road between Bukhtearpore and Behar. The construction of steam tramways on the Gaya-Nowada Road in the Gaya district and on the Ganges and Darjeeling Road between Purneah and Kissengunge are also under consideration.

Water communications.

39. In many districts expenditure is incurred in the maintenance of water communications as well as roads; but the small items on which money was spent are not of sufficient importance to enumerate in detail.

Steam river service.

38. The following particulars are recorded regarding the services of steam river communications which were either subsidised or undertaken by District Boards during the year.

The steamer service between Rampore Beauleah and Damukdea has been made a daily one, and the Rajshahye District Board increased the subsidy from Rs. 2,400 to Rs. 4,800 per year. A daily steamer service between Pubna and Kushtea was again established from the middle of June, the Pubna District Board paying a subsidy of Rs. 5,200 per year towards its maintenance. The steam ferry between Naraingunge and Munshigunge was taken over from the Traffic Department of the Eastern Bengal State Railway and managed by the District Board. The ferry was worked at a loss of Rs. 1,284, but it was of great benefit to the public. In Backergunge the daily steamer service between Barisal and Khulna was continued, and was of great advantage to the district throughout the year. The Board paid the usual subsidy of Rs. 500 per mensem, minus certain deductions for late arrivals.

The District Board of Noakholly pays a monthly subsidy of Rs. 200 for a bi-weekly steam service with Barrisal. The Tipperah Board has secured the establishment of a daily steamer service between Gouripura and Naraingunge *viâ* Satnal, a station on the Goalundo-Naraingunge line. During three months of the year the want of water prevents the steamer proceeding further than Dandkundi, 32 miles by road from Comillah, but two boats are engaged at a monthly cost of Rs. 30 to run between Elliotgunge, 21 miles from Comillah, and the steamer station. A similar boat arrangement has been made at the same cost between Muradnagar and the steamer station. The Board pay a monthly subsidy of Rs. 200 to Messrs. Kilburn and Company for the steam service, and receive Rs. 100 from the Postal Department for the carriage of mails between Daudkandy and Satnal. The Board also subsidised a steam service at Rs. 225 a month between Chandpore and Chandipore, but the company which undertook the work closed it after a short trial, apparently finding it unprofitable.

The Chairman of the Maldah District Board writes:—

"Early in July through communication by water was established with Rajmehal, and a steamer ran to and fro on alternate days, the distance *viâ* the Kalindri being about 60 miles. This service was furnished by Baboo Nilmoney Chowdhuri. Later on in August the ferry steamer *Jack*, which had been put on the ferry at Rajmehal by the farmer, Baboo Seo Sahai Singh, was allowed to continue the crossing to Inaitpore and Sadullapore *viâ* the Bhagirathi, as the whole country was under water. Sadullapore is about five miles west of English Bazar, and the steamer ran in and out in one day. To Nilmoney Chowdhuri a subsidy of Rs. 400 a month was paid, but no payment was made to the ferry farmer for the trip to Sadullapore. The steamer between English Bazar and Rampore Beauleah made three trips in the week from August 1889 to March 1890, and also received a subsidy of Rs. 400 a month from 1st October 1889. At first Nilmoney Chowdhuri tried to run this line, but his steamers were too small, and ran so irregularly that no subsidy was granted. In October the India General Steam Navigation Company sent up a splendid steamer, called the *Pirih*, which ran till the river subsided in November. The service, however, was kept up till March by a smaller vessel, and a subsidy of Rs. 400 a month was granted. Since June this year a fine steamer, called the *Trout*, has been plying regularly on alternate days. She is timed on Saturdays to catch the mail boat from Beauleah to Sara, thus enabling Maldah passengers to reach Calcutta next morning."

The Lieutenant-Governor has no doubt that the expenditure incurred by District Boards in establishing or subsidising a river steam service is most judicious and has greatly improved communications.

Establishments.

39. The average percentage of cost of establishment on the total outlay on public works during the year was 16·4. The highest percentage was in Chittagong and the lowest in Mymensingh, the figures being 28·4 and 9·1 respectively.

The establishments are reported to have worked satisfactorily during the year.

Loans.

40. No loans were contracted during the year under report, but the Lieutenant-Governor has agreed to grant a loan of two lakhs to the District Board of Dinagepore and Rs. 25,000 to the Julpigoree Board for the construction of bridges on district roads, and since the close of the year has signified his intention to sanction a loan of Rs. 80,000 to the Patna District Board to complete the construction of bridges on the roads from Buktearpore to Behar and from Mosourhi to Tabhera. The restriction referred to in last year's resolution, regarding the class of works for which Boards are empowered to borrow from the Local Government, has now been removed by the Government of India, and the Lieutenant-Governor hopes that District Boards will not hesitate to apply to Government for loans on account of well-considered schemes for the permanent improvement of the communications and general sanitary condition of their districts.

General Remarks.

41. The following are the observations recorded by the Commissioners in their reports on the working of District and Local Boards during the year.

Mr. Toynbee, the Officiating Commissioner of Burdwan writes:—

"On the whole, I am of opinion that both the District and Local Boards have done good work during the year. Now that complete sets of rules have been framed, and the routine work has begun to settle down into a grove, I think that the next step to be taken is to gradually withdraw the appointment of official Chairman. I would not at first allow the members of District Boards to elect their own Chairman, but they might nominate them, and

the District Magistrates in forwarding the nomination might report fully on the business and other qualifications of the nominees. The experiment might for the present be tried in Hooghly and Burdwan. If successful, it should be afterwards extended to other districts in this division. In making this recommendation, I do so on the assumption that the principles of local self-government have been finally accepted as the policy of the future, and that every possible step to that end is to be taken which is consistent with caution and a due regard for the interests of the general public."

Mr. Smith, the Commissioner of the Presidency Division, states:—

"The District Boards have, on the whole, worked smoothly and successfully during the year. The members generally have evinced much interest in the proceedings. The average attendance has been generally a little under half, and has in no case been quite half the number. The average is bad in Jessore, where it was but 30·64 per cent. The largest number of meetings was 13 in the 24-Pergunnahs, and the smallest, 6 in Jessore. In considering these points, however, the great distances from which many of the members have to come must not be overlooked, and I do not think the result is on the whole unsatisfactory, though I should be glad to see improvement, especially in Jessore."

Mr. Lowis, the Commissioner of the Rajshahye Division, says:—

"The District Boards on the whole have worked well, but depend a good deal on the official Chairmen. This is less the case in Pubna, where both District and Local Boards show rather more independence."

Mr. Power, the Officiating Commissioner of the Dacca Division, gives the opinion of Mr. Hare, the Chairman of the Dacca District Board, that "the Act has worked without difficulty;" and quotes the remarks of Mr. Savage, the Chairman of the Backergunge District Board, as follows:—

"The several Boards in the district have done good work, and the members have taken a great deal of interest in the transaction of business brought before them. The Local Boards have been able to open out village roads without having to acquire any land for the purpose, and the intercommunications have been much improved. There has been harmony among the members of the Board, and on the whole I am able to report that Local Self-Government tends to be a success in this district."

Mr. Power briefly records his own opinion in the following words:—

"On the whole the year was one of fair progress."

Mr. Lyall, the Commissioner of Chittagong, makes the following report:—

"The Inspector of Local Works detected the second clerk of the Chittagong Board in malpractices in connection with contracts, but the majority of the Board refused to punish him or take any notice of his conduct. In fact the majority made a personal in place of a public matter of it. Such cases must, I fear, occur at times, and there is no remedy. The more prompt settlement of advances requires attention in this district. The money has been properly spent, but the members who supervise the works are slow in rendering accounts.

"In Noakholly the accounts require attention. They were found very carelessly kept at time of audit. The Chairman ascribes the errors to change of staff. Good work was, however, done in the district. The present Chairman has fully grasped the wants of the district, and considerable improvement may be effected next year.

"The Tipperah Board have taken great interest in their work, and are devoting their attention to improvements in a sanitary direction, and to the provision of increased medical aid in outlying parts.

"The Board have reduced their expenditure on middle schools, but this is a point on which all District Boards require watching, else money which should be spent on roads and communications will be spent on education.

Mr. Kemble, Officiating Commissioner of Patna, writes:—

"All the district officers have expressed an opinion that the members of the District Boards have worked satisfactorily on the whole and in harmony with the executive. Much interest is said to have been manifested by all the members of the Boards in all the districts except Chumparun, in respect to which Mr. Blyth writes:—

"'The general working of the District Board during the year may be regarded as satisfactory, but all the members did not take that amount of interest which might be expected, and the submission of the monthly accounts was often delayed in consequence of their not being regularly audited by the Finance Committee for the want of the attendance of a sufficient number of members to form a quorum.'

"All the District Boards have Standing Committees for the disposal of business. In Patna, Mozufferpore, and Durbhanga especially the members of these Committees are said to have rendered great help to the Boards in auditing accounts, supervising the plans and estimates of the District Engineer, looking after schools, and generally in disposing of the matters laid before them.

"The Local Boards as a rule are said to take but little interest in their work. From Shahabad Mr. Bernard reports that these bodies fail to do full justice to the matters transferred and to the funds allotted to them, some of them leaving large sums unexpended under some heads, especially Sanitation.

"In the Patna district it is reported that the Sudder Local Board showed the greatest amount of activity, and its efforts were in all directions uniformly successful. The other Local Boards did not work well.

"The Local Boards in Mozufferpore held a very few meetings, and the Mozufferpore Local Board is particularly mentioned as being in a distinctly inefficient condition.

"In Durbhanga it is reported that the Somastipur Local Board is energetic, but the Durbhanga and Madhubani Local Boards are much less so.

"I am glad to note that the Magistrate and Collectors bear testimony to the good work done by their Boards. The good work is, however, more of a consultative than an executive nature. In every district one or two men, Native or European, take an interest in one or more special subjects, but few (if any) have time or inclination to look into the working of the Board as a whole, or to control its finances and to enquire into its general efficiency. The consequence is that, as the Chairman is overworked, too much is left to the Secretary. The accounts, especially those of the Local Boards as shown by the reports of the Examiner, are ill-kept and inadequately supervised."

Mr. Quinn, the Officiating Commissioner of Bhagulpore, states:—

"Having only joined the Division in the middle of March, I have but little personal knowledge of the working of the several local bodies during the past year; but it may be gathered from the general tenor of the district reports and statements that the District and Local Boards have on the whole discharged the duties entrusted to them in a satisfactory manner, and that fair progress has been made in the execution of the works under their control. In the Purneah district there was for some time considerable friction between the native members of the District Board and the Engineer, but these differences have been arranged, and here, as in the other districts of the division, harmony generally prevails. There is still of course ample scope for improvement, and among other defects a tendency has been noticed to leave too much of the business of the district body to standing committees, whose conclusions and recommendations are sometimes adopted without due consideration. There is also a disposition in some cases to increase the expenditure on establishments to an unnecessary extent. An instance of this occurred during the past year, when a District Board persisted in raising the pay of some members of their own office establishment and that of the District Engineer on the recommendation of the Finance Committee, though the increase was held to be quite unnecessary by the Commissioner and Inspector of Works, and as regards the District Engineer's establishment was not recommended by that officer himself. In the case in question, I have informed the Board that the total cost of these establishments is already high, and that no increase of the aggregate charges on account of them will be sanctioned in future years in the absence of very convincing reasons. I trust that this declaration may check the further enhancement of individual salaries.

"The Boards have bestowed considerable attention on education, and there has been a general increase in the number both of schools and scholars, including primary schools, of which the Boards are, I think, entitled to share the credit. The relations between the Boards and the Education Department have also been harmonious; but the Inspector complains of delay in the transaction of business, and specially in passing bills, which he attributes to the delegation of executive work of this kind that can be properly performed by the Chairman or Vice-Chairman to Education and Finance Committees which only meet at intervals. There appears to be need of reform in this respect, in effecting which I have expressed my willingness to give any aid in my power."

Mr. Worsley, the Commissioner of Orissa, says:—

"The Local Self-Government Act has been in operation for a comparatively short time, and the system has not had time to develop fully in all departments. Generally speaking, the administration has been satisfactory. In Cuttack, many of the members of the Boards did not take much interest in their work, and the Magistrate and Chairman of the District Board regrets that the work is carried on more as that of a special department of the Magistrate and Collector than as an independent institution as it should be. The Chairman of the Pooree District Board complains that he finds it very difficult to get the monthly accounts audited by the Financial Sub-Committee. This district shows the best results under the heads of "Roads" and "Education." In spite of the prevalence of cholera in the early part of the year, there has been an increase in the number of primary schools and scholars, while the amount expended on village roads shows a marked increase over the allotment of the preceding year. In Balasore the administration was generally successful. The following are the remarks of the Chairman under this head:—

"The general working of all the Boards has been on the whole satisfactory. There has been little or no inclination to faction or obstruction. Private members, perhaps, come less to the fore than at first, but, as a counterpoise to this, they seem more ready to subordinate their own crotchets to the public good. I am not equally satisfied with the system under which all the roads, pounds, and elementary education were devolved on the Local Boards. This is probably the best course as regards outlying sub-divisions, but in the Sudder it results in a great want of local supervision by those with whom the responsibility nominally rests. Neither the Chairman of the Sudder Local Board nor the Vice-Chairman can ever find time to visit places lying more than a few miles from head-quarters. Roads certainly, and probably pounds and schools, would have been better looked after if the District Board had been less lavish in parting with its authority."

42. The Lieutenant-Governor's opinion of the working of District Boards in Bengal was fully stated in last year's Resolution, and the events of the past year merely confirm the views then expressed. Their dilatoriness in dealing with accounts and bills is remarked on by several officers, and another blemish noticeable is the occasional tendency of certain Boards towards factious criticism of, and opposition to, professional authority. The Commissioner of Burdwan writes:—"The Inspector of Local Works is always willing to help and advise the District Boards, and his action in this respect is, I think, appreciated by them all except Burdwan, which seems to resent all interference as an unnecessary and covert attack upon their independence." The Fureedpore District Board is said to have given way to a spirit of "ungenerous criticism against the Engineer, an excellent officer, who ought to have been encouraged rather than thwarted." In the Purneah Board there was extreme friction at one time between the members and their District Engineer, and the interposition of Government was necessary before healthy relations could be restored. Such cases must be characterised as blots. If the members of a District Board cannot always agree with their responsible executive advisers, they should at least be willing to credit them with a single-minded desire to advance the condition of the district. But generally speaking Sir Steuart Bayley can say that the record of the year has been a very favourable one. Good work has again been done and all departments show a satisfactory expansion of administration. When many have done so well, it is perhaps invidious to mention names; but the Lieutenant-Governor observes with pleasure the high commendation bestowed on Rai Nolinaksha Bose of Burdwan, Baboo Lolit Mohun Singh of Hooghly, Baboo Brojo Gopal Bagchi of Rajshahye, and Mr. Syed Sharafudeen of Patna, who are all non-official Vice-Chairmen of their District Boards. The Lieutenant-Governor acknowledges also the valuable service rendered by district officers in their capacity as Chairmen of the Boards. It is no small tribute to the ability of these officers as a body that they should have given effect to the policy of Local Self-Government in these Provinces so efficiently and at the same time with so little friction.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

APPENDICES.

FORM No. I.

Statement showing the constitution of Local Boards in Bengal during the year ending 31st March 1890.

Serial No.	Name of Local Board.	Act under which constituted.	Area in square miles.	Population within the area.	Number of members.								Number of meetings held.	Average attendance at each meeting.		
					Ex-officio.	Nominated.	Elected.	Total.	Officials.	Non-officials.	Europeans and Eurasians.	Natives.		Officials.	Non-officials.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Burdwan	Act III (B.C.) of 1885.	1,230	607,165	1	4	10	15	2	13	...	15	6	·6	9·5	10·1
2	Ranigunge	Ditto ..	664	273,622	...	4*	5	9	1	8	3	6	9	·55	3·22	3·77
3	Cutwa	Ditto ...	347	217,427	...	3	6	9	1	8	...	9	6	·5	4·6	5·1
4	Culna	Ditto ...	428	228,013	...	3	6	9	...	9	...	9	5	.....	5·2	5·2
5	Bankoora	Ditto ...	1,917	620,016	1	3	8	12	2	10	...	12	7	1·43	4	5·43
6	Bishenpore	Ditto ...	602	302,731	...	3	6	9	...	9	...	9	5	.....	3·8	3·8
7	Soory	Ditto ...	1,086	476,271	...	4*	7	11	5	6	...	11	9	1·5	1·5	3
8	Rampore Hât	Ditto ...	669	310,507	...	3	6	9	1	8	1	8	12	·75	4·75	5·5
9	Midnapore	Ditto ...	3,290	1,235,455	3	9	24	36	6	30	5	31	5	2	11·6	13·6
10	Ghattal	Ditto ...	303	236,676	...	6	12	18	3	15	...	18	7	1	7	8
11	Tumlook	Ditto ...	617	473,174	1	5	12	18	1	17	...	18	12	·16	5·83	5·99
12	Contai	Ditto ...	849	481,996	3	5*	13	21	3	18	1	20	11	·72	7·1	7·82
13	Hooghly	Ditto ..	408	270,323	1	6†	8	15	2	13	...	15	6	·17	6	6·17
14	Serampore	Ditto ...	328	288,807	1	6†	8	15	1	14	...	15	10	·9	6·7	7·6
15	Jehanabad	Ditto ...	421	342,095	...	3	6	9	1	8	...	9	9‡	·85	4·7	5·55
16	Howrah	Ditto ...	162	205,831	...	3	6	9	1	8	...	9	2	·5	4	4·5
17	Ooloobaria	Ditto ...	303	323,737	...	6§	6	12	...	12	...	12	8	.....	5	5
18	Diamond Harbour ...	Ditto ...	417	344,330	...	4	8	12	...	12	...	12	6	.....	7·16	7·16
19	Alipore	Ditto ...	836	403,828	...	6	9	15	3	12	...	15	5	1·8	4·6	6·4
20	Barrackpore	Ditto ...	29	22,106	...	2	4	6	1	5	...	6	3	·77	3·8	4·6
21	Dum-Dum	Ditto ...	12	16,643	...	5	1	6	2	4	...	6	3	1·66	3·34	5
22	Bussirhat	Ditto ...	332	164,108	.	5	4	9	...	9	...	9	10	... ..	4·8	4·8
23	Baraset	Ditto ...	370	222,745	...	3	6	9	2	7	...	9	8	·62	4·75	5·37
24	Khoolna	Ditto ...	696	338,204	2	2	8	12	2	10	...	12	4	·5	4·5	5
25	Satkhira	Ditto ...	677	417,069	...	5	10	15	...	15	...	15	4	.....	7·25	7·25
26	Bagirhat	Ditto ...	679	300,703	...	4	8	12	...	12	...	12	3	.....	7·3	7·3
27	Kooshtea	Ditto ...	552	431,032	...	3	6	9	...	9	...	9	5	.....	5·2	5·2
28	Meherpore	Ditto ...	627	338,165	...	6	3	9	...	9	2	7	4	.. .	5	5
29	Chooadanga	Ditto ...	437	254,295	...	3	6	9	...	9	1	8	4	... ..	4·5	4·5
30	Krishnaghur	Ditto ..	601	338,162	...	4	8	12	...	12	...	12	6	.....	6·5	6·5
31	Ranaghat	Ditto ...	416	189,588	1	3	6	10	1	9	...	10	6	1	5·83	6·83
32	Jhenidah	Ditto ...	467	317,291	...	3	6	9	1	8	...	9	7	·85	4·86	5·71
33	Magoorah ...	Ditto ...	426	293,393	...	3	6	9	...	9	...	9	9	.....	4	4
34	Jessore	Ditto ...	883	620,414	.	6	12	18	...	18	2	16	6	.....	3·50	3·50
35	Narail	Ditto ..	487	328,172	...	3	6	9	1	8	...	9	10	·60	4·10	4·70
36	Bongong	Ditto ...	648	356,126	...	4	11	15	1	14	...	15	7	1	4·14	5·14
37	Berhampore	Ditto ...	974	522,383	...	8	7	15	2	13	...	15	6	1·33	2·67	4
38	Lalbagh	Ditto ...	234	107,776	1	8	...	9	1	8	...	9	6	1	2·8	3·8
39	Jungypore	Ditto ..	507	293,893	...	9	3	12	...	12	...	12	5	... .	4	4
40	Kandi	Ditto ...	383	213,207	1	9	2	12	1	11	...	12	6	1	3	4
41	Beauleah	Ditto ...	937	579,523	..	5	10	15	1	14	1	14	1	·8	4·3	5·1
														1·0	8·0	9·0
42	Nowgong	Ditto ...	603	268,579	...	3	6	9	1	8	...	9	1	1·8	2·2	4
														1	5	5·2
43	Nattore	Ditto	811	461,418	...	4	8	12	...	12	1	11	1	1·6	2·6	4·2
														..	9	9
44	Rungpore	Ditto ...	1,128	657,602	...	12	...	12	3	9	...	12	9	3	10·8	13·8
45	Nilphamari	Ditto ...	638	439,486	...	6	...	6	1	5	...	6	9	·3	3·4	3·7
46	Kurigram	Ditto ...	937	534,954	...	6	...	6	...	6	...	6	6	... ..	3·3	3·3
47	Gaibanda	Ditto ...	760	450,802	...	7	...	7	1	6	...	7	9	1	2·3	3·3
48	Pubna	Ditto ...	869	597,081	..	4	8	12	...	12	...	12	14	... .	5·2	5·2
49	Serajgunge	Ditto ...	944	678,706	...	4	8	12	2	10	1	11	13	1	4·4	5·4
50	Naraingunge	Ditto ...	640	458,149	...	3	6	9	...	9	...	9	5	.....	5·6	5·6
51	Dacca	Ditto ...	1,201	621,368	...	4	8	12	...	12	...	12	5	.....	6·8	6·8
52	Manickgunge	Ditto ...	489	427,217	...	3	6	9	...	9	...	9	6	.....	4·8	4·8
53	Moonshigunge	Ditto ...	401	519,447	...	5	10	15	1	14	...	15	4	5	9·25	9·75
54	Furre dpore	Ditto ..	852	610,408	1	3	8	12	2	10	...	12	9	·77	4·11	4·88
55	Madaripore	Ditto ..	974	677,406	1	3	8	12	1	11	...	12	13	·85	4·0	4·85
56	Goalundo...	Ditto ...	428	321,485	...	3	6	9	...	9	..	9	4	.....	4·5	4·5
57	Patuakhally	Ditto ..	1,231	426,758	1	8	...	9	2	7	...	9	7	1·71	3·0	4·71
58	Perozepore	Ditto ...	689	436,192	1	4	10	15	1	14	...	15	7	·28	5·14	5·42
59	Burisal	Ditto ...	1,096	795,717	1	5	12	18	2	16	1	17	11	.. ...	7·55	7·55
60	Bhola	Ditto ..	615	212,230	1	8	...	9	3	6	...	9	7	3·14	5·14	8·28
61	Jamalpore	Ditto ...	1,220	476,945	2	6	...	8	2	6	...	8	7	2·0	1·2	3·2
62	Tangail	Ditto ...	1,051	737,250	1	7	...	8	2	6	...	8	13	1·0	3·0	4·0
63	Netrokona	Ditto ...	1,389	574,800	1	7	...	8	2	6	1	7	10	1·5	2·3	3·8
64	Mymensing	Ditto ...	1,845	729,608	...	4	8	12	3	9	1	11	13	·9	4·0	4·9
65	Kishoregunge	Ditto ...	737	445,517	...	8	...	8	3	5	...	8	13	2·0	1·5	3·5
66	Bramunberiah	Ditto ...	758	513,979	...	9	...	9	5	4	...	9	4	2·25	3·25	5·5
67	Commillah (Tipperah)	Ditto ...	1,158	690,034	...	12	...	12	3	9	...	12	11	1·90	4·54	6·44
68	Chandpore	Ditto ...	580	284,381	...	7	...	7	1	6	...	7	11	1·0	3·63	4·63
69	Patna	Ditto ...	607	412,636	...	4	8	12	...	12	...	12	13	.....	4	4
70	Dinapore...	Ditto ...	133	142,388	...	3	6	9	...	9	1	8	6	.....	4·8	4·8
71	Barh	Ditto ...	497	361,385	...	3	6	9	2	7	...	9	5	1·3	3·8	5·1
72	Behar	Ditto ...	785	579,799	...	8	4	12	1	11	...	12	7	1	4·7	5·7
73	Gya	Ditto ...	1,827	716,752	2	7	...	9	2	7	1	8	5	·2	3·4	3·6
74	Nowadah	Ditto ...	1,020	488,488	1	5	...	6	1	5	...	6	6	1	3·5	4·5
75	Jehanabad	Ditto ...	607	345,189	...	6	...	6	1	5	2	4	8	1	·7	1·7
76	Aurungabad	Ditto ...	1,238	435,641	1	5	...	6	1	5	...	6	8	1	2	3
77	Arrah	Ditto ...	903	657,275	2	28	...	30	2	28	3	27	13	·4	8·7	9·1
78	Buxar	Ditto ...	644	388,678	3	12	...	15	3	12	4	11	5	1·2	4·4	5·6
79	Sasseram	Ditto ...	1,488	484,639	1	19	...	20	2	18	3	17	9	1·4	3·6	5
80	Bhubbua...	Ditto ...	1,300	313,306	1	7	...	8	1	7	...	8	15	·3	1·2	1·5
81	Madhubani	Ditto ...	1,342	891,105	2	8	...	10	2	8	3	8	8	2		5
82	Durbhunga ...	Ditto ...	1,213	892,466	3	7	...	10	3	7	3	7	13	1	3	4
83	Samastipore (Tajpore)	Ditto ...	784	155,948	1	8	...	9	1	7	3	5	1	1	3	4
84	Sectamurhi ...	Ditto ...	990	831,359	...	8	...	8	2	6	2	6	4	2	1·7	3·7
85	Muzaffarpore	Ditto ...	1,188	972,993	...	8	...	8	4	4	4	4	3	2·3	2	4·3
86	Hajipore...	Ditto ...	760	663,023	...	8	...	8	2	6	7	1	3	2	1	3

* One appointed under section 10.
† Two appointed under section 10.
‡ Includes three meetings held by the new Local Board.
§ Three appointed under section 10.
‖ Of the old Board.
¶ Do. new Board.

Serial No.	Name of Local Board.	Act under which constituted.	Area in square miles.	Population within the area.	Number of members: Ex-officio.	Nominated.	Elected.	Total.	Officials.	Non-officials.	Europeans and Eurasians.	Natives.	Number of meetings held.	Average attendance at each meeting: Officials.	Non-officials.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
87	Gopalgunge	Act III (B.C.) of 1885.	771	545,066	2	4	...	6	2	4	2	4	9	.....	.....	3·2
88	Sewan	Ditto ...	849	735,961	1	7	...	8	2	6	4	4	7	·9	1·8	2·7
89	Chupra	Ditto ...	969	920,092	2	14	...	16	4	12	10	6	8	·1	4·6	4·7
90	Monghyr	Ditto ...	1,550	768,017	1	11	...	12	2	10	2	10	8	·75	4·25	5
91	Begusarai...	Ditto ...	769	583,426	1	11	...	12	1	11	3	9	(a)8	1	3·75	4·75
92	Jamui	Ditto ...	1,592	543,403	1	11	...	12	1	11	..	12	(b)12	·83	3·42	4·25
93	Bhagulpore	Ditto ...	926	472,989	...	13	...	13	1	12	1	12	(c)12	·08	5·67	5·75
94	Soopole	Ditto ...	1,275	600,874	...	14	...	14	1	13	3	11	12	1	5·5	6·5
95	Muddehpore	Ditto ...	872	398,006	...	12	...	12	1	11	2	10	(d)10	1	3·5	4·5
96	Banka	Ditto ...	1,185	420,379	...	12	...	12	1	11	..	12	(e)11	1	5·38	6·36
97	Arrareah	Ditto ...	1,044	401,679	...	12	...	12	...	12	...	12	8	.....	6·25	6·25
98	Kissengunge	Ditto ...	1,304	619,909	...	12	...	12	1	11	...	12	4	1	3	4
99	Purneah	Ditto ...	2,535	800,691	...	12	...	12	2	10	6	6	5	·6	5·6	6·2
100	Cuttack	Ditto ...	984	624,641	...	15	...	15	4	11	2	13	10	2·0	4·1	6·1
101	Kendrapara	Ditto ...	1,419	559,993	...	12	...	12	2	10	2	10	7	1·0	4·42	5·42
102	Jajpore	Ditto ...	1,009	488,205	...	12	...	12	3	9	1	11	8	2·42	4·25	6·67
103	Bhuddruck	Ditto ...	908	427,573	1	9	...	10	3	7		10	10	1·85	2·86	4·8
104	Balasore	Ditto ...	1,758	499,442	2	10	...	12	5	7	1	11	9	4·11	2·11	6·22
105	Pooree	Ditto ...	1,530	540,279	1	7	...	8	3	5	...	8	4	1·5	2·0	3·5
106	Khoorda	Ditto ...	943	323,405	...	6	...	6	4	2	1	5	10	2·1	2·0	4·1
	Total ...	.....	91,519	50,082,012	55	713	435	1,203	163	1,040	97	1,106	788	·92	4·77	5·69

(a) Owing to the absence of the Chairman on deputation to Jessore.
(b) Four meetings had to be adjourned for want of a quorum.
(c) Three ditto ditto.
(d) Thirteen meetings were convened. In four of them there was no quorum. One of the meetings held was an adjourned meeting.
(e) Thirteen meetings were held. In two of them there was no quorum.

Form No. I.

Statement showing the constitution of the District Boards in Bengal during the year ending 31st March 1890.

Serial No.	Name of District Board.	Act under which constituted.	Area in square miles.	Population within the area.	Number of members: Ex-officio.	Nominated.	Elected.	Total.	Officials.	Non-officials.	Europeans and Eurasians.	Natives.	Number of meetings held.	Average attendance at each meeting: Officials.	Non-officials.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Burdwan ...	III (B.C.) of 1885.	2,669	1,326,227	4	5	9	18	6	12	5	13	17	1·76	5·65	7·41
2	Bankoora ...	Ditto ...	2,609	901,747	1	6	7	14	3	11	2	12	12	1·5	4·7	6·2
3	Beerbhoom ...	Ditto ...	1,754	786,778	3	3	6	12	3	9	2	10	13	1·44	3·16	4·6
4	Midnapore ...	Ditto ...	5,039	2,427,301	6	12	18	36	10	26	7	29	10	3·9	10·2	14·1
5	Hooghly ...	Ditto ...	1,157	901,210	6	7	13	26	6	20	3	23	8	3·2	11·1	14·3
6	Howrah ...	Ditto ...	465	529,568	3	2	5	10	3	7	1	9	10	1·2	5·3	6·5
7	24-Pergunnahs...	Ditto ...	1,991	1,171,820	6	7	12	25	10	15	2	23	13	3·84	6·08	9·92
8	Khoolna ...	Ditto ...	2,052	1,056,066	5	4	8	17	5	12	1	16	9	2·77	5·55	8·32
9	Nuddea ...	Ditto ...	3,371	1,908,368	6	5	10	21	6	15	6	15	7	2·85	7·28	10·13
10	Jessore ...	Ditto ...	2,262	1,553,210	7	6	12	25	9	16	5	20	6	2·33	5·33	7·66
11	Moorshedabad ...	Ditto ...	2,098	1,137,348	7	2	10	19	8	11	3	11	7	4·28	3·57	7·85
12	Dinagepore ...	Ditto ...	4,113	1,501,349	4	17	...	21	10	11	2	19	18	2·8	2·7	5·5
13	Rajshahye ...	Ditto ...	2,353	1,309,520	2	8	10	20	6	14	7	13	11	3·3	5·5	8·8
14	Rungpore ...	Ditto ...	3,324	2,082,964	3	12	15	30	4	26	1	29	9	3·0	10·8	13·8
15	Bogra ...	Ditto ...	1,495	723,665	...	15	...	15	3	12	...	15	14	1·5	4·0	5·5
16	Pubna ...	Ditto ...	1,843	1,276,035	3	4	8	15	3	12	3	12	14	·8	5·6	6·4
17	Julpigoree ...	Ditto ...	2,881	573,020	4	12	...	16	8	8	8	8	7	3·8	2·8	6·6
18	Dacca ...	Ditto ...	2,790	2,020,181	6	9	14	29	10	19	3	26	9	3·6	6·7	10·3
19	Furreedpore ...	Ditto ...	2,250	1,609,359	4	9	12	25	9	16	...	25	16	4·50	9·06	13·56
20	Backergunge ...	Ditto ...	3,618	1,870,897	3	9	12	24	8	16	4	20	13	2·54	9·92	12·46
21	Mymensingh ...	Ditto ...	6,242	2,964,180	2	11	12	25	7	18	...	25	8	3·2	6·4	9·6
22	Tipperah ...	Ditto ...	2,476	1,188,304	4	3	6	13	5	8	4	9	13	3·	5·16	8·16
23	Noakholly ...	Ditto ...	1,639	815,608	5	8	...	13	5	8	2	11	12	3·08	3·50	6·58
24	Chittagong ...	Ditto ...	2,361	1,107,009	7	12	...	19	7	12	7	12	15	4·93	4 13	9·06
25	Patna ...	Ditto ...	2,012	1,496,208	5	7	12	24	5	19	3	21	11	1·7	10·2	11·9
26	Gya ...	Ditto ...	4,680	2,026,070	2	9	10	21	5	16	5	16	17	1·6	6·6	8·2
27	Shahabad ...	Ditto ...	4,335	1,844,396	4	9	12	25	7	18	6	19	11	2·1	5·8	7·9
28	Durbhanga ...	Ditto ...	3,309	2,529,514	5	8	12	25	7	18	13	12	16	4	8	12
29	Mozufferpore ...	Ditto ...	2,987	2,491,274	...	9	9	18	7	11	12	6	8	3·3	4·8	7·9
30	Sarun ...	Ditto ...	2,680	2,201,119	7	8	15	30	11	19	14	16	18	3·2	6·5	9·7
31	Chumparun ...	Ditto ...	3,510	1,689,422	4	12	...	16	5	11	10	6	8	2·4	4·4	6 8
32	Monghyr ...	Ditto ...	3,911	1,889,846	5	7	12	24	6	18	9	15	12	3·3	8·5	11·8
33	Bhagulpore ...	Ditto ...	4,258	1,892,248	4	16	20	40	4	36	8	32	11	1·54	14·82	16·36
34	Purneah ...	Ditto ...	4,870	1,822,279	2	10	12	24	4	20	6	18	(a)13	1·4	9·9	11·3
35	Maldah ...	Ditto ...	1,887	693,304	3	10	...	13	4	8	4	8	(b)13	3·77	2·61	6·38
36	Cuttack ...	Ditto ...	3,502	1,672,209	3	8	10	21	7	14	5	16	12	2·25	1·91	4·16
37	Balasore ...	Ditto ...	2,058	925,015	2	6	8	16	10	6	5	11	11	5·09	2·27	7·36
38	Pooree ...	Ditto ...	2,470	863,684	2	5	6	13	7	6	3	10	11	2·45	3·72	6·17
	Total ...		109,391	57,185,867	150	310	337	797	243	554	186	611	448	2·82	6·16	8·98

(a) Includes one special and two adjourned meetings.
(b) Includes two special meetings.

FC

Statement showing the income of the District B

Serial number of District Board.	Name of District Board.	Closing balance of last year.	I.—LAND REVENUE.				VI.—PROVINCIAL RATES.						XII.—INTEREST.			XIII.—POST OFFICE.			XV POL
			Revenue due to canals.	Sale proceeds of trees, grass, &c.		Total.	Local rate.	Patwari cess.	Village service fund.	Interest on arrear of road cess.		Total.	On education securities.	On dispensary securities.	Total.	Mail cart receipts.	District post (collections.)	Total.	Receipts under Cattle Trespass
	Burdwan Division.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1	Burdwan	57,463	.....	.....	...	.....	1,36,865	...	...	...	...	1,36,865	...	...	...	...	...	...	1
2	Bankoora	—34,723	.....	.....	...	.....	46,526	...	...	...	...	46,526	...	...	...	...	...	...	
3	Beerbhoom	29,194	.....	.....	...	.....	54,919	...	...	...	...	54,919	...	...	...	...	...	...	
4	Midnapore	6,283	.....	.....	...	.....	1,35,214	...	...	2,436	...	1,37,650	...	...	...	...	...	...	
5	Hooghly	54,826	.....	...	...	...	69,613	...	...	...	...	69,613	...	...	..	...	...	...	
6	Howrah	49,514	.....	168	...	168	41,322	...		...	...	41,322	...	...	...	...	...	...	
	Total	1,12,557	.....	168	...	168	4,84,459	...	..	2,436	.	4,86,895	...	...	...	...	...	...	3
	Presidency Division.																		
7	24-Pergunnahs	55,943	.....	1,844*	...	1,844	1,02,071	...	...	...	...	1,02,071	...	...	...	...	...	...	
8	Khoolna	27,905	.....	87	...	87	58,978	...	...	...	...	58,978	...	...	...	...	...	...	
9	Nuddea	25,083	.....	.....	...	.....	63,873	...	...	..	...	63,873	...	...	...	...	...	...	2
10	Jessore	27,324	.....	43	...	43	82,594	...	...	...	...	82,594	...	...	...	...	...	...	2
11	Moorshedabad	15,937	.....	747	...	747	74,578	...	.	...	...	74,578	...	..	...	...	...	...	1
	Total	1,52,192	...	2,721	..	2,721	3,82,094	...	..	...	..	5,82,094	...	...	...	...	...	...	6
	Rajshahye Division.																		
12	Dinagepore	47,061	... ..	36	...	36	75,986	...	...	...	...	75,986	...	...	...	...	...	...	1
13	Rajshahye	30,884	.....	299	...	299	73,810	...	...	...	...	73,810	4	...	4	...	...	...	
14	Rungpore	20,150	.....	96	...	96	1,20,184	...	...	...	...	1,20,184	...	...	...	...	...	..	
15	Bogra	50,340	.. ..	34	...	34	43,199	...	...	...	..	43,199	...	...	...	...	...	...	1
16	Pubna	46,077	... ...	17	...	17	38,616	...	...	...	.	38,616	...	...	...	...	...	...	1
17	Julpigoree	19,383	.. ..	108	...	108	43,553	...	..	...	..	43,553	...	..	...	...	...	...	
	Total	2,20,095	...	590	...	590	3,95,348	...	.	..	...	3,95,348	4	...	4	...	...	..	6
	Dacca Division.																		
18	Dacca	48,379	... .	.....	...	.....	68,815	...	...	619	...	69,434	...	...	...	..	. .	...	
19	Furreedpore	458	.....	... .	...	.....	46,9 8	...	..	...	...	46,918	...	...	...	...	..	...	1
20	Backergunge	62,062	.....	.....	...	.....	85,419	..	...	...	...	85,419	...	...	...	...	...	...	
21	Mymensingh	1,48,131	.. ..	6	...	6	1,59,389	..	...	...		1,59,389	...	...	...	...	...	.	3
	Total	2,59,030	.....	6	...	6	3,60,551	...	...	619	...	3,61,170	...	...	...	...	...	...	5
	Chittagong Division.																		
22	Tipperah	62,880	.....	.....	...	.....	98,663	..	...	...	...	98,663	...	...	...	...	...	...	
23	Noakhally	76,436	.. ..	.....	...	.....	76,585	...	...	...	...	76,585	...	...	...	...	...	...	
24	Chittagong	1,04,606	9,365	... .	...	9,365	80,238	...	...	...	...	80,238	...	...	...	...	...	...	
	Total	2,43,922	9,365	.... .	...	9,365	2,55,486	...	...	...	...	2,55,486	...	...	...	...	..	...	1
	Patna Division.																		
25	Patna	1,29,486	.....	635	...	635	1,73,462	...	...	...	...	1,73,462	...	...	...	...	...	...	
26	Gya	55,275	.. ..	...	...	.. ...	1,97,198	...	...	...	...	1,97,198	...	40	40	...	...	...	
27	Shahabad	78,016	.....	237	...	237	1,35,246	...	...	...	...	1,35,246	...	...	...	...	...	...	
28	Durbhunga	76,168	.... .	... ..	...	.....	1,68,246	...	...	...	...	1,68,246	...	...	...	...	...	...	
29	Mozufferpore	6,161	.....	106	...	106	1,36,585	...	...	..	...	1,36,585	...	...	...	...	...	...	
30	Sarun	94,837	.....	.....	...	.....	1,60,016	...	...	...	...	1,60,016	...	...	...	...	...	...	
31	Chumparun	3,982	.....	93	...	93	79,356	...	...	...	...	79,356	...	...	...	...	...	...	1
	Total	4,44,415	.....	1,071	...	1,071	10,56,109	.	...	...	...	10,56,109	...	40	40	...	...	...	5
	Bhagulpore Division.																		
32	Monghyr	78,945	.....	396	...	396	1,38,549	...	...	...	...	1,38,549	...	...	...	...	...	...	1
33	Bhagulpore	58,560	.....	.....	...	.....	1,28,027	...	. .	...	...	1,28,027	...	204	204	...	...	...	1
34	Purneah	87,128	.....	1,438	...	1,438	78,905	...	...	...	...	78,905	...	...	...	...	...	...	3
35	Maldah	82,364	. ....	.....	...	.....	28,215	...	...	...	...	28,215	...	...	...	...	...	...	1
	Total	3,06,897	.....	1,834	...	1,834	3,73,696	...	...	...	...	3,73,696	...	204	204	...	...	...	7
	Orissa Division.																		
36	Cuttack	9,858	.....	190	...	190	57,674	...	...	...	...	57,674	...	...	...	...	...	...	
37	Balasore	16,662	.....	.....	...	.....	32,724	...	...	...	...	32,724	...	361	361	...	...	...	2
38	Pooree	12,315	.....	.....	...	.....	31,378	...	...	...	...	31,378	...	...	...	...	...	...	1
	Total	38,835	.....	190	...	190	1,21,776	...	...	...	..	1,21,776	...	361	361	...	...	...	10
	GRAND TOTAL	18,26,843	9,365	6,590	...	15,945	34,29,519	...	...	3,055	...	34,32,574	4	605	609	...	...	...	3,9

* This was credited to the District Fund Account under the

XIX.—EDUCATION.									XX.—MEDICAL.							
School Fees.				Contributions.	Miscellaneous.			Total.	Hospital and dispensary receipts.	Medicines sold by Civil Surgeons.	Income from		Miscellaneous.			Total.
High schools.	Middle schools.	Primary schools.	Total.		Sale proceeds of books.	Miscellaneous.	Total.				Endowment.	Contributions.	Sanitary fees and fines.	Other receipts.	Total.	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
...	1,381	...	1,381	22	...	165	165	1,568	...	...	...	206	...	...	...	206
...	945	...	945	143	...	.....	.....	1,088	...	...	...	.....	...	...	...	.....
...	.....	...	.....	.....	...	.....	.....	.....	299	...	9	614	...	14	14	936
...	1,554	...	1,554	703	...	1,285	1,285	3,602	...	...	...	.....	...	...	...	.....
...	1,538	...	1,538	200	...	1	1	1,799	...	...	...	.....	...	100	100	100
...	.....	...	...	.....	...	.....	.....	.....	...	...	...	... ..	...	...	...	... ..
...	5,418	...	5,418	1,188	...	1,451	1,451	8,057	299	...	9	820	...	114	114	1,242
...	444	...	444	75	...	144	144	663	...	...	...	.....	...	...	..	. . .
...	313	...	313	137	...	2	2	452	...	...	...	278	...	..	...	278
...	831	...	831	217	...	.....	.....	1,048	...	...	...	.....	...	...	...	...
...	670	...	670	42	...	18	18	730	11	...	..	517	...	...	...	528
...	.....	...	.....	.....	...	.....	.....	.....	...	...	..	.....	...	...	..	....
...	2,258	...	2,258	471	...	164	164	2,893	11	...	...	795	...	...	...	806
...	800	...	800	1,050	...	6	6	1,856	...	...	...	151	...	...	...	151
...	163	...	163	2	...	..	.....	165	...	...	...	.....	...	...	...	.....
...	660	...	660	118	...	289	289	1,067	...	...	...	... .	...	...	.	..
...	1,175	...	1,175	.....	...	.....	.....	1,175	...	...	...	106	...	...	...	106
...	117	...	117	.....	...	.....	.....	117	...	...	..	.....	...	.	..	.....
...	133	...	133	247	...	.....	.....	380	..	...	...	... ..	...	...	...	... .
..	3,048	...	3,048	1,417	...	295	295	4,760	...	...	...	257	...	...	...	257
...	... 838	...	.....	.....	..	.....	.....	.....	...	...	...	.....	...	...	...	.....
...	838	...	838	36	...	6	6	880	...	...	..	.....	...	...	...	...
...	1,187	...	1,187	1	...	2	2	1,190	...	...	...	.....	...	...	...	.....
...	1,040	...	1,040	44	...	15	15	1,099	...	...	...	.....	...	...	...	
...	3,065	...	3,065	81	...	23	23	3,169	...	...	...	.....	...	...	...	... ..
...	197	...	197	.. ...	...	.....	.....	197	...	...	...	450	...	.	...	450
...	688	...	688	60	...	23	23	771	...	...	...	.....	...	...	..	. . .
...	—230	...	—230	.....	...	.....	.....	—230	...	...	...	... ..	...	..	..	... ..
...	655	...	655	60	...	23	23	738	...	...	...	450	...	...	..	450
...	606	...	606	.....	...	3	3	609	..	.	...	. .	...	...	.	.. ...
.	608	...	608	.....	...	6	6	614	...	...	...	1,132	...	...	..	1,132
...	607	..	607	336	...	.....	.....	1,003	...	...	...	.....	...	...	...	.....
...	380	..	380	840	...	294	294	1,514	...	...	...	.....	...	...	...	....
...	299	...	299	.....	...	2	2	301	...	...	..	.....	...	...	...	.....
...	962	...	962	260	...	1	1	1,223	...	...	...	.....	...	...	...	.....
...	468	...	468	181	...	.....	.....	649	...	...	...	.....	...	...	...	.....
...	3,990	...	3,990	1,617	...	306	306	5,913	...	...	...	1,132	...	..	...	1,132
...	519	...	519	439	...	94	94	1,052	...	...	...	... .	...	...	...	.....
...	306	...	306	266	...	56	56	628	...		...	1,777	..	4	4	1,781
...	271	...	271	.....	...	114	114	385	...	..	..	428	...	...	...	428
...	644	...	644	.....	...	.....	..	644	...	...	...	... ..	...	..	..	. .
...	1,740	...	1,740	705	...	264	264	2,709	...	...	...	2,205	...	4	4	2,209
...	494	29	523	135	...	858	858	1,516	...	...	...	.....	...	...	...	... ..
..	117	...	117	600	...	1	1	718	54	...	...	1,475	...	...	...	1,529
...	78	...	78	.....	...	10	10	88	...	...	...	.....	...	...	...	.....
...	669	29	718	735	...	869	869	2,322	54	...	...	1,475	...	...	...	1,529
...	20,663	29	20,892	6,274	...	3,395	3,395	30,561	364	...	9	7,134	...	118	118	7,625

XXI.—SCIENTIFIC AND OTHER MINOR DEPARTMENTS.									XXII.—RECEIPTS IN AID OF SUPERANNUATION AND COMPASSIONATE ALLOWANCES.	XXIV.—MISCELLANEOUS.						XXVI.—RAILWAYS.	XXX IRR TIO MIN WO AND GAT
			Public Exhibitions and Fairs.								Rents.						
Botanical and other Public Garden receipts.	Veterinary receipts.	Receipts on account of experimental cultivation.	Horse fairs.	Cattle fairs.	Other exhibitions or fairs.	Total.	Miscellaneous.	Total.	Contribution for pensions and gratuities.	Sale of old stores and materials.	Staging bungalow fees.	Serai fees.	Total.	Fees, fines and forfeitures, etc.	Total.	Gross receipts.	Local canal receipts.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
.	..	.....	...	..	...	...	...	...	.....	.....	23	...	23	3,512	3,535	.... .	....
..	...	.....	...	...	...	...	...	...	.....	... ..	56	...	56	1,113	1,169	.....	....
...	...	... ..	...	...	...	...	...	...	.....	675	301	...	301	1,070	2,046	.....	....
...	...	.....	...	...	...	...	...	...	.....	186	67	...	67	6,781	7 034	... ..	....
...	...	.....	...	.	...	...	...	...	.....	.....	16	...	16	19,021	19,037	.....	....
...	...	.....	...	...	..	...	...	...	.....	.....	.....	...	.....	.....	... .	.....	....
.	...	.....	..	...	...	...	...	...	.....	861	463	...	463	31,497	32,821	.....	....
...	...	.....	...	..	...	..	...	...	.....	301	.....	...	.....	5,289*	5,590	.....	....
.	...	.....	...	...	..	..	...	...	.....	30	53	...	53	1,788	1,877	.....	....
...	...	...	...	...		...	...	...	. ....	.....	187	...	187	3,859	4,046	.....	....
...	...	.....	...	...	...	..	..	...	.....	463	... ..	...	.....	4,358	4,821	.....	....
...	...	... .	...	..	...	...	...	...	.....	.....	.....	...	.....	.....	.....	.....	.. .
...	...	. ....	...	..	...	...	...		. ....	800	240	...	240	15,294	16,334	.....	....
.	..	... ..	...	...	...	...	...	...	.....	1	.....	...	.....	439	440	.....	....
..	...	. ...	...	...	...	...	...	...	.....	36	277	...	277	1,056	1,369	.. ...	. .
..	...	.....	..	...	...	...	...	...	.....	.....	109	...	109	319	428	.....	....
...	...	.....	...	...	...	..	...	...	.....	28	6	...	6	823	857	.....	....
...	...	......	...	...	...	...	...	...	.....	.....	145	...	145	2,051	2,196	.....	....
...	...	... ..	..	...	...	...	...	...	.....	.....	1,171	...	1,171	1,424	2,595	.....	....
...	...	.. ...	...	...	...	..	...	...	.....	65	1,708	...	1,708	6,112	7,885	.....	....
...	...	.....	.	...	589	589	...	589	.....	106	167	...	167	4,086	4,359	.....	...
...	...	.....	...	...	...	...	...	...	.....	.....	.....	...	.....	2,439	2,439	.....	....
.	...	.....	...	...	...	...	...	...	.....	.....	.....	...	.....	6,300	6,300	.....	....
...	...	.....	...	...	...	...	...	...	.....	203	.....	...	.....	3,982	4,185	.....	....
...	...	.....	...	...	589	589	.	589	.....	309	167	...	167	16,807	17,283	.....	....
...	...	.....	...	...	...	...	...	...	.....	.....	. ...	...	.....	3,991	3,991	.....	...
...	...	.....	...	...	...	...	...	...	.....	.....	20	...	20	1,775	1,795	.....	.. .
...	...	.....	..	.	...	...	...	...	.....	.....	52	...	52	11,447	11,499		...
...	...	....	...	...	...	...	...	...	...	.....	72	...	72	17,213	17,285	...	....
..	...	....	...	...	...	...	...	...	.....	.....	1,696	...	1,696	4,261	5,957	.....	....
.	...	.....	...	...	...	...	...	...	.....	.....	205	...	205	6,281	6,486	... ..	....
.	..	.....	...	...	...	...	...	...	.....	.....	303	...	303	574	877	.....	....
...	..	.....	...	...	...	...	...	...	.....	219	432	...	432	6,085	6,736	.....	....
...	...	.....	...	...	...	..	...	...	.....	250	774	...	774	2,926	3,950	.....	...
.	...	.....	...	..	...	...	1,059	1,05	.....	77	645	16	661	2,145	2,883	.....	...
.	...	.....	...	...	..	...	...	...	.....	181	157	...	157	1,962	2,300	.....	...
..		.....	...	...	...	...	1,059	1,059	.....	727	4,212	16	4,228	24,234	29,189	.....	...
...	...	.....	...	...	...	..	...	...	.....	.....	.....	...	.....	6,449	6,449	.....	....
.	...	.....	...	...	...	...	...	...	.....	271	49	...	49	3,288	3,558	.....	....
..	...	...	...	..	...	..	...	..	.....	.....	367	...	367	37	404	.....	...
...	...	.....	...	...	...	...	. .	...	.....	.....	.....	...	.....	1,062	1,062	.....	...
...	...	....	...	...	...	...	...	...	.....	271	416	...	416	10,786	11,473	.....	...
..	...	.....	...	...	...	...	...	...	.....	437	87	1,706	1,763	282	2,482	.....	...
...	...	. ...	...	..	...	...	...	...	.....	.....	145	...	145	2,949	3,094	.....	...
...	..	....	...	.	...	...	...	..	.....	10	22	16	38	1,980	2,028	.....	...
..	...	.....	...	...	...	...	...	...	.....	447	224	1,722	1,946	5,211	7,604	.....	...
...	...	.....	...	...	589	589	1,059	1,648	.....	3,480	7,502	1,738	9, 240	1,27,154	1,39,874	.....	...

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Bengal during the year ending 31st March 1890.

XXXII.—CIVIL WORKS.										CONTRIBUTION.			DEBT.			Total income excluding opening balance.	Total income including opening balance.	Incidence of taxation per head of population.	Incidence of income (excluding balance) per head of population.	REMARKS.
In Charge of Civil Officers.								In charge of Public Works Officers.		From Provincial to Local.	From other Boards.		Loans.	Deposits and advances.						
Tolls on ferries.	Rent of buildings and lands.	Sale of nazul buildings and lands.	Sale of buildings and other property (other than nazul).	Sale of stores and materials.	Miscellaneous.	Contribution.	Total.		Total.			Total.			Total.					
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	As. P.	As. P.	
9,901	...	...	.....	...	.....	.....	9,901	...	9,901	74,543	.....	74,543	...	18,747	18,747	2,55,667	3,13,130	1 7	3 1	
1,270	...	...	.....	...	.....	.....	1,270	...	1,270	92,724	.....	92,724	...	5,191	5,191	1,49,536	1,14,813	0 9	2 4	
844	...	...	.....	...	.....	.....	844	...	844	12,139	.....	12,139	...	18,457	18,457	93,116	1,24,310	1 1	1 11	
12,186	...	...	.....	...	.....	.....	12,186	...	12,186	1,00,076	.....	1,00,076	...	24,641	24,641	2,93,161	2,99,444	0 10	1 11	
5,632	...	...	.....	...	.....	.....	5,632	...	5,632	82,994	.....	82,994	...	10,433	10,433	1,98,439	2,53,265	1 2	3 6	
11,260	...	...	.....	...	...	.....	11,260	...	11,260	6,177	.....	6,177	...	.....	.....	62,332	1,11,846	1 2	1 10	
41,093	...	...	.....	...	.....	.....	41,093	...	41,093	3,68,653	.....	3,68,653	...	77,469	77,469	10,54,251	12,16,808	1 1	2 5	
10,361	...	...	.....	...	.....	782	11,143	...	11,143	1,06,998	3,550	1,09,648	...	20,825	20,825	2,57,043	3,12,986	1 4	3 6	
2,999	...	...	.....	405	28	.....	3,432	...	3,432	3,034	.....	3,034	...	14,066	14,066	86,534	1,14,439	0 10	1 3	
2,460	...	...	.....	...	.....	.....	2,460	...	2,460	.....	.....	.....	...	14,744	14,744	1,08,763	1,33,846	0 6	0 10	
5,853	...	...	.....	...	.....	.....	5,853	...	5,853	40,179	.....	40,179	...	8,493	8,493	1,65,902	1,93,226	0 8	1 8	
7,352	...	...	.....	...	.....	.....	7,352	...	7,352	.....	.....	.....	...	3,251	3,251	98,509	1,14,446	1 0	1 4	
29,025	...	...	.....	405	28	782	30,240	...	30,240	1,49,311	3,550	1,52,861	...	61,379	61,379	7,16,751	8,68,943	1 4	1 8	
3,908	...	...	.....	7	50	505	4,470	...	4,470	6,711	.....	6,711	...	19,471	19,471	1,22,591	1,69,652	0 9	1 3	
7,658	80	...	521	...	136	291	8,686	...	8,686	250	.....	250	...	21,841	21,841	1,14,345	1,45,229	0 10	1 4	
24,472	290	...	.....	112	1,391	12,913	39,178	...	39,178	1,545	.....	1,545	...	46,484	46,484	2,18,720	2,38,870	0 11	1 8	
1,410	...	...	.....	...	.....	.....	1,410	...	1,410	38	.....	38	..	5,646	5,646	63,673	1,20,013	0 11	1 4	
9,354	...	...	.....	48	.....	915	10,317	...	10,317	17,553	.....	17,553	...	7,728	7,728	94,701	1,40,778	0 5	1 2	
22,806	169	...	.....	60	.....	.....	23,125	...	23,125	25,010	.....	25,010	...	22,552	22,552	1,24,030	1,43,603	1 2	3 5	
69,698	539		521	227	1,577	14,624	87,186	...	87,186	51,107	.....	51,107	...	1,23,722	1,23,722	7,38,050	9,58,145	0 10	1 6	
20,542	...	...	.....	60	.....	100	20,702	...	20,702	20,888	.....	20,888	...	21,722	21,722	1,45,607	1,93,986	0 6	0 7	
2,675	...	...	.....	...	.....	.....	2,675	...	2,675	56,271	.....	56,271		10,555	10,555	1,30,065	1,30,523	0 5	1 3	
4,687	105	...	.....	78	.....	.....	4,870	...	4,870	26,087	.....	26,087	...	7,090	7,090	1,38,520	2,01,432	0 8	1 2	
9,497	...	...	.....	...	.....	.....	9,497	...	9,497	5,410	.....	5,410	...	50,012	50,012	2,60,755	4,08,886	0 10	1 4	
37,401	105	...	.....	138	...	100	37,744	...	37,744	1,08,656	.....	1,08,656	...	89,379	89,379	6,74,947	9,34,877	0 8	1 3	
2,802	...	...	.....	...	.....	.....	2,802	...	2,802	79,478	.....	79,478	...	3,995	3,995	1,96,238	2,59,118	1 0	2 1	
10,027	...	...	.....	...	.....	.....	10,027	...	10,027	12,218	.....	12,218	...	21,562	21,562	1,31,060	2,07,496	1 5	2 6	
10,551	...	...	.....	...	... ..	.....	10,551	...	10,551	40,403	.....	40,403	...	26,103	26,103	1,81,730	2,86,336	1 1	2 7	
23,380	...	...	... ..	...	.....	.....	23,380	...	23,380	1,32,099	.. ...	1,32,099	...	51,660	51,660	5,09,028	7,52,950	1 2	2 4	
14,154	...	...	.....	...	.....	.....	14,154	...	14,154	.....	.....	.....	...	13,192	13,192	2,10,982	3,40,468	1 10	2 3	
800	...	...	.....	80	.....	.....	880	...	880	846	.....	846	...	14,285	14,285	2,30,800	2,86,075	1 6	1 9	
−16,065	...	...	.....	...	.....	.....	−16,065	...	−16,065	10,510	300	11,010	...	15,190	15,190	1,58,508	2,32,022	1 2	1 8	
24,814	...	...	... ..	...	.....	.....	24,614	...	24,614	1,37,132	.....	1,37,132	...	1,66,457	1,66,457	5,12,323	5,88,481	1 0	3 2	
6,773	...	...	8,044	...	.....	9,000	23,817	...	23,817	38,931	.....	38,931	...	58,610	58,610	2,67,984	2,74,145	0 10	1 8	
4,966	...	...	.....	...	.....	1,071	6,037	...	6,037	3,377	.....	3,377	...	53,152	53,152	2,38,839	3,33,776	1 2	1 8	
10,904	...	...	.....	...	.....	.....	10,904	...	10,904	309	200	509	...	16,089	16,089	1,29,135	1,33,117	0 6	1 2	
46,146	...	...	8,044	80	.....	10,071	64,341	...	64,341	1,91,105	700	1,91,805	...	3,36,975	3,36,975	17,43,669	21,88,084	1 2	1 11	
17,021	...	...	.....	...	.....	.....	17,021	...	17,021	15	.....	15	...	8,373	8,373	1,33,529	2,62,474	1 2	1 6	
2,618	...	...	.....	...	.....	.....	2,618	...	2,618	3,554	.....	3,554	...	34,547	34,547	1,90,312	2,48,872	1 0	1 7	
.....	...	...	.....	...	.....	.....	.....	...	.....	.....	.....	.....	...	18,711	18,711	1,36,550	2,23,678	0 8	1 2	
963	...	...	.....	...	.....	.....	963	...	963	1,730	.....	1,730	...	7,826	7,826	56,713	1,38,977	0 7	1 3	
20,602	...	...	.....	...	.....	.....	20,602	...	20,602	5,299	.....	5,299	...	69,457	69,457	5,67,104	8,74,001	0 11	1 5	
8,580	...	...	.....	...	.....	.....	8,580	...	8,580	57,024	.....	57,024	...	2,905	2,905	1,35,844	1,45,702	0 6	1 3	
3,790	...	...	.....	...	1,887	5,020	12,697	...	12,697	18,176	.....	18,176	...	5,031	5,031	78,168	94,830	0 3	1 4	
2,449	...	...	.....	...	2	.....	2,451	...	2,451	16,718	.....	16,718	...	1,284	1,284	55,591	67,906	0 6	1 0	
16,619	...	...	.....	...	1,889	5,020	23,728	...	23,728	91,918	.....	91,918	...	9,220	9,220	2,69,603	3,08,438	0 6	1 2	
2,84,164	644	...	8,565	850	3,494	30,597	3,28,314	...	3,28,314	10,98,148	4,250	11,02,398	...	8,19,261	8,19,261	62,73,403	81,02,246	0 11	1 9	

Miscellaneous" for the year 1888-89.

FORI

Statement showing the Expenditure of the District Boara

Serial number.	Name of District Board.	Closing balance of last year.	Total income during the year.	1.—REFUNDS AND DRAWBACKS.	15.—POST OFFICE.			18.—ADMINISTRATION.				20.—POLICE.			
								GENERAL ESTABLISHMENTS OF LOCAL FUNDS.				CATTLE-POUND CHARGES.			
				Local rate refunds.	District post establishments.	Mail-cart service.	Total.	Office establishment.	Office contingencies.	Payment of establishments for offices of accounts, control, and audit.	Total.	Establishments.	Contingencies.	Refunds of cattle-pound collections.	Total.
	Burdwan Division.	Rs.	R..	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1	Burdwan	57,463	2,55,667	.....	.....	.....	.....	4,127	986	1,895	7,008	.....	...	5	
2	Bankoora	—34,723	1,49,536	.....	.....	.....	.....	2,233	567	760	3,560	.....	9	....	
3	Beerbhoom ...	29,194	95,116	....	.....	.....	.....	2,798	146	995	3,939	50	32	64	1
4	Midnapore ...	6,283	2,93,101	.....	.....	.. ..	.....	5,462	705	2,671	8,838	180	25	12	1
5	Hooghly ..	54,826	1,98,430	.....	.....	.....	.....	4,787	467	1,602	6,856	300	3	24	3
6	Howrah	49,514	62,332	... ..	...	.....	... ..	2,455	206	858	3,519	.....	36	.....	
	Total .	1,62,557	10,54,251	.....	. ....	.....	.....	21,862	3,077	8,781	33,720	530	105	105	7
	Presidency Division.														
7	24-Pergunnahs ...	55,943	2,57,043	.....	... ..	.....	... ..	4,238	1,413	2,198	7,848	84	27	.. ...	1
8	Khoolna ...	27,905	86,534	.....	.....	.....	.....	2,985	806	1,214	5,005	.....	61	.....	
9	Nuddea ...	26,083	1,08,763	5,865	.....	... .	..	2,895	1,396	1,733	6,024	300	124	31	4
10	Jessore ...	27,374	1,65,902	.....	... .	.....	.	4,198	2,482	1,981	8,661	240	127	.....	3
11	Moorshedabad ...	15,937	98,509	5,258	... ..	...	... .	3,518	881	1,394	5,793	.....	102	81	1
	Total ...	1,52,192	7,16,751	11,123	.....	. . .	....	17,834	6,977	8,520	33,331	624	441	112	1,1
	Rajshahye Division.														4
12	Dinagepore ...	47,001	1,22,591	.....	.....	...	....	2,080	438	1,540	4,058	... ..	38	1	
13	Rajshahye .	30,884	1,14,345	.....	. ..	..	.....	3,013	474	1,499	4,986	234	50	.....	2
14	Rungpore ..	26,150	2,18,720	....	....	...	.....	6,542	1,846	2,566	10,954	.....	.....	24	
15	Bogra ...	56,340	63,674	.....	.....	.....	... ..	1,392	372	1,036	2,740	35	...	.....	
16	Pubna ...	46,077	94,701	.....	.....	.....	. ..	3,354	605	1,171	5,130	1,096	257	16	1,3
17	Julpigoree ...	10,583	1,24,020	... ..	. . ..	....	... ..	1,307	2,047	1,193	4,547	300	160	.....	4
	Total ...	2,20,095	7,38,050	.... .	.....	.. .	. .	17,688	5,782	8,945	32,415	1,665	505	41	2,2
	Dacca Division.														
18	Dacca ...	48,379	1,45,607	.....	... ..	.....	. ..	4,702	1,711	1,579	7,992	355	87	20	4
19	Furreedpore ...	458	1,30,065	... ..	. ..	.....	.....	2,586	739	933	4,258	.....	... ..	.....	.....
20	Backergunge ...	62,962	1,38,530	... ..	.....	... ..	.....	4,269	583	1,026	6,378	.....	.....	.....	.....
21	Mymensing ...	1,48,131	2,60,755	.. ..	...	.. ..	.....	5,562	1,033	3,335	9,930	.....	320	200	5
	Total ...	2,59,930	6,74,947	....	. ....	... .	... ..	17,119	4,066	7,373	28,558	355	407	220	9
	Chittagong Division.														
22	Tipperah	62,880	1,96,238	75	.. .	... ..	. ..	13,036	.....	1,602	4,638	300	127	....	4
23	Noakhally	76,436	1,51,060	1,854	.....	.....	...	1,696	223	1,490	3,409	360	105	13	4
24	Chittagong ...	1,04,606	1,81,730	...	...	... ..	..	5,004	761	2,015	7,780	54	.....	30	1
	Total ...	2,43,922	5,09,028	1,929	. ...	... ..	..	9,736	984	5,107	15,827	714	232	43	9
	Patna Division.														
25	Patna	1,29,486	2,10,982	.. ..	.....	. . ..	.....	11,178	1,012	3,086	15,276	15	189	.....	2
26	Gya	55,275	2,30,800	.....	.....	.. ...	.....	11,596	1,084	2,996	15,676	159	211	163	5
27	Shahabad	78,510	1,53,500	500	.....	... .	... .	7,445	333	2,394	10,172	81	75	.....	1
28	Durbhunga ...	76,158	5,12,323	11	.... ..	....	....	8,079	802	3,732	13,313	10	.....	7	1
29	Muzufferpore ...	6,161	2,67,964	.....	.... ..	....	....	4,620	628	2,378	7,626	.....	24	...	1
30	Sarun	94,837	2,38,930	.....	.....	.....	.....	8,403	1,102	1,493	11,058	2,417	1,486	43	3,9
31	Chumparun ...	3,982	1,29,135	.....	. . .	.. .	.....	2,592	364	1,556	4,512	4,241	2,300	5	6,6
	Total ...	4,44,415	17,43,669	511	.....	.....	.....	54,513	5,385	17,635	77,533	6,923	4,345	218	11,4
	Bhagulpore Division.														
32	Monghyr	78,043	1,83,529	8	.... ..	.....	.....	4,393	1,416	2,527	8,336	19	93	.....	11
33	Bhagulpore ...	58,580	1,90,312	.....	.....	.....	.....	3,330	2,018	2,311	7,659	77	156	18	25
34	Purneah	87,128	1,36,550	.....	.....	.....	.....	3,402	1,306	1,863	6,571	.....	4	98	10
35	Maldah	82,964	56,713	.....	.....	.....	.....	2,260	712	1,088	4,060	.....	.....	.....	.....
	Total ...	3,06,897	5,67,104	8	.....	.....	.....	13,385	5,452	7,789	26,626	96	253	116	46
	Orissa Division.														
36	Cuttack	9,858	1,35,344	.....	.....	.....	.....	2,085	949	1,089	4,123	2,801	1,043	.....	3,8
37	Balasore	16,662	78,168	.. ...	.. ...	.....	.....	2,090	656	580	3,376	1,395	150	5	1,5
38	Pooree	12,315	55,591	.....	.....	.....	.....	2,448	.....	576	3,024	55	.....	.....	5
	Total ...	38,835	2,69,103	.....	.....	.....	.....	6,623	1,605	2,295	10,523	4,241	1,193	5	5,5
	GRAND TOTAL ...	18,28,943	62,73,403	13,001	.....	.....	.....	1,58,760	33,328	66,445	2,58,533	15,248	7,481	860	23,5

22.—EDUCATION.											24.—MEDICAL.								
	MAINTENANCE AND MANAGEMENT.												SANITATION AND VACCINATION.						
Inspection.	Training and special schools.	High schools.	Middle school.	Primary schools.	Total.	Grants-in-aid.	Scholarships.	Miscellaneous.	Refunds.	Total.	General medical establishment.	Hospitals and dispensaries.	Vaccination establishment and charges.	Sanitation charges.	Total.	Medical schools and colleges.	Lunatic asylums.	Refunds.	Total.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
4,355	...	...	3,161	30,245	33,406	13,023	...	....	..	51,684	...	1,072	...	.. ...	. ....	...	...	...	1,072
4,747	...	...	2,597	15,631	18,228	6,769	...	589	..	29,933	...	1,000	...	.. ..	.. ..	..	...	...	1,000
2,721	...	...	... ..	10,707	10,707	4,413	..	51	...	17,892	...	1,831	.	..	... .	...		...	1,831
1,829	...	...	4,524	34,784	39,308	8,514	..	.....		59,651	...	942	..	1,079	1,079	...	...	...	2,027
4,045	...	...	3,045	18,258	21,303	13,421	...		...	38,769	...	390	..	.....	.....	...		...	390
2,3'3	...	...	595	8,112	8,707	5,221	...	734	..	16,988	...	.....	..	....	.. ..	...	...		. ....
0,023	...	...	13,922	1,17,737	1,31,659	51,861	..	1,374	...	2,14,917	...	5,235	..	1,079	1,079	..	...	...	6,314
5,689	...	...	1,412	21,681	23,093	9,157	.	108	...	38,047	..	.	...	.. ..	...	...	...	.	.....
3,270	..	...	1,044	12,330	13,374	7,228	114	2,737	...	26,723	...	542	...	.. ..	.....	..	...	..	542
5,409	...	...	1,947	12,392	14,249	9,939	...	1,602	...	31,379	...	163	.	.. ..	.....	..	...	...	163
5,866	...	...	1,558	18,164	19,722	10,060		366	.	36,044	...	933	...	.....	.....	...	...	..	933
3,443	...	...	.....	9,808	9,808	4,695	.	1,598		19,544	...	..... .	...	.. ...	. ..	..	...	..	.. ...
3,767	...	..	5,961	74,285	80,246	41,079	114	6,531	...	1,51,737	...	1,638	...	.....	.. ...	...	...		1,638
8,531	...	...	3,371	.....	3,371	12,668	..	2,245	..	26,815	..	751	.	.. .	.....	..	. .	...	751
4,226		...	182	... ..	182	14,903	..	1,144	..	20,455	...	.	...	196	196	...	.	...	196
7,452	1,192	...	2,085	. ...	3,277	24,057	...	..	..	35,386		709	.	.....	.....	..	...		709
2,732	...	...	2,402	... ..	2,402	7,415	...	608	...	13,243	...	1,404	...	.... .	...	.		.	1,404
5,040	..	..	380	... ..	380	17,564	...	1,420	...	24,404	..	250	...	... ..	.....	...	...	.	250
1,908	...	...	905	.. .	905	3,979		1,72:	...	8,514	..	.....	...	.. ...	.	..	...	...	...
9,889	1,192	...	9,415	.. ...	10,607	81,184	...	7,137	..	1,28,817	...	3,174	...	196	196	..	...	.	3,370
9,754	..	...	.....	... ..	.....	31,463	...	.....	...	41,217	...	60	...	.....	.....	...	...	..	60
3,871	...	..	1,739	14,068	15,807	6,774	..	72	...	26,524	...	..	...	....	....	..	..	...	.. ..
4,591	...	...	1,997	17,554	19,551	6,435	178	54	..	30,809	...	1,497	...	2,109	2,109	...	...	...	3,606
9,548	...	...	3,304	19,199	22,503	7,787	...	1,820	..	41,667	794	550	...	.....	.....	.	..	...	1,344
7,764	...	...	7,040	50,821	57,861	52,459	178	1,955	..	1,40,217	794	2,107		2,169	2,169	...	...	...	5,070
7,076	...	...	685	21,583	22,268	4,539	..	3,441	.	37,324	...	1,769	..	.....	.....	...	...	.	1,769
5,602	...	...	1,620	12,381	14,001	2,223	...	2,584	...	24,410	...	.....	...	.....	.....	...	...	.	.. ..
5,171	...	..	1,250	9,854	11,104	4,081	...	... ..	...	20,356	...	.. ...	...	.....	.....	..	..	...	.. ..
7,849	...	...	3,555	43,818	47,373	10,843	...	6,025	...	82,090	...	1,769	...	.....	.....	...	...	...	1,769
2,773	...	...	3,226	15,523	18,749	293	...	... ..	...	21,815	...	.....	...	3,048	3,048	...	1,569	..	4,608
3,964	...	...	2,150	18,810	20,960	2,189	...	... .	...	27,141	...	3,164	57	... ..	57	...	.	..	3,221
4,454	...	...	3,684	5,367	9,059	1,367	...	177	..	15,049	...	275	...	1,432	1,432	...	...	...	1,707
2,318	...	...	1,883	14,838	16,721	295	...	.....	...	19,334	...	.. ...	...	.....	.....	...	..	...	.....
5,641	...	...	1,312	6,675	7,917	1,346	...	633	...	15,537	..	.....	...	.....	.....	..	..	..	... ..
2,908	...	...	4,465	8,623	13,088	1,404	412	4,586	...	22,398	200	3,579	..	243	243	...	...	...	4,022
3,351	469	...	2,114	8,932	11,515	667	...	139	...	15,672	...	... ..	...	.....	. .	...	..	...	.....
35,409	469	...	18,794	78,768	98,031	7,561	412	5,535	...	1,36,948	200	7,018	57	4,723	4,780	...	1,569	..	13,558
5,643	...	...	2,836	13,804	16,640	1,105	...	1,828	...	25,216	...	1,960	...	452	452	...	..	...	2,412
5,481	...	...	8,846	8,052	11,398	835	...	809	...	18,923	...	3,499	...	.....	.....	...	...	...	3,499
6,337	...	...	1,267	6,800	8,067	1,077	...	201	...	15,682	...	620	...	.....	.....	...	...	...	620
1,801	...	...	1,293	.....	1,293	0,493	...	843	...	13,429	...	72	...	.....	.....	...	...	...	72
19,262	...	...	8,741	28,656	37,397	12,510	...	3,680	..	72,849	...	6,151	...	452	452	...	...	...	6,933
9,106	..	...	2,139	302	2,441	4,663	...	21,238	...	37,470	649	... ..	...	137	137	100	...	...	886
7,920	469	...	801	11,687	13,017	3,296	...	1,323	...	25,606	...	2,728	...	.....	.....	...	...	...	2,728
2,856	...	...	2,042	140	2,182	3,561	...	4,830	...	13,429	...	610	...	... .	.....	..	...	.	610
19,884	469	.	5,042	12,129	17,640	11,620	...	27,421	...	76,565	649	3,338	...	137	137	100	...	...	4,224
93,847	2,130	...	72,479	4,06,214	4,80,814	2,60,117	704	59,658	...	12,04,140	1,643	30,430	57	8,756	8,813	100	1,560	...	42,546

26.—SCIENTIFIC AND OTHER MINOR DEPARTMENTS.										29.—SUPER-ANNUATION ALLOWANCES AND PENSIONS.		30.—STATIONERY AND PRINTING.			
	Public Exhibitions and Fairs.														
Experimental cultivation.	Horse fairs.	Cattle fairs.	Other exhibitions or fairs.	Total.	Veterinary charges.	Bull and stallion charges.	Botanical and other public gardens.	Provincial statistics.	Total.	Pensions.	Gratuities.	Stationery purchased in the country.	Other stationery.	Printing.	Lithography.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	355	.....	1,860	35
.....	...	...	... ..	.....	.....	... ..	...	...	... ..	.....	.....	66	.....	195	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	143	...	238	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	52	426	798	9
.....	...	...	.....	... .	.....	... .	...	...	.....	.....	.....	476	.....	.....	.....
.....	...	...	.....	.....	.....	... .	...	...	.....	196	.....	165	.....	1,265	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	196	.....	1,257	426	4,356	44
.....	...	...	.....	.....	.....	.....	...	...	.....	480	.....	416	.....	419	.....
.....	...	...	500	500	.....	500	...	...	1,000	.....	... ...	395	.....	183	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	585	.....	.....	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	763	.....	166	.....
.....	...	...	.....	... ..	.....	.....	...	...	.....	.....	.....	409	... ..	394	.....
.....	...	...	500	500	.....	500	...	...	1,000	480	.....	2,570	.....	1,132	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	500	.....	343	.....	409	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	362	.....	589	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	462	.....	1,257	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	85	.....	411	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	263	.....	230	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	482	... ..	.....	.....
.....	...	...	.....	.....	.....	... ..	...	...	.....	500	... ..	1,967	... ..	2,896	.....
.....	...	...	580	580	.....	.....	...	..	580	.....	.....	705	.....	881	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	431	.. ...	920	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	515	.....	449	.....
... ..	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	700	. ....	2,259	.....
.....	..	...	580	580	.....	.....	..	...	580	.....	.....	2,351	.....	4,509	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	819	.....	.....	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	437	.....	607	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	33	.....	585	.....	702	.....
.....	...	...	.....	.....	.....	.....	..	...	.....	33	.....	1,841	.....	1,309	.....
.....	...	..	.....	.....	.....	.....	...	...	.....	.....	.....	319	.....	1,668	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	1,041	.....	4,494	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	702	.....	1,286	.....
.....	...	...	.....	.....	.....	.....	...	...	... ..	.....	.....	985	.....	1,126	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	1,138	.....	438	.....
.....	...	...	3,639	3,639	.....	.....	...	..	3,639	.....	.....	34	1,217	1,113	.....
.....	..	...	.....	.....	.....	.....	...	...	.....	.....	.....	735	.....	41	.....
.....	...	...	3,639	3,639	.....	.....	...	...	3,639	.....	.. ...	4,954	1,217	10,166	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	247	.....	791	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	395	.....	1,333	49
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	570	.....	790	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	395	.....	304	.....
.....	...	...	.....	.....	.....	.....	...	...	... ..	.....	... ..	1,607	.....	3,217	49
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	145	.....	932	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	181	.....	219	.....
... .	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	692	.....	.....	.....
.....	...	...	.....	.....	.....	.....	...	...	.....	.....	.....	1,018	.....	1,151	.....
.....	...	...	4,719	4,719	.....	500	...	...	5,219	1,209	.....	17,585	1,643	28,736	93

32.—MISCELLANEOUS.						33.—FAMINE RELIEF.			38.—RAILWAYS.	41.—RAILWAYS.	43.—MINOR WORKS & NAVIGATION.	48.—RAILWAYS.			
Rewards for the destruction of dogs, wild animals, and snakes.	PETTY ESTABLISHMENT.		Miscellaneous and unforeseen Charges.	Miscellaneous refunds.	Total.	Charitable relief.	Public works.	Miscellaneous.	Working expenses.	Miscellaneous railway expenditure.	Local canal charges.	Capital expenditure.	IN CHARGES OF CIVIL OFFICERS.		
	Staging bungalows and Serais establishment and charges.	Other petty establishment and charges.											Ferry establishment and contingencies.	Refunds.	Total.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
...	.....	...	225	.....	225	.....	.....	.....	.....	.....	.....	.....	778	.....	778
...	483	392	471	.....	1,346	.....	.....	.....	.....	.....	.....	.....	56	.....	56
...	734	...	115	.....	849	.....	.....	.....	.....	.....	.....	.....	59	.....	59
8	.....	...	1,280	.....	1,288	.....	5,849	.....	.....	.....	.....	.....	2,497	.....	2,497
...	.....	...	.....	1,172	1,172	.....	.....	.....	.....	.....	.....	.....	60	.....	60
...	62	...	243	.....	305	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	1,270	392	2,334	1,172	5,185	.....	5,849	.....	.....	.....	.....	.....	3,450	.....	3,450
...	.....	...	2,919	.....	2,919	.....	.....	.....	.....	.....	*4,373	.....	2,447	.....	2,447
...	192	...	439	.....	631	.....	.....	.....	.....	.....	.....	.....	408	.....	408
9	294	...	.....	.....	303	.....	.....	.....	.....	.....	.....	.....	35	.....	35
...	690	...	.....	.....	690	.....	.....	.....	.....	.....	.....	.....	274	.....	274
..	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.. ..
9	1,176	...	3,358	.....	4,543	.....	.....	.....	.....	.....	4,373	.....	3,254	.....	3,254
...	.....	...	312	.....	312	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
...	1,159	...	286	.. ...	1,445	.....	.....	.....	.....	.....	.....	.....	119	1,986	2,105
484	360	...	424	.....	1,268	.....	.....	.....	.....	.....	.....	.....	39	.....	39
...	.....	...	37	.....	37	.....	.....	.....	.....	.....	.....	.....	.....	21,178	21,178
...	151	523	8	.....	682	.....	.....	.....	.....	.....	.....	.....	866	.....	†866
...	427	...	267	.....	694	.....	.....	.....	.....	.....	.....	.....	1,230	550	1,780
484	2,097	523	1,334	.....	4,438	.....	.....	.....	.....	.....	.....	.....	2,254	23,714	25,968
...	.....	...	340	.....	340	.....	.....	.....	.....	.....	.....	.....	9,792	.....	9,792
...	.....	...	305	.....	305	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
...	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,711	.....	5,711
...	.....	...	738	.....	738	.....	.....	.....	.....	.....	.....	.....	1,724	.....	1,724
...	.....	...	1,383	.....	1,383	.....	.....	.....	.....	.....	.....	.....	17,227	.....	17,227
...	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
...	73	...	.....	.....	73	.....	.....	.....	.....	.....	.....	.....	3	.....	3
...	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	192	.....	192
...	73	...	.....	.....	73	.....	.....	.....	.....	.....	.....	.....	195	.....	195
2	2,409	...	.....	8,031	10,442	.....	29	.....	.....	.....	.....	.....	.....	.....	.....
...	1,072	...	1,938	.....	3,010	.....	174	.....	.....	.....	.....	.....	914	.....	914
...	374	...	.....	.....	374	.....	.....	.....	.....	.....	.....	.....	49	.....	49
...	1,297	...	.....	.....	1,297	.....	1,69,005	.....	.....	.....	.....	.....	4,982	.....	4,982
...	1,482	...	260	.....	1,742	.....	74,289	.....	.....	.....	.....	.....	69	.....	69
463	1,154	...	1,786	.....	3,385	.....	.....	182	.....	.....	.....	.....	1,084	.....	1,084
...	273	...	.....	.....	273	.....	9,037	.....	.....	.....	.....	.....	.....	.....	.....
465	8,041	...	3,984	8,031	20,521	.....	2,52,694	182	.....	.....	.....	.....	7,048	.....	7,048
...	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
...	284	...	61	.....	345	.....	.....	.....	.....	.....	.....	.....	2,737	.....	2,737
24	156	42	4,510	.....	4,732	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
...	.....	...	51	.....	51	.....	.....	.....	.....	.....	.....	.....	13,230	37,027	50,257
24	440	42	4,622	.....	5,128	.....	.....	.....	.....	.....	.....	.....	15,967	37,027	52,994
...	643	...	.....	77	720	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
...	500	...	508	.....	1,008	.....	1,242	.....	.....	.....	.....	.....	.....	.....	.....
...	366	...	.....	.....	366	.....	.....	.....	.....	.....	.....	.....	26	.....	26
...	1,509	...	508	77	2,094	.....	1,242	.....	.....	.....	.....	.....	26	.....	26
990	14,615	957	17,523	9,280	42,365	.....	2,59,785	182	.....	.....	4,373	.....	49,421	60,741	1,10,162

45.—CIVIL WORKS.

In charge of Public Works Officers.

Original Works.				Repairs.								
Civil buildings.	Communications.	Miscellaneous public improvements.	Total.	Civil buildings.	Communications.	Miscellaneous public improvements.	Total.	Establishment and contingencies appertaining to public works.	Tools and plant.	Water-supply and water works.	Drainage works.	Total.	Total.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
.....	18,070	.....	18,070	.....	1,07,013	.....	1,07,013	18,580	1,332	....	.....	1,44,995	1,46,77
.....	13,586	.....	13,586	.. ...	41,349	.....	41,349	8,207	2,412	458	.....	66,012	60,96
.... .	11,326	.....	11,326	.....	39,235	.....	39,235	7,195	1,719	.....	.....	59,475	59,53
.....	31,814	.....	31,814	.....	1,01,133	.....	1,01,133	19,734	148	.....	.....	1,52,829	1,55,32
. ....	18,044	.. ...	18,044	.....	1,22,136	.. ...	1,22,136	17,237	190	.....	.....	1,58,516	1,58,57
. ....	2,931	.....	2,931	.....	29,999	.. ...	29,999	4,604	657	.....	.....	38,191	38,19
.....	96,671	.....	96,071	.....	4,40,865	.....	4,40,865	75,557	6,467	458	.... .	6,20,018	6,23,46
9,825	6,361	.....	16,186	.....	1,58,335	.... .	1,58,335	21,580	808	.....	.....	1,96,415	1,98,86
3,000	16,164	.....	19,164	1,591	25,101	.....	26,692	19,271	217	941	.....	56,285	56,78
...	4,983	.....	4,983	.....	48,861	.....	48,861	11,283	645	.....	.....	65,772	65,80
1,197	7,249	.....	8,446	.....	70,411	.....	70,411	18,150	827	21	.....	97,855	98,12
.....	2,410	.....	2,410	.....	50,798	.....	50,798	12,327	117	.....	760	66,412	66,41
14,022	37,167	.....	51,189	1,591	3,53,506	. ....	3,55,097	72,070	2,114	962	760	4,82,739	4,85,98
.....	40,803	.....	40,803	70	20,134	263	20,466	13,411	716	.....	670	76,066	76,06
.... ..	20,481	.....	20,481	.....	32,281	2,400	34,681	12,076	1,304	298	980	70,870	72,47
.. .	60,806	.....	60,806	... .	24,429	.....	24,429	17,364	2,985	980	2,740	1,09,304	1,09,34
1,005	4,071	.....	5,706	230	21,231	.....	21,461	6,897	31	.....	.....	34,155	55,33
2,569	8,948	.....	11,517	936	22,077	1,935	24,948	6,959	699	2,105	247	46,485	47,35
.....	50,710	2,712	59,422	.....	31,181	1,376	32,557	10,009	824	.....	.....	1,02,812	1,04,59
3,664	1,02,419	2,712	1,08,795	1,245	1,51,333	5,964	1,58,542	67,326	6,559	3,383	4,587	4, 3 9,192	4,65,16
.....	35,400	.....	35,400	.....	27,062	.....	27,062	9,430	326	.....	.....	72,218	82,01
77	26,839	300	27,216	52	18,341	300	18,693	7,683	189	2,167	.....	50,948	50,94
.....	53,366	.....	53,366	.....	31,086	... ..	31,086	11,801	598	... ..	.....	93,851	1,02,50
12,300	1,51,339	.....	1,63,639	.....	47,084	.....	47,084	19,756	1,200	5,167	.....	2,36,846	2,38,37
12,377	2,66,944	300	2,79,621	52	1,18,573	300	1,18,925	48,670	2,313	7,334	.....	4,56,863	4,74,09
.....	§30,774	.....	30,774	.....	36,533	.....	36,583	11,435	107	.....	.....	78,849	78,84
.....	23,735	.....	23,735	.....	27,748	950	28,698	10,631	538	3,643	.....	67,245	67,24
.....	2,487	.....	2.487	.....	43,675	.....	43,675	13,142	21	.....	.....	59,325	59,51
.....	56,996	.....	56,996	.....	1,07,956	950	1,08,906	35,208	666	3,643	.....	2,05,419	2,05,61
4,506	91,747	.....	96,253	2,022	61,225	.....	63,247	21,798	1,828	.....	.....	23,626	23,6
.....	57,154	.....	57,154	.....	49,568	.....	49,568	26,502	1,832	.....	.....	1,35,056	1,35,97
.....	30,653	.....	30,653	.....	75,626	.....	75,264	28,430	1,302	.....	.....	1,30,649	1,30,68
.....	65,392	.....	65,392	.....	99,607	.....	99,607	30,817	2,491	.....	.....	1,98,307	2,03,28
.....	52,368	.....	52,368	398	36,835	.....	37,233	23,280	1,176	.....	.....	1,14,087	1,14,12
1,078	58,796	2,415	62,289	2,461	67,303	744	70,508	29,076	1,557	.....	.....	1,63,430	1,64,46
.....	11,965	.....	11,965	.....	35,172	.....	35,172	15,075	856	.....	.....	63,068	63,0
5,584	3,68,075	2,415	3,76,074	4,881	4,24,974	744	4,30,599	1,69,978	11,042	.....	.....	9,87,693	9,94,7
.....	44,633	432	45,087	.....	1,02,034	.....	1,02,034	18,006	1,885	5,180	.....	1,72,162	1,72,1
.....	20,970	574	21,544	744	82,330	1,716	84,790	25,412	488	.....	.....	1,32,234	1,34,0
.....	19,699	.....	19,699	.....	53,011	146	53,157	17,833	427	.....	.....	91,112	91,1
.....	9,206	.....	9,206	.....	13,928	2,976	16,904	5,920	408	.....	.....	34,438	34,6
.....	94,491	1,006	95,497	744	2,53,303	4,838	2,58,885	67,176	3,208	5,180	.....	4,29,946	4,32,9
.....	1,590	.....	1,590	1,366	37,380	1,896	40,642	10,210	137	.....	.....	52,579	52,5
.....	9,448	.....	9,448	.....	3,811	.....	3,811	4,985	.....	.....	.....	23,244	23,1
.....	6,061	.....	6,061	.....	22,460	... .	22,460	5,618	387	.....	.....	34,526	34,5
.....	17,099	.... .	17,099	1,366	63,651	1,896	71,913	20,813	524	.....	.....	1,10,349	1,10,5
33,647	11,29,862	6,433	11, 71, 9 42	9,879	10,10,161	14,692	19,43,732	5,57,385	32,893	26,960	5,347	37,32,319	38,42,

II.

ıgnl during the year ending 31*st March* 1890.

TRIBUTIONS.		DEBT.			INTEREST ON DEBT.				BALANCE.			REMARKS.
To other boards.	Total.	Payment of loans.	Deposits and advances.	Total.	On account of last year.	On account of current year.	Total.	Total expenditure.	Deposits.	Actual balance.	Total.	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
.....	.....	.....	5,098	5,098	.....	.....	.....	2,13,115	14,075	85,040	1,00,015	
.....	.....	.....	4,031	4,031	.....	.....	.....	1,06,208	1,243	7,362	8,605	
.....	.....	.....	16,224	16,224	.....	.....	.....	1,00,796	4,362	19,152	23,514	
.....	.....	.....	16,477	16,477	.....	.....	.....	2,50,952	14,097	34,395	48,492	
.....	.....	.....	7,953	7,953	.....	.....	.....	2,14,519	.....	38,746	38,746	
.....	.....	.....	574	574	.....	.....	.....	61,250	382	50,225	50,607	
.....	.....	.....	50,357	50,357	.....	.....	.....	9,46,829	35,059	2,34,920	2,69,979	
.....	.....	.....	7,416	7,416	.....	.....	.....	2,68,801	10,908	41,187	52,095	* Transferred from the head "Public works."
.....	.....	.....	14,045	14,045	.....	.....	.....	1,05,341	4,773	4,325	9,098	
.....	.....	.....	7,827	7,827	.....	.....	.....	1,17,908	9,077	6,861	15,938	
.....	.....	.....	7,017	7,017	.....	.....	.....	1,52,769	6,783	33,674	40,457	
.....	.....	.....	5,792	5,792	.....	.....	.....	1,03,785	.....	10,661	10,661	
.....	.....	.....	41,597	41,597	.....	.....	.....	7,40,694	31,541	96,708	1,28,249	
.....	.....	.....	10,554	10,554	.....	.....	.....	1,19,847	6,811	42,994	49,805	
.....	.....	.....	28,079	28,079	.....	.....	.....	1,28,871	3,465	12,893	16,358	
.....	.....	.....	28,847	28,847	.....	.....	.....	1,88,300	13,510	37,060	50,570	
.....	.....	.....	4,063	4,063	.....	.....	.....	77,351	2,908	39,754	42,662	
.....	.....	.....	8,176	8,176	.....	.....	.....	87,855	6,611	46,312	52,923	† Excludes charges amounting to Rs. 8,951 on account of steamer service.
.....	.....	.....	9,205	9,205	.....	.....	.....	1,28,494	8,817	6,292	15,109	
.....	.....	.....	88,924	88,924	.....	.....	.....	7,30,718	42,122	1,85,305	2,27,427	
.....	.....	.....	18,346	18,346	.....	.....	.....	1,52,593	6,739	34,654	41,393	
.....	.....	.....	10,535	10,535	.....	.....	.....	93,921	.....	36,602	36,602	
.....	.....	.....	2,367	2,367	.....	.....	.....	1,46,746	7,802	46,934	54,736	
.....	.....	.....	18,969	18,969	.....	.....	.....	3,14,697	36,963	57,226	94,189	
.....	.....	.....	50,217	50,217	.....	.....	.....	7,07,957	51,504	1,75,416	2,26,920	
.....	.....	.....	610	610	.....	.....	.....	1,24,511	5,362	1,20,273	1,34,605	‡ Includes office contingencies.
.....	.....	.....	11,974	11,974	.....	.....	.....	1,10,520	6,568	90,411	96,979	§ Includes Rs. 1,732 paid as subsidiers to steamer companies for steamer and boat service,
.....	.....	.....	27,061	27,061	.....	.....	.....	1,16,118	.....	1,70,217	1,70,217	
.....	.....	.....	39,645	39,645	.....	.....	.....	3,51,149	11,900	3,89,901	4,01,801	
.....	.....	.....	8,927	8,927	.....	.....	.....	2,46,414	5,605	88,389	94,054	
.....	.....	.....	20,668	20,668	.....	.....	.....	2,11,930	7,890	66,255	74,145	
.....	.....	.....	12,194	12,194	.....	.....	.....	1,72,838	7,838	51,346	59,184	
.....	.....	.....	1,49,937	1,49,937	.....	.....	.....	5,58,274	11,641	18,566	30,207	
.....	.....	.....	42,120	42,120	.....	.....	.....	2,57,040	3,652	13,453	17,105	
.....	.....	.....	49,896	49,896	.....	.....	.....	2,65,352	15,731	54,693	68,424	
.....	.....	.....	14,849	14,849	.....	.....	.....	1,14,893	500	17,724	18,224	
.....	.....	.....	2,98,591	2,98,591	.....	.....	.....	18,26,741	50,917	3,10,426	3,61,343	
.....	.....	.....	7,032	7,032	.....	.....	.....	2,16,316	2,807	43,351	46,158	
.....	.....	.....	27,369	27,369	.....	.....	.....	1,94,393	12,143	42,336	54,479	
.....	.....	.....	12,668	12,668	.....	.....	.....	1,52,847	1,367	89,464	90,831	
.....	.....	.....	3,114	3,114	.....	.....	.....	1,06,119	6,742	26,116	32,858	
.....	.....	.....	50,183	50,183	.....	.....	.....	6,49,675	23,059	2,01,267	2,24,326	
.....	.....	.....	.....	.....	.....	.....	.....	1,00,789	.....	44,913	44,913	
.....	.....	.....	5,563	5,563	.....	.....	.....	64,777	1,842	28,211	30,053	
.....	.....	.....	183	183	.....	.....	.....	52,911‖	.....	14,995	14,995	‖ There was refund of Rs. 648-1.
.....	.....	.....	5,746	5,746	.....	.....	.....	2,18,477	1,842	88,119	89,961	
.....	.....	.....	6,25,260	6,25,260	.....	.....	.....	61,72,240	2,47,044	16,82,062	19,30,006	

FORM No. IV.

Statement showing the details of the works undertaken for the improvement of sanitation in the districts of Bengal during the year ending 31st March 1890.

IMPROVEMENT OF WATER-SUPPLY.									IMPROVEMENT OF VILLAGE SITES, &c., INCLUDING REMOVAL OF RANK VEGETATION.					CONSERVANCY OF TOWNS AND VILLAGES.				SANITARY ARRANGEMENTS AT FAIRS AND FESTIVALS.		OTHER OBJECTS CALCULATED TO PROMOTE THE SAFETY, HEALTH, COMFORT, AND CONVENIENCE OF RURAL POPULATION.		REMARKS.
New tanks dug.		New wells sunk.		Existing sources of supply repaired or otherwise improved.		Watchmen employed to guard sources of drinking water-supply.			Village site improvements i.e., laying out streets, drains, &c.		Removal of prickly-pear and rank vegetation.				Scavenging establishment.							
Number of works.	Cost.	Number of works.	Cost.	Number and description of works.	Cost.	Sources and number of men employed.	Cost.	Total expenditure.	Number of villages.	Cost.	Number of villages.	Cost.	Total expenditure.	Names of towns and villages conserved.	Number of men and of carts.	Cost.	Arrangements made for the supervision of these establishments.	Names of places conserved.	Cost.	Particulars.	Cost.	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
...	...	Rs. A. P.	7	Rs. A. P. 458 4 6	.....	Rs. A. P.	Rs.	Rs. A. P. 458 4 6	.....	Rs.	.....	Rs. ...	Rs. ...	...	...	Rs. ...	.....	.....	Rs. A. P.	.....	Rs.	
					Three old tanks re-excavated and improved. 374 2 0	.....	.....	.....	.....	.....	.....	...	...	...	...	...	.....	.....	.....	.....	Cost of vaccinating in a village.	10	
...	...	.....	4	491 0 0	Two wells improved and re-excavated. 204 0 0	.....	.....	1,069 0 0	.....	.....	.....	...	...	...	...	...	.....	.....	.....	.....	Drainage of a small quarter of the Rampore Hât town.	27	
					578 0 0																	
...	...	.....	...	.....	1	941 0 0	.....	.....	941 0 0	.....	.....	.....	...	...	...	...	...	.....	.....	.....	.....	.....	760	
bad	...	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	...	...	..	...	...	.....	.....	.....	Two drainage cuts (northern and southern) which serve the purposes of sanitation by draining the rain-water of the town of Moorshedabad to the Gobra nullah during the rainy season.		
) ...	...	.....	...	.....	Clearing tanks at— Khanpur ... 40 0 0 Bhalurghat ... 30 0 0 Khadimpur ... 14 0 0 Kidderpur ... 100 0 0	.....	.....	184 0 0	.....	.....	Clearing jungle at— Thakurgaon ... 53 Balurghat ... 16 69	...	69	...	...	...	.....	.....	.....	Keeping in order the drainage channel from Dinagepore to Gouripore.	474	

gpore ...	...	......	10	980 0 0	... ..	.....	....	......	980 0 0	......	....	......	...	...	...	...	...	...		...	Improvement of the drainage of the town of Rungpore and Mygunge. The old channel of the Ghagot river, which passes through the town, has been re-levelled, straightened and improved, and a sluice is to be constructed at the head to regulate the supply from the flowing Ghagot. The work is in progress, and the total cost is estimated at Rs. 60,000. The money has been contributed partly by the District Board, partly by the Municipality, and partly by private contribution.	60,000	
bna ...	1	2,630 0 0	4	55 0 0	......	......	....	......	2,105 0 0*	......	....	......	...	...	...	...	...	......	...	......	......	......	* This includes also the cost of collecting materials for 10 masonry wells.
oca ...	...	....	...	....	......	....	.....	......	......	...	......	..	...	..	..	...	...	......	I. Kartic Barni fair II. Nangalband fair	531 4 11 48 8 2 579 13 1	....	....	
rreedpore .. ckergunge	8 1† 2†	1,538 0 0 1,247 8 0† 4,0 0 0	... 1† 2	.... 257 11 6 263 6 1	4 tanks ... 1 tank‡ ...	634 0 0	....	....	2,167 0 0 2,168 9 7	....	....	... .	... .	...	...	...	...	.. ..	..... .	... .	....	....	† In progress.
ymensingh ...	3	......§	10	... 1	1	100 0 0	......	....	5,267 0 0	107 Village road.	9,231		...	9,33[illegible]	..	.	..	......	......	... ..		......	‡ In progress. The payment could not be made owing to some objection about land. § Cost Rs. 5,267. Figures not shown separately. ¶ A pucca ghât on a large private tank in village Nowpara was constructed.
pperah .. akhally ... ittagong ...	...¶ 3 ...	454 0 0 3,648 0 0	... ...	... .	...... 2 tanks cleared in Cox's Bazar subdivision.	.... 750 0 0	....	....	454 0 0 3,643 0 0 750 0 0	....	....	....	...	... ...	.. ..	.. .	... .	.. ..	. ... ..	.. ..	....	... ..	* Number not stated. Rs. 7,500 were allotted for excavation of tanks, but only Rs. 454 were spent owing to scarcity of labour.
tna ...	...	.. ...	1	34 0 0	{ 2 wells ... { 1 tank ...	292 0 0 82 0 0	}	...	408 0 0	1	193	..	.	193	1	...**	278	... ..	Phalwari	25 0 0	Sign boards at wells set apart for drinking purposes.	27	** Details not furnished.
hahabad ... rbhunga ...	... ...	... .	.. ...	.. ..	... .. 121 wells ...	...... 495 12 0	....	....	... . 495 12 0	... .	... .	65	361	361 ...	...	..	...	....	... .	.. .	... ..	....	This expenditure is shown in the accounts under "repairs."
run ...	...	......	...	......	... ..	... ..	... ..	...	..	......	...	...	...	..	.	.	..	......	Sonepore, [illegible], [illegible], and Sihouri,	3,639 0 0	...	......	No arrangement could be made for village sanitation.
nghyr ...	...	......	21	††4,510 0 0	Wells	670 0 0	....	...	5,189 0 0	16	452	...		159			...	...	... ..	... .	... .	..	†† No account is kept of the number of wells repaired or cleaned.

RESOLUTION ON THE ADMINISTRATION REPORT OF THE HOWRAH BRIDGE FOR THE YEAR ENDING ON THE 31ST MARCH 1890.

No. 3219Marine.

GOVERNMENT OF BENGAL—MARINE DEPARTMENT.

RESOLUTION.

Dated Calcutta, the 29th November 1890.

READ—

Administration Report of the Howrah Bridge for the year ending on the 31st March 1890:

Read again—

Public Works (Marine) Proceedings (A.) for January 1890, Nos. 1 to 3, being the Administration Report of the Howrah Bridge for 1888-89, together with the Resolution recorded thereon.

The actual receipts and expenditure of the Bridge during the year under review, as compared with those of the previous nine years, are shown in the subjoined statement:—

PARTICULARS.	1889-90.	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.	1882-83.	1881-82.	1880-81.
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts from Railway traffic	1,19,727	1,28,985	2,91,678	4,02,495	3,53,210	2,89,125	3,79,501	3,25,556	3,09,038	2,56,251
Ditto local do.	.. ..	94,000	1,27,253	1,40,740	1,40,687	1,28,301	1,22,200	1,11,813	1,10,959	99,997
Ditto hire of steamer *Helvetia* .. .	57	996	419	489	470	446	937	2,219	1,951	2,032
Receipts from hire of steamer *Howrah* or *Buckland*	14	27	132	.....	.....	100	.....	1,841	4,709	6,211
Interest on Government Securities .	32,182	26,566	24,056	42,088	20,763	22,174	22,174	21,080	12,960	11,062
Proportion of rent of Head Office	582	487	528	528	523	527	574	580	652	652
Sale of engines and boilers of steam-ferry *Howrah* ..	... ..	... ..	... ..	... ..	.....	.....	.....	... ..	.....	4,537
Miscellaneous ..	532	2,008	512	737	646	814	221	942	1,102	363
Proportion of earnings of steam-tug *Hetty* ...	1,770	8,515	13,038	9,303	11,102	17,372	11,088	21,041	13,256	12,636
Rent of bridge approach land	2,962	3,014	2,693	1,876	2,611	1,557	.....	...	.....	... .
Total ..	1,68,826	2,64,716	4,61,269	5,98,256	5,30,012	4,60,416	5,36,695	4,85,681	4,54,627	3 93,741
EXPENDITURE.										
Interest on loans . ..	7,611	7,659	9,486	43,989	79,899	32,082	64,984	76,070	81,186	84,519
Proportion of salaries—Control	12,323	10,209	10,308	12,806	12,713	11,459	12,018	10,402	10,560	11,668
Salaries	32,791	32,591	32,383	32,310	32,254	31,764	31,584	32,114	32,130	32,054
Working expenses	20,427	42,708	18,020	14,145	16,872	14,270	13,956	11,467	13,982	19,157
Repairs	36,983	42,6 7	38,902	50 073	29,213	47,500	32,187	34,137	32,412	12,315
Steamer *Howrah* or *Buckland*	16,645	19,751	14,879	15,347	15,464	16,979	13,646	14,885	19,045	23,646
Proportion of municipal taxes of officers' quarters, storo-yard, and Police quarters and repairs to buildings .	3,542	7,952	5,171	3,615	9,950	10,890	8,141	1,490	1,644	1,211
Miscellaneous ...	. ....	... ..	.....	.. ...	.....	112	1,822	.....	.....	7,080
Proportion of establishment, &c., of steam-tug *Hetty*	11,074	10,560	11,052	12,231	10,932	10,667	11,384	11,299	12,664	8,369
Contribution for overbridge at Howrah	.....	... ..	. ....	. ...	.. .	.....	... ..	.....	25,000	.....
Renewals	. ..	25,094	7,846	2,415	7,608	14,623	2,499	2,674	5,048	.....
Proportion of salary of Traffic Manager	375	4,500	4,500	.....	.....	.....	.....	.....	.....	.....
Total ...	1,41,771	2,04,241	1,52,607	1,87,021	2,14,926	1,90,346	1,91,721	1,94,545	2,34,152	2,00,019
Net revenue ..	27,055	60,475	3,07,662	4,11,235	3,15,087	2,70,070	3,44,974	2,91,136	2,20,475	1,93,722
GRAND TOTAL ...	1,68,826	2,64,716	4,60,269	5,98,256	5,30,012	4,60,416	5,36,695	4,85,681	4,54,627	3,93,741

2. The Committee appointed by the Government in January 1888 to consider the revised scale of tolls and fees which should be levied after the Bridge debt had been paid off, estimated that the annual income of the Bridge, after the abolition of the local tolls and the exemption of rice, grain, pulses, seeds and salt from the payment of the terminal charge, would amount to Rs. 1,57,597. The result of the year, which was the first complete year in which the abolition of the local tolls and the terminal charge on the staples of traffic mentioned had effect, shows that the actual receipts exceeded the estimate of the Committee by Rs. 11,229.

3. The net revenue of the year under review amounted to Rs. 27,055, making with the net revenue of previous years a total net revenue of Rs. 34,27,558.

The following statement shows how this amount has been appropriated:—

	To end of 1888-89.	In 1889-90.	Total
	Rs.	Rs.	Rs.
Sinking Fund paid to Government on the Bridge debt	22,41,800	.....	22,41,800
Proportion of Sinking Fund on consolidated loan due to Government for Head Office and officers' quarters paid to Government ...	10,933	1,093	12,026
Proportion of Sinking Fund on debenture loans set aside with the Trustees of the Commissioners' Debenture Loan Account ...	14,096	2,152	16,248
Reserve Fund	7,71,978	..	7,71,978
Pontoon Renewal Fund	.....	48,246	48,246
Contribution for the following new works as detailed in Report for 1884-85:—			
Flat *Howrah*	20 000		
Reserve Section	8,000		
Tug-steamer *Hetty*	1,36,642		
Ferry-steamer *Buckland*	1,23,374		
Police quarters	16,573		
Office machinery and tools for workshop ...	13,321		
Gearing for drawbridge	891		
Two iron buoy boats for floating fenders ...	2,424	.....	3,20,225
	33,59,032	51,491	34,10,523
Balance ...	.....	.....	17,035
Total ...	.....	.....	34,27,558

4. The Bridge was kept in good order during the year, and the sum of Rs. 48,246 was set aside for expenditure when necessary hereafter in renewing the pontoons.

5. During the year the Commissioners were in communication with the Corporation of Calcutta on the subject of the loan of Rs. 2,00,000 from the Bridge reserve fund to be applied towards meeting the interest on the capital expended on the new Central Road leading from the Bridge to Sealdah. The money had, however, not been paid to the Corporation when the year closed.

6. The Bridge was opened for the passage of vessels on 138 occasions, including 34 special Sunday openings. The following statement shows the number and description of vessels which passed through the opening.—

	1889-90.	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.	1882-83.
Sea-going vessels	362	380	331	295	366	403	409	442
Inland steamers and flats	941	878	899	818	1,102	944	733	664
Steam tugs	491	456	397	387	406	342	381	409
Port Commissioners' vessels ...	53	20	46	56	69	56	58	42
Government steamers and flats ...	16	7	6	10	6	10	.....	.. ..
Total ...	1,863	1,741	1,679	1,596	1,949	1,755	1,621	1,557

7. No sea-going vessels collided with the Bridge in passing through the opening, but there were 115 collisions of other vessels, as compared with 91 and 63 during the previous two years. The increase is attributed to the exceptionally strong freshets and eddies of the year under review. Of the 106 cargo and passenger boats which collided with the Bridge, 14 were sunk. One life was lost—that of a man who jumped overboard as his boat was about to collide with the Bridge.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Bridge Commissioners for information.

Ordered also that this Resolution be published in the Supplement to the *Calcutta Gazette* for general information.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, *Col.*, R.E.,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 29th November 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	BURDWAN DIVN.		
1	Burdwan Nov. 29, '90	Nil	Weather—bright and cold. All crops as good, and all agricultural operations as advanced, as possible. Prices of common rice :— Srs. Burdwan ... ... 16½ Culna ... ... 16 Cutwa ... ... 18 Ranigunge ... ... 17 } per rupee.
2	Bankoora ,, 29, '90	Nil	Weather—seasonable. Prospects of *amun* rice continue good. Reports from mofussil as to extent of damage to *rubbi* crops by locusts not yet received. Common rice selling at 20 seers per rupee at Sudder and 19 seers at Bissenpore.
3	Birbhum ,, 29, '90	Nil	Clear and fine weather. Harvesting of the crops is in progress, and the outturn is a bumper one. Price of coarse rice from 17 to 24½ seers per rupee.
4	Midnapur ,, 29, '90	Nil	Weather—fine and dry; nights cold. *Amun* paddy is being reaped with an average outturn of about 12 annas. Young *rubbi* crops have suffered slightly from a flight of locusts in parts of the Sudder and Ghatal subdivisions. Prices of common rice :— Srs. Sudder ... ... 16 Tumlook ... . 16 Ghatal ... ... 16 Contai ... ... 18 } per rupee.
5	Hooghly ,, 29, '90	Nil	Cold weather set in, though at times close in the day Outturn of *amun* expected to be almost a bumper one. Winter crops are good, but locusts have turned up here and there and are doing slight damage to them. Prices of common rice :— Srs. Sudder ... ... 13½ Serampore ... ... 13½ Jehanabad ... ... 16¾ } per rupee.
6	Howrah ,, 29, '90	Nil	Weather—seasonable. *Amun* crop is being harvested. Prospect of harvest good. Price of common rice 14 to 14½ seers per rupee.
	Central Districts.		
	PRESIDENCY DIVN.		
7	24-Perghs. Dec. 2, '90	Nil	Weather—seasonable. Prospects of crops good. Harvesting of *amun* and sowing of winter crops still going on. Another flight of locusts passed over parts of the Barrackpore, Baraset, and Bussirhat subdivisions during the week, doing slight damage to the *rubbi* crops in Baraset. Any damage done elsewhere not yet reported. Prices stationary.
8	Nuddea Nov. 29, '90	Nil	Weather—seasonable. Harvesting of *amun* going on. Winter crops doing well.
9	Khoolna ,, 29, '90	Nil	Weather—seasonable. Harvesting of *amun* commenced. Prospects favourable except in flooded area.
10	Jessore ,, 29, '90	Nil	Weather—seasonable. Harvesting of *amun* going on. *Rubbi* crops doing well. Locusts appeared in the Narail and Sudder subdivisions and did much damage to the *rubbi* crops in the latter. Agricultural loans are still being issued where they are urgently needed. Price of rice steady.
11	Moorshedabad ,, 29, '90	Nil	Weather—cool. *Amun* is being reaped. *Rubbi* is still being sown. Prospects good.
	RAJSHAHYE DIVN.		
12	Dinagepur ,, 29, '90	Nil	Weather—seasonable. Prospects of *amun* and sugarcane good. *Amun* expected to be a 16-anna crop. Price of rice as before.
13	Rajshahye ,, 29, '90	Nil	Fair weather, and nights and evenings rather cold. Harvesting of early *amun* going on. Condition of *ganja* plants and sugarcane good. Transplantation of tobacco plants not yet completed. Preparation of land for winter crops in progress.
14	Rungpur ,, 29, '90	Nil	Clear cold weather. *Amun* harvest has begun and promises to be a full average one. Tobacco and potatoes coming on well. Sugarcane ripening.
15	Bogra ,, 29, '90	Nil	Weather—seasonable. State and prospects of crops favourable. Harvesting of winter rice and sugarcane has begun in some places. Common rice selling at 15 seers per rupee.
16	Pubna ,, 29, '90	Nil	Weather—seasonable. Prospects of standing crops continue good. Mustard and tobacco are still being sown. Prices lower than before.
17	Darjeeling ,, 29, '90	Nil	Weather—bright. Mornings and evenings cold. In the Terai mustard is in blossom in many places; potatoes, tobacco, and rice doing well. In the Hills *bhutta* has been harvested and *marua* is being harvested. Prospects good.
18	Julpigoree ,, 29, '90	Nil	Weather—getting cool. Harvesting of *kaimanti* rice commenced in places. Sowing of mustard and tobacco going on. Prices continue stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
DACCA DIVN. 19	Dacca Nov. 29, '90	Nil	Weather—seasonable. Harvesting of *amun* going on. Tobacco and chillies are being planted. Mustard, *mung*, and *maskalai* thriving. *Khesari* and *matar* are being sown. Fodder is available. Common rice sold at from 13 to 16 seers per rupee.
20	Furreedpur ,, 29, '90	Nil	Weather—seasonable. State of crops fair. Harvesting of *amun* paddy in progress. Enquiry is being made regarding damage done to the pulses by locusts in the Sudder subdivision. Common rice selling at from 14 to 17 seers per rupee.
21	Backergunge ,, 29, '90	Nil	Weather—cold and seasonable. State and prospects of crops good. Harvesting of *amun* has commenced. Common rice selling at 13¼ seers per rupee.
22	Mymensingh ,, 29, '90	Nil	Weather—almost all the mornings of the week were foggy Cold season has set in. Prospects of *amun* paddy generally excellent. Paddy on high lands being reaped. *Rubbi* sowings not yet over. Coarse new rice sells at 16 seers per rupee.
CHITTAGONG DIVN. 23	Chittagong Dec. 2, '90	Nil	Weather—seasonable. Cultivation of vegetable crop continues. Harvesting of early winter rice in progress. State and prospects of *amun* very good. Prices stationary.
24	Noakholly Nov. 29, '90	Nil	Weather—seasonable. Reaping of *amun* going on. *Rubbi* crops progressing. Prospects good.
25	Tipperah ,, 29, '90	Nil	Weather—cold and sunshiny. *Amun* paddy is being cut; a full outturn is expected. Cold-weather crops—mustard, chillies, &c.—are being sown.
26	Chittagong Hill Tracts. ,, 27, '90	Nil	Weather—seasonable with foggy mornings. Harvesting of cotton continues. Late plough-paddy ripening. Sowing of mustard nearly over. Lands are being ploughed for tobacco and chillies. Common rice being sold at 11 seers 6¾ chittacks per rupee.
BEHAR.			
PATNA DIVN. 27	Patna Nov. 29, '90	Nil	Weather—cool. Paddy being harvested. *Rubbi* and poppy sowings finished, and prospects continue favourable. Cotton and *rahar* doing well. Prices of food-grains almost stationary.
28	Gya ,, 29, '90	Nil	Weather—cold and seasonable. Harvesting of paddy going on. Prospects of *rubbi* and poppy good. Prices of food-grains stationary.
29	Shahabad ,, 29, '90	Nil	Weather—bright and cool with light west winds. Harvesting of paddy is being pushed on. Prospects of *rubbi* and opium excellent.
30	Durbhunga ,, 29, '90	Nil	Weather—seasonable. Harvesting of rice going on. *Rubbi* looks promising. Poppy sowing almost completed and plants reported to be healthy. Tobacco and *alua* doing well. Price of common rice varying from 14 to 16 seers per rupee.
31	Muzufferpur ,, 29, '90	Nil	Weather—seasonable. Prospects of all crops continue excellent. Weather has been most favourable for the poppy crop.
32	Sarun ,, 29, '90	Nil	Weather—seasonable. *Rubbi* and poppy sowings still going on; prospects excellent. Sugarcane has attained its maturity and pressing will shortly commence.
33	Chumparun ,, 29, '90	Nil	Weather—fair and cool. *Rubbi* sowings have freely germinated, and are coming on well. Harvesting of paddy has commenced; estimated outturn 16 annas.
BHAGULPORE DIVN. 34	Monghyr ,, 29, '90	Nil	Weather—seasonable. Harvesting of winter rice has commenced in places. *Rubbi* sowings nearly finished. Early sowings growing well.
35	Bhagulpore ,, 29, '90	Nil	Weather—seasonable. All crops doing well. Sowings of linseed are up to average. Rice crop promises to be a bumper one.
36	Purneah ,, 29, '90	Nil	Weather—nights cool; sun still hot in day. *Kurthi* and *kalai* being reaped. State of crops continues good.
37	Maldah ,, 29, '90	Nil	Weather—seasonable. Some of the winter rice is ripe, and the harvest has begun. *Kalai*, mustard, wheat, barley, &c., are thriving very well. Common rice selling at from 13 to 18 seers per rupee.
38	Sonthal Perghs. ,, 29, 90	Nil	Weather—seasonable. Rice harvest going on briskly with good outturn. Prospects of spring crops excellent except where damaged by locusts.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	39	Cuttack Nov. 29, '90	Nil	Weather—seasonable. Harvesting of *laghu sarad* continues. Planting of tobacco has just commenced.
	40	Pooree „ 27, '90	Nil	Weather—seasonable. Late *sarad* ripening. *Laghu sarad* being harvested. Miscellaneous crops doing well. Price of common rice 21 to 27 seers per rupee.
	41	Balasore „ 29, '90	Nil	Weather—seasonable. Winter rice being harvested. *Rubbi* crops promise well in the Bhuddruck subdivision.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	42	Hazaribagh Nov. 29, '90	Nil	Weather—clear and cold. Harvesting of winter rice continues; outturn 16 annas almost everywhere expected. *Rubbi* crops doing well. Poppy sowings completed; prospect seems to be good.
	43	Lohardugga „ 29, '90	Nil	Weather—seasonable. Rain is badly wanted for *rubbi*. Harvesting of winter rice is being carried on vigorously.
	44	Singbhoom „ 29, '90	Nil	Weather—seasonable. Harvesting of rice continues with a splendid outturn everywhere. *Rubbi* crops favourably reported on from all quarters. Price of rice stationary.
	45	Manbhoom „ 29, '90	Nil	Weather—seasonable. Harvesting of paddy continues vigorously. Outturn of *jarin tussur* good. Rice selling at from 20 to 25 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 2nd December, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 23rd to 29th November 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Nov.	23rd	138·3	9·0	30·083	71·0	79·4	18·1	61·3	65·7	0·564	62·4	76	NNE and calm ..	59	Nil	Chiefly clear, ≏.
,,	24th	133·3	8·4	·064	69 7	78·4	18·1	60·3	64·2	·530	60·6	74	N by E, NNW and calm.	50	,,	Chiefly clear.
,,	25th	132·0	5·6	·044	68·0	77·0	17·3	59 7	63 6	·530	60 6	79	NNE and calm ...	34	,,	Partially cloudy, ≏, ≡.
,,	26th	131·5	9·5	·021	68·0	77·8	20·0	57·8	63·1	·514	59 7	76	N and calm ...	24	,,	Chiefly clear, ≏, ≡.
,,	27th	134·5	9·6	·015	68 0	78 7	20 4	58 3	62·8	·504	59·2	74	NNW and calm ...	23	,,	Clear, ≏.
,,	28th	131·1	8·7	·033	67·1	77·3	19·2	58·1	62·8	·518	59 9	79	NNE and calm ...	37	,,	Chiefly clear, ≏.
,,	29th	132·4	9·2	·052	67·7	77·7	19·5	58·2	63·6	·535	60·8	79	NNE and calm ...	27	,,	Clear, ≏.

	Inches.
The mean pressure of the seven days	30·045
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	30·002
	Hours.
The total number of hours of bright sunshine	60·0
The maximum possible number of hours of sunshine	76·2
	°
The mean temperature of the seven days	68·5
The average temperature of the corresponding period for 24 years, S.-G.'s Office	71·5
The extreme variation of temperature	21·6
The maximum temperature	79·4
	Miles.
The highest velocity of the wind in one hour	8
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	77
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	71
	Inches.
The total fall of rain from 23rd to 29th November 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·01
The total fall from 1st January to 29th November 1890	61·25
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	65·15

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

≏ dew, ≡ fog.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 1st December 1890.

Meteorological Report of the Province of B

week ending Friday, the 28th of November 1890.

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean
Orissa.	Pooree	Pooree ...	30·101	30·114	—	NNW	165	83·2	23rd Nov.	62·6	26—28 Nov.	81·9	65·0	73 5	—
		Gopalpore ...	30·106	30·128	+·102	NNW	243	83·2	24th ,,	60·9	27, 28 ,,	80·4	63·0	71·7	—1
		False Point ...	30·095	30·118	+·067	NNW	147	81·4	23rd ,,	56·5	28th ,,	79·9	58·8	69·4	—2
	Cuttack	Cuttack ...	30·054	30·139	+·086	Calm		84·3	23rd ,,	59·3	27, 28 ,,	83·2	61·2	72·2	—1
	Balasore	Balasore ...	30·082	30·144	+ 082	Northerly & Calm	01†	82·4	22, 23 ,,	55·5	26—28 ,,	80·8	57·8	69·3	—(
South-West Bengal.	South-West Midnapore / South 24-Pergunnahs	Saugor Island	30·095	30·123	+·073	NNE	219	80·2	23, 24 ,,	60·4	27, 28 ,,	78 8	62 3	70·6	+(
	Midnapore	Midnapore ...	29·979	30·137	+·066	N	120	83·3	22, 23 ,,	56·2	27th ,,	81·4	60·2	70·9	+(
	24-Pergunnahs ... / Howrah ... / Hooghly ...	Calcutta ..	30·103	30·125	+·070	Calm	34	80 5	22nd ,,	57·8	26th ,,	78·8	59 6	69·2	—.
	Burdwan	Burdwan .	30·040	30·146	+·079	N	41	84·5	22nd ,,	58·9	27th ,,	81·0	61·1	71·1	+
	Bankoora	Bankoora ..	29·808	30·128	+·068	W	53	82·1	22, 23 ,,	50·3	28th ,,	80·9	58·3	69·6	—
	Beerbhoom ... / West Burdwan ...	Ranegunge	29·805	30·157	+·084	North-Westerly	47	7	22, 24 ,,	50·1	26th ,,	80·6	58·1	69·4	—
	Moorshedabad	Berhampore...	30·056	30·126	+·061	North-Westerly	40	80·6	22, 23 ,,	59·2	26—28 ,,	79·2	61·3	70 3	—
	Nuddea	Krishnaghur...	30 075	30·126	+·077	Northerly	62	83·3	24th ,,	55·5	27th ,,	81·6	57·9	69·8	—
	Jessore ... / Khoolna ...	Jessore ...	30·084	30·119	+·077	Calm	9	81·7	23, 24 ,,	58·5	26—28 ,,	81·1	60·4	70·8	—
East Bengal.	Chittagong	Chittagong	30 000	30·100	+·075	NW		84·2	22nd ,,	?	?	81·9	?	?	
	Chittagong Hill Tracts	Demagiri ...	Observations not received.												
	Backergunge	Barrisal ..	30·078	30·091	+·081	Calm	31	81·8	22nd Nov.	59·1	25, 27 ,,	79·8	60·7	70·3	—
	Noakholly	Noakholly ...	30·057	30·103	+·089	N	65	83·0	25th ,,	58·0	25, 28 ,,	81·4	59·4	70·4	—
	Furreedpore	Furreedpore...	30·080	30·121	+·091	Calm	23	80·0	23rd ,,	58·5	26th ,,	77·6*	60 2	68 9	—
	Dacca	Dacca ...	30 071	30·094	+·061	(North-Easterly N	66	83·1	22nd ,,	58·8	27th ,,	81·8	60·0	71·4	—
	Commillah	Commillah ..	30·056	30·095	+·067		11	83·4	22 & 28 ,,	56·5	27th ,,	82·0	58·5	70·3	—
	Mymensingh	Mymensingh	30·053	30·114	+·082	Easterly	32	80·6	23rd ,,	55·5	28th ,,	79·9	58·1	69·0	—
North Bengal.	Bogra	Bogra .	30·030	30·096	+·084	NE	28	80·3	23rd ,,	55·4	27th ,,	79·4	58·4	68·9	—
	Pubna	Serajgunge ..	30·061	30·119	+ 067	NE & N	19	81·0	23rd ,,	54·9	28th ,,	80·0	57·6	68·9	—
	Rajshahye	Rampore Beauleah.	30 045	30·117	+·075	N	73	80·1	24th ,,	57·5	26th ,,	78·9	59·6	69·3	+
	Maldah	Maldah ...	30·058	30·139	—	Northerly	82	81·3	23rd ,,	56·3	27, 28 ,,	79·8	58·4	69·1	.
	Dinagepore	Dinagepore .	29·996	30·124	+·055	NE	?	81·1	22nd ,,	55·2	28th ,,	79·8	57 6	68·7	-
	Rungpore	Rungpore .	?	?	?	NNE	?	81·4	22nd ,,	55·4	28th ,,	79 7	57 6	68·7	-
	Julpigoree ... / Cooch Behar ...	Julpigoree ...	29·840	30·144	+·076	?	?	84·4†	24th ,,	54·3	24th ,,	80·3	56·0	68·2	-
	Darjeeling Hill Tracts ...	Darjeeling ..	23·118	—	+·057	Variable	58	59·0	27th ,,	38·7	22 & 24 ,,	54·1	42·0	48·1	.
North Behar.	Purneah / North Bhagulpore	Purneah ..	30 009	30·143	+·074	Calm	18	80·2	22nd ,,	53·5	25 & 27 ,,	78 5	55·4	67·0	-
	Mozufferpore	Mozufferpore	?	?	—	Calm	32	79·9	22nd ,,	55·3	28th ,,	79·3	59·7	69·5	
	Durbhunga ...	Durbhunga .	29·978	30·154	+·056	Calm	29	80·9	22nd ,,	57·5	24—28 ,,	80·1	57·9	69·0	
	Champaran	Motihari ...	29·929	30·169	+·104	WSW	49	81·2	22nd ,,	51·9	25 & 27 ,,	80·0	53·1	66·6	
	Sarun ...	Chupra .	29·948	30·153	+·083	Calm	13	79·8	22 to 24 ,,	50·9	26 & 28 ,,	79·2	52·1	70·7	
South Behar.	Shahabad	Dehree .	29·785	30·161	+·062	SW	17	82 3	22nd ,,	53·0	27, 28 ,,	80·8	54·8	67·8	
		Buxar .	?	?	?	Variable	46	80·9	24th ,,	53·9	25th ,,	79·1	36·4	67·8	
		Arrah .	29·942	30·144	+·071	Variable	3	81·1	23rd ,,	53·6	28th ,,	80 3	55·5	67·9	
	Gya .	Gya .	29·770	30·171	+·071	S	110	81·9	22nd ,,	54·4	28th ,,	80·7	56·3	68·5	
	Patna . ..	Bankipore ..	29·971	30·165	+·064	Calm	20	79·7	22nd ,,	55·8	28th ,,	79·3	58·2	68·7	
	South Bhagulpore / Monghyr .	Bhagulpore ...	29·971	30·141	+·074	Calm	2	81·3	22nd ,,	54·5	25th ,,	79·7	56·5	68·1	
	Sonthal Pergunnah ..	Doomka ..	29·618	30·146	+·072	NW	57	80·6	22, 23 ,,	54·1	25th ,,	79·3	56·1	67·7	
	Hazaribagh	Hazaribagh	28·982	30·171	+·065	Calm	81	77·9	22nd ,,	53·2	28th ,,	76·0	54·8	65·4	
Chutia Nagpur.	Lohardugga ... / Manbhoom ...	Ranchee ...	27·948	30·155	+·063	Calm	75	79·4	25th ,,	51·9	25th ,,	76·6	53·4	65·1	
	Singbhoom	Chyebassa ...	Observations incomplete.												

* Mean of six days.

† Explanation.—*Summary.*—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period ... humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. T... normal means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question dur... the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

Meteorological Division.	Amount of cloud at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. Rainfall. Of week. Mean for district.	Normal mean.	Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 15th May 1890. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
Orissa.	4·3	Nil	Nil	0·12	1·82	2·13	—0·31	65 77	54·46	11 31	0·0	0 3	Pooree ...	Pooree	Orissa.
	1·0	Nil											Gopalpore ...		
	4·7	Nil											False Point ..		
	3·9	Nil	Nil	0·15	1·97	1·09	+0·88	65·64	50·89	+12·75	0·0	0 3	Cuttack	Cuttack	
	0·4	Nil	Nil	0 11	0·87	0·87	0	61·26	52·61	+8 65	0 0	0 2	Balasore	Balasore	
South-West Bengal.	4·6	Nil	Nil	0 03	0·04	0·60	+0·04	66·29	61·60	4 69	0 0	0·1	Saugor Island	South-West Midnapore / South 24-Pergunnahs	South-West Bengal.
	0·9	Nil	Nil	0·03	Nil	0·20	—0·20	50·00	50·81	0·81	0·0	0·1	Midnapore	Midnapore	
	1·9	Nil	Nil	0·04	0·07	0·31	—0·24	55·16	50·87	+4 29	0·0	0 1	Calcutta ..	24-Pergunnahs... ... / Howrah ... ... / Hooghly	
	1·1	Nil	Nil	0·01	0·25	0 31	—0·06	61·41	46·13	+15·28	0·0	0·1	Burdwan .	Burdwan	
	0·7	Nil	Nil	0·04	0·01	0·41	—0·40	52 02	51·93	+0 09	0·0	0·1	Bankoora	Bankoora	
	0	Nil	Nil	Nil	0·35	0·14	+0·21	63 93	51·59	+12·34	0·0	0·0	Ranegunge ..	Beerbhoom ... ... / West Burdwan	
	1·4	Nil	Nil	0·01	0·33	0 23	+0·10	60·55	49·89	+10·66	0·0	0·1	Berhampore	Moorshedabad ...	
	1 7	Nil	Nil	0·03	0·04	0·33	—0·29	55 03	48 03	+6 10	0·0	0·1	Krishnaghur	Nuddea	
	2·9	Nil	Nil	0·08	0·06	0·38	—0·32	53 51	52·60	+0·93	0·0	0·1	Jessore ..	Jessore ... ... / Khoolna	
East Bengal.	5·6	Nil	Nil	0·60	1·37	2 15	—0·78	119·01	113·55	+6 5	0·0	0·5	Chittagong	Chittagong	East Bengal.
			Nil	0·40	0·42	2·00	—1·58	73·33	79·77	—6·45	0·0	0·5	Demagiri	Chittagong Hill Tracts	
	1·1	Nil	Nil	0·21	Nil	1·42	—1·42	68·16	75·77	—7·61	0·0	0 3	Barrisal	Backergunge	
	0	Nil	Nil	0·05	Nil	2 55	—2 55	97·83	105 71	—7·83	0 0	0·5	Noakholly	Noakholly	
	0·7	Nil	Nil	0·12	Nil	0·52	—0·52	45·42	54 87	—0 45	0·0	0·1	Furreedpore	Furreedpore	
	2·4	Nil	Nil	0·13	Nil	0·76	—0 76	58 19	59·83	- 1·64	0·0	0 1	Dacca	Dacca	
	1·3	Nil	Nil	0·14	Nil	0·72	—0·72	60·11	67 67	—7·56	0·0	0·1	Commillah	Tipperah	
	1·7	Nil	Nil	0·02	0·17	0 31	-0·14	75·85	68·10	+7·75	0·0	0 1	Mymensingh	Mymensingh	
North Bengal.	0	Nil	Nil	0·03	0·41	0·34	+0·07	78 99	56 90	+22·09	0 0	0 1	Bogra .	Bogra	North Bengal.
	0·3	Nil	Nil	0·02	0·57	0·27	+0·30	54·95	52·80	+2 15	0 0	0 0	Serajgunge	Pubna	
	0·3	Nil	Nil	Nil	0·93	0 19	+0·74	75·86	52·81	+23 05	0·0	0·2	Rampore Beauleah	Rajshahye	
	0	Nil	Nil	0·01	0·02	0·19	—0·17	62·14	53·59	+8·55	0 0	0·1	Maldah	Maldah	
	0	Nil	Nil	0 03	Nil	0·10	—0·10	8 ·74	56·25	+25·49	0 0	0·1	Dinagepore .	Dinagepore	
	0·1	Nil	Nil	0·01	Nil	0·09	—0·09	106·61	73·18	+33·43	0·0	0·1	Rungpore ..	Rungpore	
	0	Nil	Nil	0·02	Nil	0·06	—0·06	154·51	109·59	+44·92	0·0	0·1	Julpigoree ..	Julpigoree ... ... / Cooch Behar	
	0·7	Nil	Nil	0·04	0·07	0 31	-0·24	165·65	1 · 88	+45 77	0 0	0·1	Darjeeling ..	Darjeeling Hill Tracts	
	0	Nil	Nil	0·03	Nil	0·06	—0·06	80·67	58·05	+22·62	0 0	0·1	Purneah ..	Purneah ... ... / North Bhagulpore ...	North Behar.
	0	Nil	Nil	0·03	Nil	0 09	—0·09	52·57	12·76	+9·81	0 0	0·1	Mozufferpore ..	Mozufferpore	
	0	Nil	Nil	0·03	Nil	0·06	—0·06	57·63	43 95	+13·67	0·0	0 1	Durbhunga ..	Durbhunga	
	10	Nil	Nil	Nil	Nil	0·01	—0·01	68 47	45·90	+22 57	0·0	0 0	Motihari ..	Chumparan	
	0	Nil	Nil	0·10	Nil	0·19	—0·19	53 69	41·80	+11·74	0·0	0·2	Chupra ..	Sarun	
South Behar.	0·7	Nil											Dehree ...		South Behar.
	1·4	Nil	Nil	0·11	Nil	0·26	—0·26	49 59	39 32	+10·27	0·0	0·2	Buxar ..	Shahabad	
	1·1	Nil											Arrah ..		
	0·6	Nil	Nil	0·10	Nil	0·24	—0·24	56·93	40·81	+16·12	0·0	0·2	Gya .	Gya	
	0	Nil	Nil	0·09	Nil	0·20	—0·20	48·10	40·61	+7·49	0·0	0·1	Bankipore ..	Patna	
	0	Nil	Nil	0·08	Nil	0·20	—0·20	52·25	42·54	+9·71	0 0	0 1	Bhagulpore ...	South Bhagulpore / Monghyr	
	0	Nil	Nil	0·03	0·38	0·16	+0·22	63·05	50·26	+13·39	0·0	0·1	Doomka ..	Sonthal Pergunnahs ..	
	0	Nil	Nil	0·11	0·01	0·36	—0·35	49·45	46·20	+0·25	0·0	0·2	Hazaribagh ..	Hazaribagh	
Chutia Nagpur.	0	Nil	Nil	0·17	Nil	0·44	—0·44	47·01	47·39	—0·38	0·0	0·3	Ranchi ...	Lohardugga ... ... / Manbhoom	Chutia Nagpur.
			Nil	Nil	0·10	0·17	—0·07	41·53	46·21	—4·68	0·0	0·0			
			Nil	Nil	Nil	Nil		33·94	50·47	—16·53	0·0	0·0	Chyebassa ..	Singbhoom	

The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
ud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of November 18

Meteorological division.	District.	Station.	Rainfall. Saturday, 22nd November.	Sunday, 23rd November.	Monday, 24th November.	Tuesday, 25th November.	Wednesday, 26th November.	Thursday, 27th November.	Friday, 28th November.	Total number rainy days.	Total Rainfall week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa	Pooree	Pooree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·28	1·85	69·97	
		Khurdah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·23	1·43	65·16	
		Banpur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·10	2·05	61·95	
		False Point	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·49	2·15	66·10	
		Gop	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·93	?	65·96	
		Satpara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·93	?	45·07	
		Pipli	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·29	?	75·90	
	Cuttack	Jagatsingpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·60	1·01	63·67	
		Banki	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·25	2·03	68·09	
		Cuttack	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·94	0·96	62·14	
		Kendrapara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·59	0·84	53·15	
		Jajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·46	0·02	53·16	
		Dharmsala	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	:	51·18	
		Salipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·70	'	52·15	
	Balasore	Chandbali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·41	1·43	52·06	
		Bhuddruck	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·68	0·93	57·85	
		Sorah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	0·68	60·84	
		Balasore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·35	0·79	64·13	
		Jellasore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·21	0·40	65·83	
		Haripodah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·61	0·98	62·91	
South-West Bengal	Midnapore	Contai	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·45	0·63	67·73	
		Sangor Island	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·44	0·82	69·05	
		Tumlook	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	57·99	
		Midnapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	47·47	
		Ghattal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	44·61	
		Kuhrahaty	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·39	
		Garbetta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·23	
	24-Pergunnahs	Diamond Harbour	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	0·35	62·13	
		Canning Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·69	
		Alipore Jail	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·29	61·06	
		Barrackpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47	59·91	
		Dum-Dum	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·69	0·21	56·34	
		Baraset	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·51	54·84	
		Sueserhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	58·67	
	Howrah	Howrah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·80	51·34	
		Mohesaeka (*Goloberiah*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	59·67	
	Hooghly	Serampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·19	55·30	
		Hooghly	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	52·05	
		Jehanabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	51·57	
	Burdwan	Culna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·87	54·31	
		Burdwan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·56	0·29	53·53	
		Cutwa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	54·36	
		Ranegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	0·43	60·54	
		Manbur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·41	?	45·21	
	Bankoora	Bankoora	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	57·76	
		Bishenpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	59·95	
		Maliara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·36	59·28	
		Khatra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·90	40·06	
		Indas	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·97	
		Kotalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·94	
		Anda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·11	
		Gangajalghati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·75	
		Easipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·29	
		Vonamukhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·74	
	Birbhoom	Bh. Soory	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·33	0·11	62·28	
		Hetampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·76	0·13	60·31	
		Bampore Hau	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·50	0·17	72·66	
		Hatpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·19	?	57·46	
		Nararat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·46	
	Nuddea	Ranaghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	55·46	
		Kishnaghur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·34	61·66	
		Chooadanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	57·03	
		Meherpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	58·06	
		Koushtea	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	53·09	
	Khoolna	Satkhira	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·48	0·39	57·61	
		Hagirhat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	62·51	
		Khoolna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	52·88	
		Vakipur	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·90	?	70·09	
		Rampal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·75	
	Jessore	Narail	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	51·43	
		Jessore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	59·49	
		Jhenidah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	54·16	
		Magoorah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	53·44	
		Bongong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	46·86	
	Moorshedabad	Kandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·60	0·33	64·89	
		Berhampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·24	59·27	
		Lalbagh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	62·87	
		Asimgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	58·27	
		Jungipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·60	0·11	51·85	
		Lalgola	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·45	0·31	65·35	
		Jiagunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
		Akhriganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·99	
		Patkabari	.....	.....	.....	.....	.....	.....	.....						
East Bengal	Chittagong	Cox's Bazar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·37	2·99	129·48	
		Chittagong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·97	1·80	108·99	
		Kutubdia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·25	?	113·85	
		Sitakunja	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·15	?	81·41	
	Chittagong Hill Tracts.	Rangmati	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	1·95	65·98	
		Ruma	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	2·02	77·71	
	Backergunge	Patuakhally	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·66	79·01	
		Perozepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·19	62·91	
		Barrisal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·25	65·76	
		Bacia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·57	64·99	

ement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of November 1890—contd.

logical sion.	District.	Station.	Rainfall. Saturday, 22nd November.	Sunday, 23rd November.	Monday, 24th November.	Tuesday, 25th November.	Wednesday, 26th November.	Thursday, 27th November.	Friday, 28th November.	Total number rainy days.	Total Rainfall week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
ENGAL eld.		*Gournadda*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·66	?
		Bauphai	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73·26	?
	Noakholly	Noakholly	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	92·84	106·54
		Fenny	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·28	103·40	104·75
		Harishpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	126·51	'
		Ramganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·28	'
	Furreedpore	Madaripore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·46	41·91
		Furreedpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	48·45	57·27
		Goalundo	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	44·90	52·61
	Dacca	Munshigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·86	57·78
		Dacca	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·52	54·68
		Naraingunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·27	60·71	
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	59·71	
		Joydebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·26	
	Hill Tipperah	Agartola	.....	.....	.....	.....	.....	.....	.....						
		Comilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·64	67·24
		Chandpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·56	56·78
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·57	54·04
		Kamehandra-gore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·11	
		Nasirnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·81	
		Daudkandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	80·44	
		Kasba	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·71	
		Laksham	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·55	
	Mymensingh	Kishoreegunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·41	68·87
		Atia (*Tangail*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·81	0·24	56·62
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	0·31	73·30
		Jamalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·24	79·16
		Netrekona	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·35	80·54
		Subornakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	?	58·25
		Durgapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	?	118·07
		Sherepore Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	?	67·41
		Dewanganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	?	72·90
TH IGAL.	Pubna	Pubna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·16	46·08
		Serajgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·14	0·38	63·81
	Bogra	Sherepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·59	0·56	77·86	
		Nowkhilia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	0·51	66·79
		Bogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	0·28	79·92
		Panchbibi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·02	91·46
	Rajshahye	Sesuleah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·95	0·15	72·29	
		Nattore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·55	0·26	88·84	
		Nagaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	0·17	80·16
		Lalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		52·38
		Manda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		48·04
	Maldah	Maldah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·17	64·65	
		Chanchal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	59·62	
		Gajol	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·50	
		Sibganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	?	
	Dinagepore	Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·09	67·94
		Churamon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·06	80·28
		Raigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·10	92·75
		Dinagepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·09	86·80
		Balooraha	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	91·01	
		Thakoorgoan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	107·04	
	Rungpore	Buxwanigunge (*Gyabanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·11	123·00
		Rungpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·09	98·86
		Kurigrau	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·16	95·59
		Bogdogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03		111·38
		(*Nilphamari*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		97·52
		Dilgore	.....	.....	.....	.....	.....	.....	.....						
	Julpigoree	Julpigoree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10		156·26
		Alipore Doear	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		187·47
		Falisootta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		146·30
		Debigunj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		135·70
		Bhagatpore	.....	.....	.....	.....	.....	.....	.....						
	Cooch Behar	(*Nagracatta*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		183·64
		Dinhatta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04		128·95
		Cooch Behar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08		169·37
		Mekliganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04		149·35
		Mashbhanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09		171·01
	Darjeeling Hill.	Buxa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22		210·85
		Silliguri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32		178·31
		Darjeeling	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18		150·56
		Kalimpong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	0·23		123·00
		Kurseong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		192·78
I BEHAR	Purneah	Kissengunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·06	105·38
		Arrareah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·05	83·78
		Purneah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·08	89·36
		Gondwara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		100·45
		Matiari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		63·98
		Kaligunj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		118·45
	North Bhagulpor	Maddapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06		61·61
		S.opoo)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04		65·21
		Protabgunj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		49·30
	Durbhunga	Tajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·09	51·73
		Durbhunga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·07	58·66
		Madhubani	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·03	69·91
		Bahere	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	?	58·86
		Bosbere	.....	.....	.....	.....	.....	.....	.....						
	Monufferpore	Sitamerhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·01	58·96
		Monufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·10	56·13
		Hajipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	0·14	46·60
		Fare	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	?	70·51
		Mahua	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	?	44·79
		Sahsar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	?	53·18
		Pupri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	?	50·19

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of November 1890—con

Meteorological Division.	District.	Station.	Rainfall. Saturday, 22nd November.	Sunday, 23rd November.	Monday, 24th November.	Tuesday, 25th November.	Wednesday, 26th November.	Thursday, 27th November.	Friday, 28th November.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date
North Behar —concluded.	Champaran ..	Motihari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	72·06	41
		Bettiah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 01	64·89	47
		Bagaha ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
		Burhuriwa .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·36	
	Saran ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	52·67	42
		Sewan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	59·84	43
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	48·27	39
South Behar	Shahabad	Buxar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 17	52·47	41
		Dehree ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	43·14	39
		Bimbooah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·52	41·11	40
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 24	44·19	39
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	66·96	39
		Mohaniah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·07	
	Gya	Aurungabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	59·49	41
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	60·04	41
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	54·84	39
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	53·35	40
		Arwal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·43	
		Daudnagar ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·85	
		Sherghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·81	
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·00	
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·24	
	Patna	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	50·02	41
		Dinapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	52·13	40
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	46·95	41
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	43·25	31
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		50·24	
	Monghyr ...	Begoosserai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	44·29	39
		Monghyr	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	54·84	40
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	60·22	42
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·44	
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·76	
	South Bhaulpore	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 30	59·77	41
		Banka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 13	42·71	43
		Kilgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·06	
		Bongaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	56·86	51
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	50·75	43
		Pakour	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	74·16	5
		Nya Doomka	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0 11	0·18	74·11	5
		Deoghur .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	40·43	49
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·15	0 30	76·43	47
		Mohasama ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48 81	
		Nawhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·30	?	32·28	
Chutta Nagpur.	Hazaribagh ..	Pachamba (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	55·35	46
		Hazaribagh ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·02	0·27	49·07	48
		Somtagurah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·41	38·89	42
		Mahudi Hill's	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	43·02	41
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	56 80	56
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·08	
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·34	
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	
	Lohardugga ...	Lohardugga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	53·19	46
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	43·57	5
		Palamow ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	44·27	42
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·35	?	43·85	
		Ralumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·62	
		Hosseinabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75	
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·30	
	Singbhoom ...	Chyebassa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 23	33·04	50
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	24·85	
		Ghatsilla ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·46	
		Rahargura ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·93	
	Manbhoom ..	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	44·22	41
		Gobindpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·21	0·15	38·84	4
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	?	62·26	
		Barrabhoom	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·15	
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64·71	
		Cha s ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·18	

Explanation.— .... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the ret are wanting, the corresponding spaces in the total rainfall columns are left blank.

Calcutta, *the 2nd December* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 28TH OF NOVEMBER 1890.

THE meteorological conditions during the past week have been typical of north-east monsoon weather. The changes which have taken place from day to day have been in all cases small, and of the usual oscillatory nature which characterises fine settled weather. Barometric pressure has been high and above the normal throughout the week. Temperature, which was at first rather high, has fallen almost steadily during the whole week. Humidity has been also moderate. The sky has been practically cloudless at almost all the inland stations, though it has been slightly clouded at the head of the Bay, and there has been an entire absence of rainfall at all stations.

Pressure was at the commencement of the week above the normal over the whole reporting area, the excess usually amounting to from nine to twelve-hundredths of an inch. On the 23rd a distinct rise, varying usually from two to three-hundredths of an inch, took place. This was succeeded on the 24th by a fall of about equal amount, and the fall continued on the 25th, when it equalled about a fortieth of an inch. Pressure still continued to fall for the following two days, and the decrease on the 26th amounted to about two-hundredths of an inch, while on the 27th it was rather less than this; but still the general pressure was about two to five-hundredths of an inch above the normal. On the 28th the fall of pressure had ceased, and a distinct rise commenced, but this only averaged about two or three-hundredths of an inch. It will thus be seen that pressure has been above the normal throughout the week, and the mean pressure has been from six to ten-hundredths of an inch in excess, the excess being usually largest in the south-western districts.

Temperature at the commencement of the week was above the normal over the whole province except at a few stations in South-West and East Bengal On the 23rd there had been a very distinct fall in all districts except at a few of the western stations in Behar, Chutia Nagpur, and South-West Bengal. A further general fall took place on the 24th, the decrease in the mean temperature at many stations equalling about one and-a-half degrees; so that on this day temperature was more nearly normal, though there was still an excess at the western stations in Behar, and a defect at some of the stations in North Bengal. A further fall of temperature was registered on the 25th, and the whole province on this day showed a defect from the normal. Again on the 26th a general fall of from half to one degree was reported, and temperature became about two to three degrees lower than usual over a large part of the province, though again a slight excess had appeared in Behar. On the 27th a further fall, averaging about half a degree, was recorded, and on the 28th the variations were very small, and at some stations there was a slight increase and at others a decrease of temperature. The general defect of temperature on the 28th was, however, not large, and usually ranged from about one to two degrees.

For the whole week the mean temperature has been below the normal in Orissa and East Bengal by about a degree and-a-half, and in South-West and North Bengal by from half to one degree. In the districts of Behar and Chutia Nagpur, on the other hand, temperature has been in excess of the normal by about one degree.

The distribution of temperature during the week and its variation from the normal are, however, best seen in the table below, where the average maximum, minimum and mean temperatures for the week at nine typical stations in different districts of the province are compared with their normal values for the same period From this table it will be seen that the minimum or night temperatures show greater variation from the normal than the day or maximum temperatures do :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 28th of November 1890.

	Normal mean maximum temperature for the week ending 28th November.	Actual mean maximum temperature for the week ending 28th November 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 28th November.	Actual mean minimum temperature for the week ending 28th November 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 28th November.	Actual mean daily temperature for the week ending 28th November 1890.	Variation of actual mean from the normal.
Cuttack	84·5	83·2	—1·3	63·3	61·2	—2·1	73·9	72·2	—1·7
Calcutta	79·9	78·8	—1·1	61·4	59·6	—1·8	70·6	69·2	—1·4
Dacca	82·5	81·8	—0·7	63·1	60·9	—2·2	72·8	71·4	—1·4
Burdwan	81·3	81·0	—0·3	60·7	61·1	+0·4	71·0	71·1	+0·1
Patna	78·4	79·3	+0·9	55·8	58·3	+2·4	67·0	68·7	+1·7
Gya	79·6	80·7	+1·1	54·7	56·3	+1·6	67·2	68·5	+1·3
Purneah	79·9	78·5	—1·4	55·7	55·4	—0·3	67·8	67·0	—0·8
Hazaribagh	74·5	76·0	+1·5	54·5	54·8	+0·3	64·5	65·4	+0·9
Darjeeling	53·1	54·1	+1·0	40·1	42·0	+1·9	46·6	48·1	+1·5

Rainfall.—As above stated, there has been absolutely no rainfall in Bengal throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 28th of November 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	84·3	55·5	81·3	61·2	71·2	—1·4	Nil	0·12	—0·12	0·0	0 3	—0·3	1·50	1·28	63·27	52.52
South-West Bengal ...	84·5	55·5	80·4	59·9	70·2	—0·8	Nil	0·04	—0·04	0·0	0 1	—0·1	0·17	0·33	56·83	51·33
East Bengal	84·2	55·5*	80·6	59·6*	70·0*	—1·3*	Nil	0·21	—0·21	0 0	0·3	—0·3	0·17	1·07	71·42	73·66
North Bengal	84·4†	54·3	79·7	57·9	68 8	—0·5	Nil	0·02	—0 02	0·0	0 1	—0·1	0·22	0·16	95 09	68·83
North Behar	81·2	51·0	79·4	57·6	68·5	+0·6	Nil	0·04	—0·04	0·0	0 1	—0·1	Nil	0 08	64·38	47·98
South Behar	82·3	53·0	79·0	56·3	68·1	+0·8	Nil	0·08	—0·08	0 0	0·2	—0·2	0·09	0·21	54·66	43·18
Chutia Nagpur	79·4†	51·9†	76·3†	54·1†	65·2†	+1·2†	Nil	0·10	—0 10	0·0	0·2	—0·2	0·02	0·34	46 00	48·28

* Chittagong not included. † Chyebassa not included.

Meteorological Office, Bengal ;
The 2nd December 1890.

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 23rd to 29th November 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.						Hygrometry.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
November...	23rd ...	30·165	71·4	80 9	19·0	61·9	74·8	68 3	·606	64·4	70	...
,, ...	24th ...	·142	70·5	79·1	17·2	61·9	73·8	66·1	·539	61·0	64	...
,, ...	25th ...	·106	69 2	78·5	18·6	59 9	73·1	66·1	·549	61·6	67	...
,, ...	26th ..	·0·5	69 3	79·7	20·8	58·9	73·8	66·1	·539	61·0	66	...
,, ...	27th ...	·079	69·2	79·9	21·4	58·5	73·8	64·6	·488	58·3	58	...
,, ..	28th ..	·093	68·1	78;9	21·0	57·9	73·2	68·1	·620	65·1	76	...
,, ...	29th ...	·121	68·4	78 9	21·0	57·9	73·6	64·6	·490	59·4	59	...

	Inches.
The mean 10 A.M. pressure of the seven days	30·113
	°
The mean temperature of the seven days	69·5
The extreme variation of temperature	23·0
The maximum temperature	81·9
	%
The mean 10 A.M. relative humidity of the seven days	66
	Inches.
The total fall of rain from 23rd to 29th November 1890	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 1st December 1890.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of September 1890.

THE deaths registered in forty-five districts of Bengal during the month of September 1890 were 146,205, and correspond to an annual rate of 26·52 per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is 3·48 higher than the mean rate of the corresponding months of the past five years 1885—89, and is also higher than the rate of the corresponding period of any of the past five years with which comparison is instituted, *vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Monthly average of five years, 1885–89.	1890.
Ratio of deaths per 1,000 of the population per annum	26·40	21·60	20·28	22·08	24·60	23·04	26·52

The following table shows the highest proportions of deaths registered during the month of September 1890, compared with the corresponding month of 1889 :—

Districts.	Ratio per *mille* during— Sept. 1890.	Sept. 1889.	*Districts.*	Ratio per *mille* during— Sept. 1890.	Sept. 1889.
Gya	48·36	42·24	Hazaribagh	33·00	30·60
Shahabad	38·76	42·84	Rajshahye	31·92	21·48
Khulna	38·16	22·32	Julpaiguri	30·96	25·20
Patna	36·36	36·84	Mozufferpore	30·96	23·76
Monghyr	35·88	45·96	Pubna	30·72	19·92
Darjiling	34·44	35·52	Bhagulpore	30·00	31·80
Jessore	33·96	21·60	Sarun	29·76	26·04

The figures for September 1890 against Gya, Khulna, Jessore, Hazaribagh, Rajshahye, Julpaiguri, Mozufferpore, Pubna, and Sarun show an advance towards accuracy in death registration.

The total mortality during the month under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89 :—

	Ratio per *mille* during— Sept. 1890.	Sept. 1889.	Monthly average of five years, 1885–89.
Cholera	·84	1·32	1·56
Small-pox	·06	·10	·03
Fever	20·16	17·52	16·56
Bowel-complaints	·60	·84	·84
Injury	·72	·72	·60
Other causes	3·84	3·84	3·24

Compared with the figures of both the past periods, there is a noticeable increase in the mortality of September 1890 under the head fever, and a sensible decrease in the death-rate from cholera.

The highest annual death-rates from cholera and fever occurred in the following districts :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*
Mozufferpore	6·48	Gya	37·08
Gya	4·44	Khulna	33·48
Shahabad	4·08	Jessore	31·44
Chumparun	2·88	Julpaiguri	29·52
Patna	2·76	Rajshahye	28·92
Durbhanga	2·40	Monghyr	28·80
Sarun	2·40	Pubna	28·44
		Shahabad	27·96
		Hazaribagh	27·24
		Maldah	24·96
		Murshedabad	24·48
		Noakhali	24·24
		Chittagong	23·88
		Patna	23·40
		Bhagulpore	23·40
		Nuddea	22·20

The mortality of the month under review, according to *Sex*, *Class* and *Age*, was distributed as follows: —

According to Sex.

	Ratio per *mille.*
Males	28·20
Females... ...	25·08
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ...	112

According to Class.

	Ratio per *mille.*
Christians ...	18·60
Hindus ...	27·12
Mahomedans ...	25·80
Buddhists ...	16·68
Other classes ...	23·28

According to Age.

	Ratio per *mille.*
Under 1 year	197·64
1 and under 5 years ...	31·08
5 „ 10 „ ...	15·60
10 „ 15 „ ...	13·56
15 „ 20 „ ...	16·08
20 „ 30 „ ...	15·24
30 „ 40 „ ...	17·04
40 „ 50 „ ...	24·00
50 „ 60 „ ...	35·28
60 years and upwards ...	65·76

Detailed information regarding the mortuary statistics of the forty-five districts of Bengal during the month under review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 28th November 1890. *Sanitary Commissioner for Bengal.*

1	2	3			4							5							6		7		8		9
		POPULATION.			MORTALITY ACCORDING TO—																				
					Disease.																Sex.				
					DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.							COMPARISON WITH PREVIOUS PERIODS.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM.		
DIVISIONS.	DISTRICTS.	Males.	Females.	Total.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	*All causes.*	Ratio of deaths per 1,000 of population per annum in the previous month.	Ratio of deaths per 1,000 of population per annum in the corresponding month of the previous year.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
BURDWAN ...	Burdwan	668,295	723,528	1,391,823	...	2	1,612	50	40	527	*2,231*	...	·01	13·80	·36	·24	4·44	*19·20*	16·56	23·40	1,176	1,055	21·09	17·40	120
	Bankura	307,136	334,616	1,041,752	1	3	1,097	43	28	404	*1,576*	·01	·02	12·60	·48	·24	4·54	*18·12*	16·08	20·76	850	726	20·04	16·20	125
	Birbhum	381,563	412,865	794,428	...	...	976	6	32	455	*1,469*	...	...	14·64	·08	·48	6·84	*22·08*	20·28	28·28	741	728	23·24	21·12	110
	Midnapore	1,243,195	1,272,370	2,515,565	12	83	3,847	212	84	776	*5,054*	·04	·36	13·48	·96	·36	5·60	*24·12*	20·40	23·40	2,603	2,451	24·96	23·04	108
	Hughli	315,665	347,385	663,050	4	2	989	111	26	228	*1,360*	·07	·03	17·88	1·92	·36	4·03	*24·60*	19·80	28·20	692	668	26·28	23·04	114
	Serampore	174,366	177,589	351,955	2	2	580	92	19	137	*832*	·06	·06	19·68	3·12	·60	4·56	*28·32*	22·56	29·88	424	408	29·16	27·48	106
	Total (Hughli including Serampore).	490,031	524,974	1,015,005	6	4	1,569	203	45	365	*2,192*	·06	·03	18·48	2·28	·48	4·20	*25·80*	20·76	28·80	1,116	1,076	27·24	24·48	111
PRESIDENCY ...	Howrah	316,479	318,902	635,381	9	25	636	226	38	297	*1,231*	·12	·36	12·00	4·20	·60	5·52	*23·16*	20·88	21·64	673	558	25·44	20·88	121
	24-Pergunnahs ...	860,841	812,521	1,673,362	10	5	2,588	116	126	303	*3,148*	·04	·02	15·48	·72	·84	2·16	*22·56*	19·04	20·76	1,711	1,437	23·76	21·12	113
	Nuddea	805,779	849,942	1,655,721	3	4	3,065	18	136	506	*3,732*	·01	·02	22·20	·12	·96	3·60	*27·00*	15·00	18·96	1,940	1,792	24·80	23·20	114
	Jessore	959,271	980,104	1,939,375	19	2	5,100	5	155	222	*5,503*	·10	·01	31·44	·02	·84	1·32	*33·96*	23·28	21·60	2,444	2,659	33·52	33·52	109
	Murshidabad	586,483	640,307	1,226,790	3	...	2,512	15	77	363	*2,970*	·02	...	24·48	·12	·72	3·48	*29·04*	15·36	25·44	1,547	1,423	31·56	28·64	118
	Khulna	568,402	511,546	1,079,948	3	...	3,018	12	59	344	*3,436*	·02	...	33·48	·12	·60	3·72	*38·16*	27·12	22·32	1,709	1,727	36·00	40·44	89
RAJSHAHYE ...	Dinajpur	782,292	732,054	1,514,346	...	7	2,629	3	109	167	*2,915*	...	·04	24·76	·01	·84	1·32	*23·01*	24·00	25·20	1,57.	1,344	24·00	21·96	109
	Rajshahye	660,710	678,893	1,339,603	1	...	3,232	14	137	185	*3,569*	·008	.	28·92	·12	1·20	1·53	*31·92*	22·82	21·48	1,814	1,755	32·88	30·96	106
	Rungpore	1,067,701	1,030,263	2,097,964	...	...	2,907	9	66	277	*3,259*	...	...	16·56	·04	·36	1·56	*18·60*	17·04	16 21	1,777	1,482	19·92	17·16	116
	Bogra	372,193	361,200	733,393	...	1	1,207	2	62	191	*1,463*	...	·01	19·68	·02	·96	3·12	*23·88*	22·68	20·64	784	679	25·20	22·44	112
	Pubna	648,311	663,417	1,311,728	...	1	3,116	6	99	148	*3,370*	...	·008	25·44	·04	·84	1·32	*30·72*	21·48	19·92	1,765	1,604	32·64	28·92	113
	Darjiling	89,351	66,294	155,645	...	...	250	97	5	95	*447*	...	...	19·20	7·44	·36	7·32	*34·44*	37·20	35·52	250	197	33·48	35·64	93
	Julpaiguri	305,972	276,418	582,390	...	...	1,433	7	15	53	*1,508*	...	...	29·52	·12	·24	1·08	*30·96*	25·20	25·20	822	686	32·16	29·76	108
DACCA	Dacca	1,033,863	1,082,487	2,116,350	32	6	2,537	181	150	550	*3,236*	·12	·02	13·20	·96	·72	3·00	*18·24*	13·20	16·32	1,757	1,449	20·64	15 93	129
	Faridpore	805,989	825,745	1,631,734	5	7	2,100	25	116	266	*2,519*	·01	·04	15·36	·12	·84	1·92	*18·48*	15·72	13·56	1,316	1,173	19·92	17·04	116
	Backerganj	973,479	927,410	1,900,889	3	4	3,313	21	134	1,111	*4,587*	·01	·02	20 83	·12	·84	6·96	*28·92*	21·48	15·48	2,486	2 101	31·60	27·12	112
	Mymensing	1,555,840	1,501,103	3,056,943	33	17	4,494	114	110	587	*4,955*	·12	·06	5·98	·36	·36	2·28	*19·44*	15·96	15·73	2,762	2,193	21·12	17·52	120
CHITTAGONG ...	Chittagong	531,649	600,692	1,132,341	...	...	2,280	55	85	184	*2,584*	...	...	23 88	·48	·84	1·92	*27·36*	21·96	22·56	1,262	1,322	28·44	26·40	107
	Noakhali	415,248	405,524	820,772	24	...	1,658	13	70	155	*1,920*	·24	...	24·24	·12	·96	2·16	*27·96*	30 60	21·84	986	934	24·44	27 60	103
	Tipperah	768,450	745,911	1,514,361	13	...	2,123	24	82	353	*2,597*	·09	...	16·80	·12	·60	2·76	*20·52*	17·64	17·88	1,449	1,148	22·56	18 21	123
PATNA	Patna	856,501	895,058	1,751,559	413	17	3,418	217	117	1,135	*5,317*	2·76	·10	23·40	1·44	·72	7·68	*36·36*	31·12	36 84	2,687	2,340	37·56	35 16	106
	Gya	1,043,441	1,081,241	2,124,682	791	55	6,572	42	149	969	*8,578*	4·44	·24	37·08	·12	·84	5·40	*48·36*	36·84	42·24	4,273	4.305	49·08	47·76	102
	Shahabad	950,250	1,014,659	1,964,909	681	8	4,590	40	94	949	*6,362*	4·08	·04	27·96	·24	·48	5·76	*38·76*	29 84	42·84	3,210	3,152	40·44	37·20	103
	Mozufferpore	1,265,731	1,316,329	2,582,060	1,410	2	4,134	146	258	724	*6,674*	6·48	·008	19·20	·60	1·08	5·34	*32·96*	2 82	23 76	3,677	3,007	34·68	27·36	124
	Durbhanga	1,295,788	1,337,659	2,633,447	535	...	3,800	126	216	341	*5,020*	2·40	·02	17·28	·48	·96	1·44	*22·80*	18·12	24·72	2,718	2,302	27·08	20·64	121
	Sarun	1,085,847	1,199,932	2,285,879	473	5	2,653	512	104	1,832	*5,665*	2·40	·02	14·92	2·64	·96	9 60	*29·76*	22·44	25·04	3,149	2,529	34·68	25 20	137
	Chumparun	870,627	850,981	1,721,608	415	27	2,332	47	135	821	*3,977*	2·88	·12	17·64	·24	·84	5·64	*27·72*	31·08	17·64	2,142	1,835	29·52	25 80	114
BHAGULPORE	Monghyr	968,124	1,000,650	1,968,774	48	2	4,743	46	189	877	*5,905*	·24	·01	28·80	·24	1·08	5·28	*35·88*	22 56	45·96	2,333	2,972	36·24	35·52	102
	Bhagulpore	978,119	987,039	1,966,158	141	...	3,841	77	151	724	*4,934*	·84	...	23·40	·36	·84	4·32	*30·00*	1·96	31·80	2,549	2,385	31 20	28·92	107
	Purneah	937,080	911,607	1,848,687	33	3	2,826	5	49	60	*2,976*	·12	·01	15·24	·02	·24	·36	*19·20*	13·68	13·44	1,482	1,494	18·01	19·93	90
	Maldah	346,988	363,450	710,448	1	...	1,481	7	40	148	*1,677*	·01	...	24·36	·01	·60	2·40	*28·52*	8 24	16·44	915	762	32·64	24·12	135
	Sonthal Pergunnahs ...	785,350	752,763	1,538,093	40	4	2,013	76	42	289	*2,414*	·24	·02	15·36	·12	·24	2·16	*18·36*	14·88	22·32	1,356	1,058	20·64	16 21	127
ORISSA	Cuttack	877,702	917,363	1,795,065	49	9	1,358	278	110	690	*2,494*	·24	·06	9·60	1 90	·72	4 56	*16·56*	18·48	25 32	1,325	1,169	18 00	15 24	113
	Poori	446,709	441,378	888,087	16	33	331	153	64	725	*1,321*	·12	·31	4·44	2·04	·84	9·72	*17·76*	17·16	26·52	635	636	18·36	17·16	106
	Balasore	461,461	483,819	945,280	3	5	847	340	52	587	*1,814*	·03	·06	10·68	4·20	·60	7·08	*22·92*	21·93	23·20	950	864	24·69	21·36	115
CHOTA NAGPORE.	Hazaribagh	544,965	559,839	1,104,742	11	4	2,512	58	57	498	*3,042*	·10	·03	27·24	·60	·60	4·32	*33·00*	25·08	30 60	1,542	1,500	33·84	32·04	105
	Lohardugga	796,657	812,587	1,609,244	...	6	2,544	193	27	997	*3,767*	..	·03	18 96	1·32	·12	7·32	*28·08*	18·24	34·28	1,907	1,860	25·68	27·36	104
	Singbhum	226,681	227,094	453,775	1	1	484	48	31	123	*690*	·02	·02	12·84	1·20	·72	3 24	*18·24*	18·24	22·20	378	312	19 92	16 44	121
	Manbhum	525,328	532,900	1,058,228	5	19	1,576	56	34	413	*2,103*	·04	·12	17·76	·60	·36	4·68	*23·76*	22·44	22·44	1,119	934	25·56	22·08	115
	TOTAL FOR THE PROVINCE.	32,663,700	33,195,834	65,859,534	5,243	371	116,976	3,894	4,051	21,670	*146,205*	·84	·06	20·16	·60	·72	3·84	*26·59*	21·12	24·60	76,790	69,425	28·20	25·08	112

		10				11				12										13							
		MORTALITY ACCORDING TO—																									
		Class.								Age.																	
		Deaths among—				Ratio per 1,000 of population per annum.				Deaths.										Ratio per 1,000 of population per annum.							
Divisions.	Districts.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	1,836	405	...	...	...	19·4	18·36	...	...	520	195	151	73	130	277	228	218	190	259	198·12	17·76	10·80	6·48	12·72	12·96	12·24	17·04	22·20	39·00
	Bankura	...	1,390	66	...	120	...	18·2	17·04	...	16·92	399	151	117	81	75	145	137	120	108	24	174·12	23·76	13·92	8·64	9·60	11·16	10·44	14·28	16·32	51·84
	Birbhum	...	1,207	282	...	...	...	23·4	19·32	...	...	480	159	117	59	54	127	106	108	79	210	330·72	31·20	15·24	10·32	12·48	12·00	15·96	24·84	33·60	65·76
	Midnapore	1	4,313	330	...	370	16·20	23·4	24·12	...	37·68	965	674	364	211	234	476	487	486	401	751	185·16	29·40	15·60	10·80	12·24	12·12	15·48	24·24	32·28	61·92
	Hughli	...	1,094	286	...	...	...	24·6	24·60	...	...	257	154	89	56	61	132	138	153	129	191	181·80	31·20	14·16	10·80	12·24	12·00	15·96	24·84	33·60	65·76
Burdwan ...	Serampore	...	689	143	...	...	...	25·3	28·68	...	...	123	110	104	47	42	84	81	57	68	116	147·24	41·40	33·96	18·48	15·96	14·28	16·68	16·68	32·16	71·52
	Total (Hughli including Serampore).	...	1,783	409	...	...	...	25·9	25·80	...	...	380	264	193	103	103	216	219	210	197	307	169·96	34·68	22·56	13·32	13·56	12·96	15·84	21·60	32·28	65·28
	Howrah	1	965	265	...	...	5·76	23·0	24·00	...	...	287	180	84	29	44	99	106	109	72	221	184·92	31·80	12·84	5·64	9·12	9·72	13·44	21·48	22·92	68·28
	24-Pergunnahs	8	2,020	1,120	...	...	8·52	24·4	21·48	...	...	474	473	323	171	191	303	291	235	255	424	129·13	29·52	17·28	12·72	16·80	11·88	14·04	17·88	31·80	56·53
	Nuddea	10	1,622	2,140	...	...	15·60	23·6	27·24	...	...	668	485	432	249	204	304	3 8	322	251	539	20·88	25·56	20·40	17·28	20·16	13·12	15·72	23·24	25·08	61·80
Presidency ...	Jessore	...	2,045	3,458	...	...	...	31·9	35·40	...	...	655	1,019	787	335	307	458	402	435	329	716	152·64	53·28	31·32	20·40	24·84	16·80	22·32	27·12	31·44	72·60
	Murshidabad	...	1,116	1,554	...	...	...	26·7	31·56	...	...	581	394	287	199	164	276	223	255	164	422	250·32	33·36	19·08	19·56	19·92	16·20	15·60	24·60	25·56	64·16
	Khulna	5	1,536	1,895	...	...	80·28	23·16	40·92	...	...	493	575	427	233	187	314	256	228	208	475	196·92	54·00	33·60	25·56	23·28	23·20	20·64	27·00	40·32	91·20
	Dinajpur	1	1,417	1,497	...	...	26·16	23·6	22·56	...	...	444	475	246	174	141	326	373	319	169	284	152·16	32·76	11·28	15·92	14·40	15 12	19·68	26·76	54·12	54·72
	Rajshahye	1	684	2,884	...	...	99·12	28 3	34·88	...	...	476	585	422	257	234	376	365	318	222	341	179·76	43·08	24·52	23·04	17·04	16·64	17·16	22·80	21·00	37 68
Rajshahye ...	Rungpore	...	1,208	2,051	...	...	...	17·6	19·20	...	...	387	321	231	148	217	488	484	406	231	346	90·60	15·96	8·76	8 88	17·04	16·64	17·16	22·80	21·00	54·96
	Bogra	...	293	1,170	...	...	...	24·0	23·64	...	...	324	167	113	66	86	157	137	144	100	169	251·64	20·76	11·16	14·16	17·28	13·20	15·60	26·28	32·88	54·96
	Pubna	...	885	2,535	...	...	...	27·14	31·92	...	...	383	630	426	221	167	238	273	300	195	477	126·96	42 00	24·24	21·00	21·12	17·52	18·12	29·52	32·04	65·76
	Darjiling	4	419	10	14	...	57·00	39 48	14·52	8·88	...	49	71	39	27	31	77	71	38	22	22	187 80	52·32	25·08	21·00	28·08	26·40	33·12	33·24	36·34	57·80
	Julpaiguri	...	960	522	...	26	...	31·2	30·00	...	67·56	327	174	70	45	71	157	194	168	99	175	242·88	30·12	9·48	8·76	20·40	22·16	27·36	31·84	34·92	65·04
	Dacca	25	1,346	1,865	...	...	34·08	18·6	17·88	...	...	513	452	259	169	154	314	320	277	212	575	104·52	22·92	11·04	10·56	12·96	6·48	13·08	16·20	27·84	5·28
Dacca ...	Faridpore	3	1,608	1,508	...	...	13·08	18·48	19·48	...	...	319	411	223	154	131	197	214	211	228	411	94·44	22 92	11·04	10·56	12·48	11·64	16·20	19·56	36·48	82·32
	Backerganj	4	1,289	3,294	...	...	12·84	24·72	31·08	...	...	1,046	722	423	225	171	335	351	296	329	659	271·08	34·80	18·96	9·28	11·52	14·16	17·16	19·32	32·52	60·48
	Mymensing	...	1,732	3,154	...	69	...	21·00	17·64	...	31·80	595	549	388	213	307	605	597	426	423	862	95·64	15·72	9·24	9·28	13·32	15·72	19·68	26·52	38 28	90·13
	Chittagong	3	575	1,909	97	...	34·08	24·96	20·52	21·48	...	340	396	267	134	197	229	226	215	215	464	123·48	32·16	21·60	10·92	13·32	15 96	15·96	25·68	35·16	96·60
Chittagong ...	Noakhali	4	391	1,525	...	...	81·60	22·08	30·00	...	...	348	283	158	99	86	173	141	130	138	346	174·32	30·24	14·28	13·32	14·76	15 84	17·04	19·56	33·26	54·48
	Tipperah	...	949	1,648	...	...	...	22·32	19·68	...	...	386	398	142	150	233	287	256	217	239	358	130·80	17·64	7·20	10·92	21·96	13 84	17·04	19·56	33 26	54·48
	Patna	4	4,751	562	...	...	18·48	37·0	31·56	...	...	1,295	782	34	197	151	422	406	423	514	786	376·32	44·28	17·64	14·16	15·96	17 40	18·36	27·00	49 32	73·32
	Gya	...	7,635	943	...	...	...	48·36	48·48	...	...	1,646	1,318	731	427	324	776	668	734	777	1,177	461·76	56·88	30·12	24·24	27·84	26·28	23·16	33·88	65·40	111·48
	Shahabad	...	5,835	827	...	...	...	38·40	43·08	...	...	1,365	918	438	267	209	616	582	569	508	960	362·16	44·88	19 20	15·72	19·56	22·56	23·28	30·84	50·88	90·84
Patna ...	Mozufferpore	...	5,955	719	...	...	...	31·44	27·24	...	...	649	997	759	414	275	773	672	637	659	849	173·56	36·72	22·92	19·20	19·68	22·56	21·24	28·08	45·68	66·00
	Durbhanga	...	4,579	641	...	...	...	22 5	24·84	...	...	537	796	487	280	192	538	487	527	516	660	125·64	29·64	14·52	13·20	12 84	14·88	14·52	22·44	36·24	56·16
	Sarun	...	4,983	687	...	...	...	29·64	30·60	...	...	917	709	348	222	197	559	558	519	526	1,123	285·32	30·84	12 12	11·16	15·96	18·48	19·08	25·32	44·88	97·68
	Chumparun	7	3,517	453	...	...	43·32	28·56	22·32	...	9·96	459	536	345	191	149	413	393	439	405	647	124·56	31·56	16·92	12·96	15·60	17·04	17·28	29·28	46·68	81·12
	Monghyr	3	5,396	500	...	...	32·88	36·48	31 92	...	...	1,355	1,028	442	272	139	435	400	467	481	882	44·36	48·84	17·64	15·96	13·24	16·92	16·84	27·36	47·40	93·60
Bhagulpore ...	Bhagulpore	1	4,556	377	...	...	20·76	30·96	24·36	...	...	859	778	472	290	204	509	517	437	424	504	279 60	37·44	19·13	16·44	17·28	18 12	20·28	27·48	46·92	63·13
	Purneah	...	1,756	1,220	...	...	...	19·56	18·96	...	...	336	329	221	179	155	408	380	373	290	395	166·56	18·48	9·24	11·28	13·56	16·68	15·96	20·76	33 60	50·04
	Maldah	...	856	821	...	...	...	27·00	29·88	...	...	249	341	192	116	96	187	134	116	106	180	151·56	43·80	21·12	18·96	19·20	18·20	15·96	20·76	33·60	50·64
	Sonthal Pergunnahs	3	1,455	199	...	757	11·76	20·52	21·84	...	14·88	461	387	255	171	147	213	198	177	156	250	177·12	20·40	10·56	11·28	15·48	11·04	11·28	16·32	23·64	38·88
Orissa ...	Cuttack	7	2,430	57	...	...	35·76	16·68	14·28	...	...	606	264	124	84	124	202	224	196	208	462	193·56	15·92	5·40	5·16	14·80	7·92	11·16	14·64	21·60	49·20
	Puori	...	1,299	22	...	...	...	17·76	18 84	...	...	275	132	67	30	66	98	112	131	124	286	216·96	13·92	6·24	3·96	11 76	7·32	10·68	18·72	25·20	69·36
	Balasore	2	1,789	23	...	...	29·40	23·40	11·52	...	...	489	197	86	58	76	163	142	169	174	270	265·80	20·64	7·32	6·60	12·36	11·76	12·84	20·64	38 04	65·40
	Hazaribagh	...	2,670	346	...	26	...	34·56	39·12	...	4·20	73	550	277	165	91	219	219	223	221	345	252·84	41·76	16·44	15·60	15 96	12·96	15·84	23·16	36·84	47·64
Chota Nagpore.	Lohardugga	44	1,972	217	...	1,634	14·52	25·8	33·60	...	31·20	917	759	371	235	153	287	297	256	231	258	218·24	37·16	16·44	15·60	15 96	12·96	15·84	23·16	36·84	47·64
	Singbhum	7	681	2	...	...	28·08	18·24	10·20	...	...	113	104	74	43	27	51	78	81	56	64	183·72	20·16	11·88	9·96	8·40	8·16	14·52	24 84	29 88	39·36
	Manbhum	3	1,753	117	...	230	65·16	22·20	30·24	...	41·76	472	251	238	147	143	196	178	159	131	189	197·88	21 60	15·72	16·44	18·72	15·72	14·52	21·84	27·84	43·44
	TOTAL FOR THE PROVINCE.	151	96,836	45,869	111	3,238	18·60	27·12	25·80	16·68	23·28	25,503	21,190	12,911	7,634	6,750	14,117	13,563	12,766	11,476	20,303	197·64	31·08	15·60	13·56	16·08	15·24	17·04	24·00	35·28	65·76

Office of Sanitary Commissioner for Bengal,

W. H. Gregg, *Dip. Publ. Health, Camb.*,

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 8th November 1890

Births.

The births registered during the week ending with Saturday, the 8th November 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 28·9 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·3 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of births per 1000 of the population per annum	27·6	23·5	22·4	27·7	26·9	25·6	28·9

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	Towns.	Weeks ending— 18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.
Burdwan	33·6	13·7	33·6	32·0	Naraingang	24·8	70·4	66·2	115·9
Midnapore	7·7	7·7	20·1	17·0	Chittagong	9·4	..	11·7	14·1
Hughli and Chinsurah	49·2	27·9	42·7	27·9	Comillah	27·0	46·2	19·3	27·0
Serampore	23·6	43·2	53·0	39·3	Patna City	14·3	12·3	11·4	15·3
Utterpara	47·2	..	47·2	37·7	Gya	39·6	12·3	16·4	17·8
Howrah	24·6	25·2	31·5	33·8	Arrah	20·3	21·5	21·5	43·1
Bali	28·1	21·6	10·5	21·1	Mozufferpore	21·0	24·3	37·7	32·8
Krishnagar	18·9	16·1	22·7	18·9	Durbhanga	37·0	36·2	59·0	31·5
Ranaghat	18·0	18·0	12·0	12·0	Chupra	40·3	11·1	33·2	19·1
Santipore	8·8	..	19·3	15·8	Bhagulpore	16·3	..	46·2	50·7
Jessore	6·1	19·2	....	12·2	Monghyr	37·1	46·1	51·5	44·3
Rampore Beauleah	31·5	36·8	36·8	44·7	Purneah	6·9	13·9	3·4	27·7
Darjiling	51·9	14·8	..	14·8	Poori	16·8	16·8	21·0	27·3
Dacca	24·0	13·9	27·9	31·1	Total ...	25·0	19·4	29·1	28·9

It will be seen that last week the highest birth-rate was returned from Naraingang (115·9) and the lowest from Ranaghat (12·).

Deaths.

The deaths registered during the week under review correspond to an annual rate of 23·9 per 1,000 of the population. The rate of the week is 9·5 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885–89.	1890.
Ratio of deaths per 1,000 of the population per annum	40·0	37·8	25·7	29·7	33·7	33·4	23·9

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	Towns.	Weeks ending— 18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.
Burdwan	22·9	22·9	35·1	25·9	Naraingang	24·8	41·4	45·5	41·4
Midnapore	12·4	9·3	31·7	26·8	Chittagong	14·1	..	25·8	31·1
Hughli and Chinsurah	29·5	14·8	31·2	27·9	Comillah	11·6	23·1	11·6	23·1
Serampore	47·1	60·8	82·4	45·1	Patna City	15·9	15·9	18·3	16·2
Utterpara	37·7	...	56·6	37·7	Gya	60·1	34·8	27·3	44·4
Howrah	17·8	19·5	18·9	19·5	Arrah	12·0	8·4	10·8	21·7
Bali	24·6	28·1	14·0	24·6	Mozufferpore	38·9	14·6	14·6	20·7
Krishnagar	7·6	3·8	11·4	18·9	Durbhanga	20·5	29·9	26·0	14·2
Ranaghat	24·0	24·0	24·0	6·0	Chupra	20·1	23·1	17·1	12·1
Santipore	8·5	..	10·5	19·3	Bhagulpore	17·2	...	18·1	16·3
Jessore	...	30·6	49·0	24·5	Monghyr	21·7	25·4	37·1	40·7
Rampore Beauleah	42·0	49·9	39·4	47·3	Purneah	6·9	20·8	27·7	24·2
Darjiling	51·9	44·5	66·7	29·6	Poori	25·2	18·9	35·7	25·2
Dacca	18·2	25·2	20·8	21·4	Total ...	22·8	20·4	23·7	23·9

It will be seen that last week the highest mortality occurred in the town of Rampore Beauleah (47·3) and the lowest in Ranaghat (6·)

Measured by last week's mortality, the highest annual death-rates from cholera, fever, and other causes occurred in the following towns:—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Monghyr ...	... 8·1	Rampore Beauleah	... 42·0	Gya ...	... 21·2
Arrah ...	... 7·2	Serampore ...	... 23·5	Narainganj ...	... 20·7
Patna City ...	... 3·6	Bali ...	... 21·1	Serampore ...	... 15·7
Gya ...	... 2·7	Purneah ...	... 20·8	Poori ...	... 14·7
Dacca ...	... 2·6			Monghyr ...	... 12·7
				Midnapore ...	... 12·4
				Krishnagar ...	... 11·3

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1·9 from cholera, against 1·8 per 1,000 in the preceding week; ·04 from small-pox, against *nil;* 11·3 from fever, against 10·5; 2·7 from bowel-complaints, against 3·3; ·5 from injury, against ·2; and 7·4 from other causes, against 7·9 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	25·0	Christians ...	14·9	Under 1 year	... 188·5
Females	22·6	Hindus ...	22·5	1 and under 5 years	... 29·7
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	110	Mahomedans ...	27·7	5 „ 10 „	... 11·3
				10 „ 15 „	... 13·0
				15 „ 20 „	... 18·6
				20 „ 30 „	... 10·1
				30 „ 40 „	... 15·6
				40 „ 50 „	... 18·7
				50 „ 60 „	... 23·5
				60 years and upwards	... 77·5

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 29th November 1890. *Sanitary Commissioner for Bengal.*

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.															Sex.				
												DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.											
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
																											Males.	Females.	Males.	Females.	
Burdwan	Burdwan	16,063	16,017	34,080	10	11	21	15·2	16·8	32·0	91	...	...	9	4	...	4	17	...	...	13·7	6·1	...	6·1	25·9	35·1	6	11	17·3	35·7	48
Midnapore ...	Midnapore ...	16,927	16,633	33,560	6	5	11	9·3	7·7	17·0	120	...	...	4	4	...	8	16	...	...	6·2	6·2	...	12·4	24·8	21·7	8	8	24·6	25·0	98
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	10	7	17	16·4	11·5	27·9	143	...	...	12	3	...	2	17	...	...	19·7	4·9	...	3·3	27·9	31·2	11	6	36·1	19·7	183
Serampore ...	Serampore ...	13,559	12,937	26,496	10	10	20	19·6	19·6	39·3	100	1	...	13	2	...	8	23	2·0	...	23·5	3·9	...	15·7	45·1	32·4	13	10	49·9	40·2	124
	Utterpara	3,046	2,464	5,510	3	1	4	28·3	9·4	37·7	300	...	...	3	1	...	...	4	...	...	28·3	9·4	...	...	37·7	56·6	3	1	51·2	21·1	300
Howrah ...	Howrah	53,153	37,660	90,813	26	33	59	14·9	18·9	33·8	78	...	...	14	12	...	8	34	...	...	8·0	6·9	...	4·6	19·5	18·9	22	12	21·5	16·6	129
	Bali	7,836	6,979	14,815	6	...	6	21·1	...	21·1	No female birth.	...	...	6	...	...	1	7	...	...	21·1	...	...	3·5	24·6	14·0	4	3	26·5	22·4	118
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	6	4	10	11·3	7·6	18·9	150	...	...	3	...	1	6	10	...	...	5·7	...	1·9	11·3	18·9	11·4	5	5	19·6	18·3	107
	Ranaghat	4,628	4,655	8,683	1	1	2	6·0	6·0	12·0	100	...	...	1	...	...	...	1	...	...	6·0	...	...	...	6·0	24·0	1	...	12·9	...	No female death.
	Santipore	13,703	15,979	29,687	4	5	9	7·0	8·3	15·3	80	...	...	7	...	1	3	11	...	...	12·3	...	1·7	5·3	19·3	10·5	5	6	19·0	19·5	97
Jessore ...	Jessore	4,330	3,665	8,495	1	1	2	6·1	6·1	12·2	100	...	...	1	...	1	2	4	...	...	6·1	..	6·1	12·2	24·5	49·0	2	2	21·5	28·4	75
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	8	9	17	21·0	23·6	44·7	89	...	...	16	2	. .	...	18	...	...	42·0	5·3	...	...	47·3	39·4	13	5	62·8	25·8	218
Darjiling ...	Darjiling	4,579	2,439	7,018	1	1	2	7·4	7·4	14·8	100	..	...	2	...	...	2	4	...	...	14·8	...	...	14·8	29·6	66·7	1	3	11·4	64·0	18
Dacca ...	Dacca	42,782	37,379	80,161	27	21	45	17·5	13·6	31·1	128	4	1	12	5	...	11	33	2·6	·6	7·8	3·2	...	7·1	21·4	20·8	13	20	15·8	27·8	57
	Naraingunj ...	7,605	4,956	12,561	13	15	28	53·8	62·1	115·9	86	...	...	4	1	...	5	10	...	...	16·6	4·1	...	20·7	41·4	45·5	7	3	47·9	31·5	152
Chittagong ...	Chittagong ...	13,340	8,799	22,139	2	4	6	4·7	9·4	14·1	50	...	...	6	1	...	2	9	...	...	14·1	2·3	...	4·7	21·1	25·8	4	5	15·6	29·6	53
Tipperah ...	Comillah	8,153	5,353	13,506	5	2	7	19·3	7·7	27·0	250	...	...	1	...	3	2	6	...	...	3·8	...	11·6	7·7	23·1	11·6	4	2	25·5	19·4	131
Patna	Patna City ...	78,762	81,475	160,237	22	25	47	7·1	8·1	15·3	88	11	...	24	3	2	10	50	3·6	...	7·8	1·0	·6	3·2	16·2	13·3	27	23	17·8	14·7	121
Gya	Gya	38,290	37,831	76,121	13	13	26	8·9	8·9	17·8	100	4	...	24	5	1	31	65	2·7	...	16·4	3·4	·7	21·2	44·4	27·3	41	24	55·7	33·0	169
Shahabad ...	Arrah	20,960	22,505	43,465	22	14	36	26·3	16·7	43·1	157	6	...	11	1	...	1	19	7·2	...	13·1	1·2	...	1·2	22·7	10·8	7	12	17·4	27·7	62
Mozufferpore	Mozufferpore ...	23,084	19,658	42,742	15	12	27	13·2	14·6	32·8	125	...	...	11	3	...	3	17	...	...	13·4	3·6	...	3·6	20·7	14·6	8	9	18·0	23·8	75
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	23	17	40	18·1	13·4	31·5	135	...	...	9	2	...	7	18	...	...	7·1	1·6	...	5·5	14·2	26·0	9	9	13·9	14·5	96
Saran	Chupra	25,116	26,554	51,670	6	13	19	6·0	13·1	19·1	46	...	...	7	...	...	5	12	...	...	7·0	...	...	5·0	12·1	17·1	6	6	12·4	11·7	106
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	31	25	56	23·1	22·6	50·7	124	3	...	7	...	...	8	18	2·7	...	6·3	...	...	7·2	16·3	18·1	8	10	14·0	15·7	75
Monghyr ..	Monghyr	28,154	29,366	57,520	22	27	49	19·9	24·4	44·3	81	9	...	14	7	1	14	45	8·1	...	12·7	6·3	·9	12·7	40·7	37·1	29	16	53·6	28·3	189
Purneah ...	Purneah	8,463	6,553	15,016	5	3	8	17·3	10·4	27·7	166	...	...	6	...	...	1	7	...	...	20·8	...	...	3·4	24·2	27·7	3	4	18·4	31·7	58
Pooree ...	Poori ...	13,247	11,537	24,784	6	7	13	12·6	14·7	27·3	85	...	...	5	...	...	7	12	...	...	10·5	...	...	14·7	25·2	35·7	5	7	19·6	31·6	62
	Total	450,986	510,588	1,061,574	304	286	590	14·9	14·0	28·9	106	38	1	231	56	10	151	487	1·9	·04	11·3	2·7	·5	7·4	23·9	23·7	265	222	25·0	22·6	110

		13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
DISTRICTS.	NAMES OF MUNICIPALITIES.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards
Bárdwan ...	Burdwan	...	13	4	...	...	...	28·5	20·3	...	...	2	1	1	...	...	1	..	5	5	2	157·6	23·0	22·3	...	...	6·6	...	58·9	105·9	70·2
Midnapore ...	Midnapore ...	...	13	3	...	...	...	26·1	21·6	...	...	4	1	2	...	...	2	2	1	2	2	279·9	22·1	27·7	...	...	14·2	18·8	14·0	50·4	56·8
Hughli ...	Hughli and Chinsurah	...	15	2	...	...	...	30·9	16·9	...	...	4	3	...	1	1	1	2	1	...	4	239·0	70·3	...	21·0	20·7	8·4	18·2	12·5	...	100·3
Serampore ...	Serampore ...	...	20	3	...	...	...	41·2	166·3	...	...	6	7	1	2	...	1	2	...	1	3	439·4	201·7	20·7	46·8	...	9·7	20·9	...	27·2	112·1
	Utterpara	...	4	...	...	...	...	39·1	...	...	...	...	...	1	...	...	1	...	...	1	1	...	...	111·6	...	...	45·2	...	...	141·3	200·0
Howrah ...	Howrah	...	21	13	...	...	...	16·0	33·0	...	...	8	4	3	...	3	3	7	3	1	2	201·6	37·5	24·3	...	21·3	6·9	18·9	13·3	9·5	27·7
	Bali	...	5	2	...	...	...	19·4	79·3	...	...	1	1	1	...	...	1	...	...	...	3	143·6	52·1	48·8	...	...	15·5	...	...	...	213·1
Nudden ...	Krishnagar	...	4	6	...	...	...	11·2	37·7	...	...	4	...	1	1	1	...	...	1	...	2	419·4	...	15·1	18·5	25·3	...	...	15·9	...	60·2
	Ranaghat	...	1	...	...	...	...	7·1	...	...	..	1	...	...	...	...	...	...	...	...	...	251·2	...	...	...	...	...	...	...	...	...
	Santipore	...	9	2	...	...	...	22·6	11·6	...	...	3	2	1	...	...	1	...	...	1	3	194·6	35·9	13·8	...	...	10·6	...	...	22·6	79·4
Jessore ...	Jessore	...	...	4	...	...	...	...	54·4	...	...	1	...	1	...	...	1	...	1	...	...	266·0	...	65·6	...	...	25·8	...	49·5	...	...
Rajshahye ...	Rampore Beauleah	1	6	11	...	...	912·3	31·5	58·3	...	...	1	2	3	1	1	...	...	2	1	7	128·1	73·3	75·0	23·9	31·3	...	...	42·4	41·9	378·0
Darjiling ...	Darjiling	...	4	...	...	...	...	45·3	...	...	...	...	1	1	1	1	...	...	...	...	...	...	80·9	88·9	106·6	81·3	...	...	...	...	...
Dacca ...	Dacca	...	21	12	...	...	...	27·1	15·9	...	...	6	5	1	...	6	3	1	3	5	3	164·4	35·3	5·2	...	42·7	10·2	4·5	18·6	54·9	28·0
	Naraingunj	...	2	8	...	...	...	16·4	67·5	...	...	2	1	...	1	1	3	...	...	...	2	372·8	45·6	...	45·8	49·8	58·4	...	...	...	159·5
Chittagong ...	Chittagong	...	1	8	...	...	...	9·0	27·2	...	...	1	...	...	1	1	...	3	1	...	2	93·4	...	...	20·2	21·5	...	46·8	23·0	...	130·7
Tipperah ...	Comillah	...	3	3	...	...	...	26·2	21·1	...	...	2	2	1	...	...	...	1	...	...	...	350·2	79·5	31·9	...	...	...	26·1	...	...	...
Patna	Patna City	...	42	8	...	...	...	18·4	16·2	...	...	8	3	3	3	...	4	5	3	6	15	96·5	10·7	9·3	10·8	...	7·2	11·2	8·3	22·1	56·5
Gya ...	Gya	...	43	22	...	...	...	37·3	71·2	...	...	17	10	...	2	1	2	8	8	7	10	493·9	81·8	...	15·5	9·9	7·1	32·7	42·6	55·4	101·3
Shahabad ...	Arrah	...	14	5	...	...	...	23·5	21·0	...	...	1	1	...	3	2	2	2	...	1	7	40·4	11·7	...	35·3	32·4	13·2	16·2	...	16·8	126·2
Monufferpore ...	Monufferpore	...	8	9	...	...	...	13·9	37·5	...	...	1	1	1	...	4	3	3	3	...	1	54·5	12·9	11·6	...	68·6	16·2	22·4	31·2	...	21·4
Durbhanga ...	Durbhanga	...	19	8	...	...	...	10·7	23·7	...	...	4	...	1	1	1	4	3	2	...	2	133·6	...	6·6	9·4	12·9	15·6	14·0	14·0	..	32·6
Saran	Chupra	...	11	1	...	...	...	14·4	4·4	...	...	2	1	...	1	1	1	1	2	...	3	73·7	10·1	...	10·4	15·0	5·6	6·7	17·1	...	45·9
Bhagulpore ...	Bhagulpore	...	9	9	...	...	...	11·8	27·2	...	...	5	1	...	1	3	1	1	...	1	5	217·8	9·6	...	8·3	37·3	4·8	8·6	...	12·2	73·2
Monghyr ...	Monghyr	1	34	10	...	...	218·5	39·5	41·4	...	...	6	6	...	5	2	5	4	4	1	12	210·1	50·1	...	45·4	27·5	25·1	23·3	32·6	13·1	174·0
Purneah ...	Purneah	...	3	4	...	...	...	17·0	36·7	...	...	1	...	1	...	...	1	...	1	2	1	183·7	...	32·9	...	...	15·8	...	28·0	111·9	64·4
Poori ...	Poori	...	12	...	...	...	...	25·4	...	...	...	1	...	...	...	...	...	1	4	...	6	171·6	...	...	...	...	...	12·8	62·6	...	172·8
	TOTAL ...	2	328	157	...	...	14·9	22·5	27·7	...	...	92	53	24	24	29	41	46	45	35	98	188·5	29·7	11·3	13·0	18·6	10·1	13·6	18·7	23·5	77·5

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 15th November 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 15th November 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 24·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·2 below the average rate of the corresponding week of the past five years, and is also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	27·6	26·2	28·2	24·5	30·6	27·4	24·2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	Towns.	Weeks ending— 25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.
Burdwan	13·7	33·6	32·0	21·4	Naraingunj	70·4	66·2	115·9	74·5
Midnapore	7·7	20·1	17·0	15·5	Chittagong	...	11·7	14·1	16·4
Hughli and Chinsurah	27·9	42·7	27·9	32·8	Comillah	46·2	19·3	27·0	23·1
Serampore	43 2	53·0	30·3	55·0	Patna City	12 3	11·4	15·3	10·7
Utterpara	...	47·2	37·7	37·7	Gya	12 3	16·4	17·8	21·9
Howrah	25·2	31·5	33·8	28·1	Arrah	21·5	21·5	43·1	13·8
Bali	24·6	10·5	21·1	21·1	Mozufferpore	24·3	37·7	32·8	32·8
Krishnagar	15·1	22·7	18·9	13·2	Durbhanga	36·2	59·0	31 5	36·2
Ranaghat	18·0	12·0	12·0	24·0	Chupra	11·1	33 2	19·1	14·1
Santipore	...	19 3	15·8	19·3	Bhagulpore	...	46·2	50·7	37·1
Jessore	12·2	...	12·2	30·6	Monghyr	46·1	51 5	44·3	30·7
Rampore Beauleah	36·8	36·8	44·7	44 7	Purneah	13·9	3·4	27·7	6·9
Darjiling	14 8	...	14·8	44·5	Poori	16·8	21·0	.7·3	14·7
Dacca	13 0	27·9	31·1	24·0	Total ...	19·4	29·1	28·9	24·2

It will be seen that last week the highest birth-rate was returned from Naraingunj (74·5) and the lowest from Purneah (6·9).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23·4 per 1,000 of the population. The rate of the week is 9·9 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	39·6	38·4	29·7	26·3	32·3	33·3	23·4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	Towns.	Weeks ending— 25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.
Burdwan	22·9	35·1	25·9	22·9	Naraingunj	41·4	45·5	41·4	58 6
Midnapore	9·3	21·7	24·8	29·4	Chittagong	...	25·8	21·1	14·1
Hughli and Chinsurah	14·8	31·2	27·9	32·8	Comillah	23·1	11·6	23·1	13·3
Serampore	60·3	82·4	45·1	72·6	Patna City	15·9	13·3	10·2	14 8
Utterpara	...	56·6	37·7	66·1	Gya	34·8	27·3	45·4	44·4
Howrah	19·5	18·9	19·5	28·9	Arrah	8·4	10·8	22·7	12·0
Bali	28·1	14·0	24·6	21·1	Mozufferpore	14·6	14·6	20·7	17·0
Krishnagar	3·3	11·4	18·9	5·7	Durbhanga	29·0	26·0	14·2	18·9
Ranaghat	24·0	24·0	6·0	12·0	Chupra	23·1	17·1	12·1	8·0
Santipore	...	10·5	19·3	7·0	Bhagulpore	...	18·1	16·3	17·3
Jessore	30·6	42·0	24·5	44·0	Monghyr	24·4	37·1	40·7	27·1
Rampore Beauleah	49·9	39·4	47·3	13·1	Purneah	20·8	27·7	24·2	13·9
Darjiling	44·5	66·7	29·6	7·4	Poori	18·9	35·7	23·2	35·9
Dacca	25·9	20·8	21·4	16·6	Total ...	20·4	23·7	23·9	23·4

It will be seen that last week the highest mortality occurred in the town of Serampore (72·6) and the lowest in Krishnagar (5·7).

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes occurred in the following towns :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Monghyr ...	6·3	Serampore ...	31·4	Narainganj ...	20·7	Serampore ...	21·6
Gya ...	4·1	Poori ...	31·4	Serampore ...	17·6	Narainganj ...	20·7
Patna City ...	3·6	Jessore ...	30·6			Poori ...	18 9
		Hughli ...	29·5			Gya ...	14·3
		Gya ...	22·5			Midnapore ...	13·9
						Hughli ...	13 1

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1·8 from cholera, against 1·9 per 1,000 in the preceding week; ·2 from small-pox against ·04; 10·5 from fever, against 11·3; 3·7 from bowel-complaints, against 2·7; ·3 from injury, against ·5; and 6·9 from other causes, against 7·4 in the preceding week. The mortality from small-pox is noticeably severe in Chittagong, there being three deaths (7· per 1,000 of population per annum).

The mortality of last week according to *Sex*, *Class* and *Age* was as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	25·7	Christians ...	14·9	Under 1 year	168 0
Females	20·9	Hindus ...	23·8	1 and under 5 years ...	25·2
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population...	123	Mahomedans ...	22·6	5 „ 10 „ ...	14·1
				10 „ 15 „ ...	10·8
				15 „ 20 „ ...	12·2
				20 „ 30 „ ...	17·0
				30 „ 40 „ ...	15·4
				40 „ 50 „ ...	20 8
				50 „ 60 „ ...	28·2
				60 years and upwards ...	53·8

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Pub. Health, Camb.*,

The 29th November 1890. *Sanitary Commissioner for Bengal.*

DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.						MORTALITY ACCORDING TO—																	
											Disease.														Sex.			
					Number of—			Ratio per 1,000 of population per annum.			Deaths from—							Ratio per 1,000 of population per annum.							Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of population per annum.		Ratio of male deaths to every 100 female death, calculated in the proportion such mortality bears to the total male and female population.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	7	7	14	10·7	10·7	21·4	100	...	...	9	2	1	3	15	...	...	13·7	3·1	1·5	4·6	22·9	25·9	9	6	25·9	19·5	132
Midnapore ...	Midnapore ...	16,927	16,633	33,560	6	4	10	9·3	6·2	15·5	150	...	1	3	6	...	9	19	...	1·5	4·6	9·3	...	13·9	29·4	24·8	7	12	21·5	37·5	57
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	14	6	20	23·0	9·8	32·8	233	...	...	18	6	..	8	32	...	...	29·5	9·8	...	13·1	52 5	27 9	19	13	62·3	42·7	146
Serampore ...	Serampore... ...	13,559	12,937	26,496	10	18	28	19·6	35·3	55 0	55	1	...	16	9	...	11	37	2·0	...	31·4	17·6	...	21·6	72·6	45·1	25	12	95·9	48·2	199
	Utterpara	3,046	2,464	5,510	3	1	4	28·3	9·4	37·7	300	...	...	1	3	...	3	7	...	...	9·4	28·3	...	28·3	66·1	37 7	5	2	85 4	42·2	202
Howrah ...	Howrah	53,153	37,660	90,813	27	22	49	15·5	12·6	28·1	123	2	...	19	7	...	12	40	1·1	...	10·9	4·0	...	6 9	22·9	19·5	19	21	18·6	29 0	64
	Bali	7,836	6,979	14,815	3	3	6	10·5	10·5	21·1	100	...	...	4	...	...	2	6	...	...	14·0	...	...	7·0	21·1	24·6	4	2	26·5	14·9	178
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	7	...	7	13·2	...	13·2	No female birth.	...	...	2	...	...	1	3	...	...	3·8	...	...	1·9	5·7	13·9	3	1	7·8	3·7	210
	Ranaghat	4,028	4,655	8,683	1	3	4	6·0	15·0	24·0	33	...	...	2	...	...	...	2	...	...	12·0	...	...	...	12·0	6·0	...	2	...	22·3	No male death.
	Santipore	13,706	15,979	29,687	6	5	11	10·5	8·8	19·3	120	...	...	4	...	...	...	4	...	...	7·0	...	...	..	7 0	19·3	3	1	11·4	3·3	345
Jessore ...	Jessore	4,830	3,665	8,495	2	3	5	12·2	18·4	30·6	66	...	...	5	1	1	1	8	..	...	30·6	6·1	6·1	6·1	49·0	24·5	3	5	32 3	70·9	45
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	6	11	17	15·8	28·9	44·7	54	...	..	4	1	...	...	5	...	..	10·5	2·6	..	...	13·1	47·3	5	...	24·2	...	No female death.
Darjiling ...	Darjiling ...	4,579	2,43	7,013	2	4	6	14·8	29·6	44·5	50	...	...	1	...	...	...	1	...	...	7·4	...	...	...	7·4	29·6	1	...	11·4	...	Ditto.
Dacca	Dacca	42,782	37,379	80,161	23	14	37	14·9	9·1	24·0	164	...	...	9	4	1	10	24	...	...	5·8	2·6	·6	6·5	15·6	21·4	11	13	13·4	18·1	74
	Narsingandi ...	7,605	4,956	12,561	11	7	18	45·5	29·0	74·5	157	1	..		5	...	5	14	4·1	...	12·4	2·7	...	20·7	58·0	41·4	11	3	75·2	31·5	366
Chittagong ...	Chittagong ...	13,340	8,790	22,130	3	4	7	7·0	9·4	16·4	75	...	3	1	1	...	1	6	...	7·0	2·3	2·3	...	2·3	14·1	21·1	1	5	3·9	29·6	13
Tipperah ...	Comillah	8,153	5,353	13,506	2	4	6	7·7	15·4	23·1	50	...	...	5	...	...	...	5	...	...	19·3	...	...	...	19·3	23·1	2	3	12·8	29·1	44
Patna	Patna City ...	78,762	81,475	160,237	16	17	33	5·2	5·5	10·7	94	11	...	13	4	...	16	44	3·6	...	4·2	1·3	...	5·2	14·3	16·2	29	15	19·1	9·6	199
Gya	Gya	38,299	37,831	76,131	15	17	32	10·2	11·6	21·9	88	6	...	33	4	1	21	65	4·1	...	22·5	2·7	·7	14·3	44·4	41·4	41	24	55·7	33·0	169
Shahabad ...	Arrah	20,960	22,505	43,465	5	4	9	6·0	4·8	10·8	125	3	...	2	4	...	1	10	3 6	...	2·4	4·8	...	1·2	12·0	22·7	7	3	17·4	6·9	252
Monnfferpore...	Monnfferpore ...	23,064	19,658	42,742	14	13	27	17 0	15·8	32·8	107	...	...	11	2	...	1	14	...	...	13 4	2·4	...	1·2	17·0	20·7	9	5	20·3	13 2	153
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	18	28	46	14·2	22·0	36·2	64	1	...	12	2	...	9	24	·8	...	9·4	1·6	...	7·1	18·9	14 2	12	12	18·5	19·3	95
Saran	Chupra	25,116	26,154	51,670	10	4	14	10·1	4·0	14·1	250	2	1	2	...	...	3	8	2·0	1·0	2·0	...	...	3·0	8 0	12·1	2	6	4·1	11·7	35
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	28	13	41	25·3	11 8	37·1	215	1	...	8	4	1	5	19	·9	...	7·2	3·6	·9	4·5	17 2	16·3	11	8	19·3	15·0	128
Monghyr ...	Monghyr	28,154	29,366	57,520	17	17	34	15·3	15·3	30·7	100	7	...	8	6	...	9	30	6·3	...	7·2	5·4	...	8·1	27·1	40·7	17	13	31·4	23·0	136
Purneah ...	Purneah	8,463	6,553	15,016	2	...	2	6·9	...	6·9	No female birth.	...	...	4	...	...	...	4	...	...	13·9	...	...	...	13·9	24·2	4	...	24·6	...	No female death.
Poori	Pooria	13,247	11,537	24,784	2	5	7	4·2	10·5	14·7	40	2	...	15	4	1	9	31	4·2	...	31·4	8·4	2·1	18·9	65·0	55·2	13	18	51·0	81·1	62 •
	TOTAL ...	558,986	510,588	1,061,574	260	234	494	12·7	11·5	24·2	111	37	5	214	75	6	140	477	1·8	·2	10·5	3·7	·3	6·9	23·4	23·9	272	205	25·7	20 9	123

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	11	4	...	...	.....	24·2	20·3	...	...	5	3	2	1	...	1	1	1	1	...	333·9	69·1	44·6	20·7	.....	6·6	7·5	11·8	21·2	.....
Midnapore ...	Midnapore ...	...	16	3	...	...	... ..	33·1	21·6	...	...	4	2	1	2	1	2	2	3	1	1	279·9	44·2	13·9	34·2	16·5	14·2	19·8	41·9	25·2	28·4
Hughli ...	Hughli and Chinsurah.	...	28	4	...	...	.....	57·6	33·7	...	...	8	1	2	...	1	5	4	2	4	5	518 1	23·4	36·0	.....	20·7	41·9	36·4	24·9	80·0	125·4
Serampore ...	Serampore ...	...	32	5	...	...	.....	65·9	277·2	...	...	9	3	3	1	...	3	5	4	3	6	659·2	86·4	62·1	23·4	.....	29·0	52·3	61·6	81·5	224·3
	Utterpara	...	6	1	...	...	.....	58·6	282·6	...	...	2	...	...	...	...	1	3	1	..	...	646·0	.....	.....	.....	.....	45·2	147·0	74·2	.....	.....
Howrah ...	Howrah	1	29	10	...	...	27·5	22·1	25 3	...	...	8	5	2	2	2	6	8	3	...	4	201·6	46·9	16·5	15·8	14·2	13·8	21 6	13·3	.....	55·5
	Bali	...	5	1	...	...	.....	19·4	39·7	...	...	1	1	...	...	...	...	...	...	2	2	143·6	52·1	.....	.....	.....	.....	.....	.....	99·2	142·1
Nuddea ...	Krishnagar ...	...	2	1	...	...	.....	5·6	6·3	...	...	...	...	..	...	1	...	...	...	...	2	... ..	.....	.....	... ..	25·3	.....	... ..	.....	.....	60·2
	Ranaghat	...	...	2	...	...	.....	...	76·2	...	...	...	1	1	...	...	...	...	...	..	...	.....	65·4	46·6	.....	.....	.....	.....	.....	.....	.....
	Santipore	...	3	1	...	...	.. ...	7·5	5·8	...	...	...	...	...	1	...	...	...	...	...	3	... ..	.....	... ..	17·9	.....	.....	.....	... ..	.....	79·4
Jessore ...	Jessore	1	2	5	...	...	321·0	23·1	68·0	...	...	...	...	...	...	...	1	1	4	1	1	.....	.....	.....	.....	.....	25·8	34·0	198·1	92·4	113·5
Rajshahye ...	Rampore Beauleah	...	5	...	..	...	... .	26·2	.....	...	...	...	...	...	...	...	4	1	...	...	..	.....	.....	... ..	.....	.....	50·0	14·4	.....	.....	.....
Darjiling ...	Darjiling ...	...	1	...	...	...	.....	11·3	.....	...	...	...	...	...	...	...	...	...	...	1	...	.....	.....	.....	.....	.....	.....	.....	... ..	213·1	.....
Dacca ...	Dacca	...	11	13	...	...	.....	14·2	17·2	...	...	3	2	2	...	1	2	3	2	7	2	82·2	14·1	10·5	.....	7·1	6·8	13·4	12·4	76·9	18·7
	Narsinganj ...	...	11	3	...	...	.....	90·4	25·3	...	...	4	...	2	...	1	4	1	1	...	1	745·5	.....	78·7	.....	49·7	77·9	24·3	37·3	.....	79·8
Chittagong ..	Chittagong ...	...	...	6	...	...	.....	...	20·4	..	...	...	2	...	1	...	2	...	...	1	...	.....	52·9	.....	20·2	.....	23·5	.....	.....	47·9	.....
Tipperah ...	Comillah	...	...	5	...	...	.....	...	35·2	..	...	...	1	1	...	...	...	1	...	...	2	.....	39 8	31·9	.....	.....	.....	26·1	.....	.....	153·4
Patna	Patna City ...	...	32	12	...	...	.....	14·0	15·3	...	...	6	5	1	1	..	4	7	6	4	10	72·4	17·8	3·1	3·6	.....	7·2	15·7	16·6	14·7	37·7
Gya	Gya	...	43	22	...	...	.. ...	37·3	71·2	...	...	6	2	3	5	4	16	5	11	10	3	174·3	16·4	22·3	38·6	39·7	56·5	30·4	58·5	79·1	80·8
Shahabad ...	Arrah	...	9	1	...	...	.....	15·1	4·2	...	...	1	1	3	1	...	...	...	...	1	3	40·4	11·7	30·4	11·8	.....	.....	.....	.....	16·8	54·1
Mozufferpore ...	Mozufferpore ...	...	12	2	...	...	.....	20·8	8·3	...	...	...	3	2	1	1	3	...	...	1	3	.....	38·6	23·1	13·1	17·2	18·2	.....	.....	16·9	64·1
Durbhanga ...	Durbhanga ...	...	19	5	...	...	.....	20·4	14·8	...	...	5	5	4	1	...	4	1	2	...	2	167·0	34 2	26·6	9·4	.....	15·6	4·7	14·0	.....	32·6
Saran	Chupra	...	6	2	...	...	.....	11·8	8·7	...	...	5	1	...	...	...	1	...	...	...	1	184·3	10·1	.....	.....	.....	5·6	.....	.....	.....	15·3
Bhagulpore ...	Bhagulpore ...	...	10	9	...	...	.....	13·1	27·2	...	...	3	1	...	3	3	3	2	1	1	2	130·7	9·6	.....	24·8	37·3	14·3	11·2	8·3	12·2	28·9
Monghyr ...	Monghyr	...	22	8	...	...	.....	25·6	33·1	...	...	10	2	1	...	1	5	2	1	...	8	350 2	16·7	7 4	.....	13·8	25·1	11·7	8·2	.....	116·1
Purneah ...	Purneah	...	1	3	...	...	.....	5·7	27·6	...	...	..	1	...	...	1	...	...	2	...	...	... ..	43·0	.....	.....	52·3	.....	... ..	56·1	... ..	.....
Poori	Poori	...	31	...	...	...	.....	65·7	.....	...	...	2	3	...	...	2	2	5	6	4	7	343·2	86·8	.....	... ..	55·9	19·7	64·2	93·9	93·2	201·6
	TOTAL ...	2	347	128	...	...	14·9	23·8	22·6	...	..	82	45	30	20	19	69	52	50	42	68	168·0	25·2	14·1	10·8	12·2	17·0	15·4	20·8	38·2	53·8

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of August 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual leases.					GRAND TOTAL.	During month.	Up to end of month.	During month.	Up to end of month.	
										Kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot-weather.	Total.						
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.	
ORISSA ...	Cuttack ...	Taldunda, 1st reach ...	1,342	557	144	10,661	9,270	.....	10,217	.....	423	13	.....	.....	436	10,653	7·30	36·18	18·29	46·27	
		Ditto, 2nd ,, ...	566	242																
		Machgong	766	266	266	29,235	27,171	.....	29,094	.....	128	14	.....	... ..	142	29,236	7·50	40·79	13·55	44·05	
		Kendrapara	1,067	802·84	693·86	49,547	48,917	.....	51,578	... ..	3,318	35	.....	.....	3,353	54,931	8·35	36·05	11·42	48·78	
		Gobri	372·82	55·62	54·05	2,804	1,844	... ..	2,291	... .	209	1	.....	.. ...	209	2,500	4·09	22·34	15·37	46·13	
		Do. extension	648	68·09	62·22	3,120	1,785	.....	2,147	... ..	4	.....	.....	.....	4	2,151	9·12	27·89	15·21	46·33	
		Patamoondi	885	416·58	348·32	10,061	7,259	. ....	10,297	.. ..	60	.....	.....	.....	60	10,357	No gauge fixed.				
		High Level, Range I ...	608	393·19	320·14	19,890	17,379	.....	25,099	.. .	91	5	.....	.....	96	25,195	4·30	28·45	23·30	44·25	
		Ditto, ditto II ...	727·16	46	31	2,445	2,280	.....	2,456	.....	29	...	... .	... ..	29	2,485	.....	.....	.....	.....	
	Balasore ...	Ditto, ditto III ...	727·16	526	526	37,694	35,342	.....	39,117	... ..	... ..	141	.....	.....	141	39,258	6·89	27·00	.....	30·76	
		Total ...	.....	.....	.....	165,457	149,247	. ...	172,296	.....	4,261	209	.....	.....	4,470	176,766	.....	.....	.....	....	
		Total of the corresponding period of last year ...	.....	.....	.....	.....	... ..	.....	151,084	. ....	5,895	155	.. ...	... ..	6,050	157,138	. ...	.....	.....	... ..	
SOUTH-WESTERN.	Midnapore	Midnapore	1,411	695	667	69,466	58,875	.....	69,086	. ..	....	.....	.....	...	....	69,086	5·41	35·44	13·14	34·27	30 Days discharging.
	Howrah ...	Panchkoorah	522	79	.. 69	4,139	2,585	.....	4,584	43	.....	... ..	.....	.....	43	4,627	4·11	30·90	14·61	37·37	24 Days discharging.
		Tidal reaches, Ranges I-II	.....	.....	.....	363	357	.....	386	... ..	.. ...	.....	.. ...	.....	...	386	... ..	.....	.....	.. .	
		Total ...	.....	.....	.. ...	73,968	61,817	.	74,056	43	.. ..	.....	.....	...	43	74,099	... .	.....	.....	.....	
		Total of the corresponding period of last year ...	.....	.....	.....	.....	. ....	.....	62,941	.. ...	... ..	.....	... ..	. ...	.....	62,941	.....	.....	.... .	... ...	
SONE ...	Shahabad ...	Western Main	4,342	627	52	10,055	12,511	11,560	.....	1,457	.....	234	.....	309	2,000	13,560	16·05	39·12	11·77	35·20	
		Buxar	1,226	484	147	42,487	47,417	51,545	.....	1,955	.....	1,109	69	2,566	5,699	57,244					
		Arrah	2,000	922	585	101,990	108,542	90,883	... ..	2,643	.. ...	2,216	111	5,669	17,639	108,522	13·06	51·47	12·88	33·95	
	Patna and Gya.	Eastern Main	1,466	823	460	1,369	787	1,484	.. ..	27	.....	8	1	.....	36	1,520	16·75	51·19	12·43	35·46	
		Patna				41,792	42,276	39,255	.....	11,346	.....	410	168	.....	11,924	51,179					
		Total ...	.....	.....	.....	197,693	211,533	194,727	... ..	24,428	.....	3,977	349	8,544	37,298	232,025	.....	.....	.....	.....	
		Total of the corresponding period of last year ...	.....	.....	.....	.....	.....	167,050	... ..	60,705	.....	4,590	805	11,891	77,991	245,041	.....	.....	.....	.....	
		Grand Total ...	... ..	.....	.. ...	437,059	422,597	194,727	246,352	24,471	4,261	4,186	349	8,544	41,811	432,890	.....	.....	.. ...	.....	
		Grand Total of the corresponding period of last year	.....	.....	.. ...	.....	... ..	167,050	214,029	60,705	5,895	4,745	805	11,891	84,041	465,120	.....	.....	.....	.....	

CALCUTTA,
The 1st December 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of August 1890.

Date.		River Ganges.																River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
		Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beauleah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
	Miles.	96		184	48	90		177	87	287	110	391	94	471	90	591	120						
	Distance.	From Allahabad ...		From Allahabad ...	From Mirzapur ...	From Benares		From Benares	From Buxar ...	From Benares	From Dinapur	From Benares	From Monghyr	From Benares	From Sahebgunge ...	From Benares	From Rampore Beauleah ...						
		Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
1st		26·75	232·97	26·50	223·30	25·25	194·30	29·50	163·73	25·42	127·27	25·00	93·00	23·83	65·83	21·75	30·69	28·50	62·24	26·71	31·01	27·00	175·76
2nd		26·75	232·97	26·33	223·13	25·17	194·22	29·30	164·13	25·50	127·35	26·00	94·00	24·08	66·08	21·92	30·86	28·75	63·49	27·00	31·30	27·20	175·96
3rd		27·30	233·72	26·66	223·46	25·58	194·63	30·30	164·53	25·67	127·52	25·17	93·17	24·38	66·38	21·92	30·86	29·42	63·16	27·17	31·47	27·00	175·76
4th		29·50	235·72	29·00	224·80	26·67	195·72	30·80	165·03	25·92	127·77	25·25	93·25	24·67	66·67	22·00	30·94	29·83	63·57	27·50	31·80	27 00	175·78
5th		30·83	237·05	29·50	226·30	27·00	196·05	31·20	165·43	26·42	128·27	25·42	93·42	24·93	66·92	22·08	31·03	30·08	63·82	27·67	31·97	27·20	175·96
6th		31·92	238·14	30·83	227·63	27·75	196·80	31·50	165·73	26·75	128·60	25·42	93·42	25·08	67·08	22·25	31·19	30·38	64·12	27·79	32·09	26·90	175·66
7th		33·50	239·72	32·75	229·55	28·83	197·88	31·80	166·03	26·92	128·77	25·58	93·58	25·25	67 25	22·33	31·27	30·38	64·12	28·00	32 30	26·50	175·26
8th		36·25	242·47	34·00	230·80	29·00	198·05	32·30	166·53	27·17	129·02	25·67	93·67	25·33	67·33	22·33	31·27	30·46	64·20	28·21	33·51	25·70	174·46
9th		36·50	242·72	35·00	231·80	29·58	198·63	32 60	166·83	27·25	129·10	25·75	93·75	25·46	67·46	22·33	31·27	30·54	64·28	28·46	32·76	25·30	174·06
10th		36·25	242·47	35·00	231·80	29·75	198·80	32·50	166·73	27·42	129·27	25·75	93·75	25·54	67·54	22·17	31·11	30·67	64·41	28·58	32·88	24·90	173·66
11th		36·25	242·47	35·00	231·80	29·67	198·72	32·60	166·83	27·42	129·27	25·92	93·92	25·54	67·54	22·00	30·94	30·79	64·53	28·79	33·09	24·30	173·06
12th		36·42	241·64	33·66	230·46	29·42	198·47	32·40	166·63	27·42	129 27	26·08	94·08	25·63	67·63	21·92	30·86	30·79	64·53	29·00	33·30	23·90	172·66
13th		34·33	240·55	33·00	229·80	29·17	198·22	31·70	165·93	27·25	129·10	26·08	94·08	25·75	67 75	21·75	30·69	30·92	64·66	29·29	33·59	23·50	172·26
14th		34·08	240·23	32·00	228·80	28·67	197·72	31·10	165·33	27·08	128·93	25·83	93·83	25·81	67·81	21·58	30·52	30·96	64·70	29·58	33·88	23·10	171·86
15th		37·00	243·22	34·66	231·46	28·92	197·97	30·70	164·93	26·75	128·60	25·75	93·75	25·92	67·92	21·42	30·36	30·96	64·70	29·92	34·22	22·90	171·66
16th		39·50	245·72	37·33	234·13	29·75	198·80	30·75	164·98	26·33	128·18	25·58	93·58	25·83	67·83	21·25	30·19	30·92	64·66	30·08	34·38	22·60	171·36
17th		41·50	247·72	39·50	236·30	30·42	199·47	31·60	165·83	26·00	127·85	25·25	93·25	25·79	67·79	21·17	30·11	30·88	64·62	30·17	34·47	21·00	170·76
18th		43·00	249·22	40·50	237·30	30·67	199·72	32·00	166·23	26·50	128·35	25·08	93·08	25·77	67·77	21·08	30·02	30 79	64·53	30·17	34·47	21·70	170·46
19th		44·33	250·55	42·00	238·50	30·83	199·88	32·30	166·53	26·75	128·60	25·00	93·00	25·75	67·75	21·00	29·94	30·75	64·69	30·25	34·55	22·80	171·56
20th		42·83	249·05	41·50	238·30	31·00	200·05	33·00	167·23	26·83	128·68	25·25	93·25	25·75	67·75	21·00	29·94	30·75	64·69	30·33	34·63	23·40	173·16
21st		39·41	245·64	38·50	235·30	30·67	199·72	33·00	167·23	27·08	128·93	25·33	93·33	25·75	67·75	21·08	30·02	30·67	64·41	30·33	34·63	24·00	173·76
22nd		36·25	242·47	34·83	231·63	29·75	198·80	32·75	166·98	27·33	129·18	25·50	93·50	25·73	67·73	21·17	30·11	30·67	64·41	30·25	34·55	24·80	173·56
23rd		33·00	238·22	31·00	227·80	28·75	197·80	31·90	166·13	27·33	129·18	26·83	94·83	25·75	67·75	21·17	30·11	30·67	64·41	30·25	34·55	25·60	174·36
24th		33·00	238·22	30·50	227·30	28·83	195·88	31·10	165·33	26·92	128·77	25·92	93·92	26·04	68·04	21·17	30·11	30·73	64·47	30·33	34·63	25·80	174·56
25th		32·05	238·30	31·00	227·80	26·75	195·80	31·00	165·23	26·58	128·43	25·92	93·92	26·13	68·13	21·17	30·11	30·79	64·53	30·46	34·76	26·50	175·26
26th		31·42	237·64	30·00	226·80	26·83	195·88	31·00	165·73	26·25	128·10	25·83	93·83	26·21	68·21	21·25	30·19	30·75	64·49	30·54	34·84	27·00	175·76
27th		30·17	236·39	28·66	225·46	26·58	195 63	31·50	165·73	26·42	128·27	25·75	93·75	26·19	68·19	21·33	30·27	30·58	64·32	30·54	34·84	27·00	175·76
28th		28·50	234·71	26·66	223·46	25·75	194·80	30·90	165·13	25·42	93·42	26·08	68·08	21·42	30·36	30·46	64·20	30·58	34·88	27·20	175·96
29th		27·50	233·72	25·00	221·80	24·58	193·63	29·60	163·83	26·08	127·93	25·33	93·33	26·00	68·00	21·50	30·44	30·33	64·07	30·54	34·84	27·50	176·26
30th		25·00	231·22	23·50	220·30	23·25	192·30	28·60	162·83	25·17	127·02	25 00	93·00	26·00	68·00	21·67	30·61	30·29	64·03	30·46	34·76	27·60	176·36
31st		23·50	229·72	22·00	218·80	21·83	190·88	28·10	162·33	24·42	126·27	24·75	92·75	25·96	67·96	21·83	30·77	30·25	63·99	30·38	34·68	27·60	176·36

Calcutta,
The 2nd December 1890.

G. A. G. Shawe,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 29th November 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 29th November 1890.			Week ending Saturday, the 30th November 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	459	68,150	1,044	136	12,975	168
Jute	406	2,12,650	3,747	402	1,87,210	3,414
Firewood	159	87,300	1,290	102	55,775	790
Other articles	1,382	3,10,775	4,982	1,088	2,15,140	3,435
Total ...	2,406	6,78,875	11,063	1,728	4,71,100	7,807

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	242,421	*3,10,857 4 0	21,10,501 10	5,80,861 11 0	16,204 2 4	9,07,923 1 4	72,062	76,028½	148,090½
Or per mile of railway ...	.....	203 12 5	.....	380 12 4	10 9 11	595 2 8	...	.....	.....
For previous 20 weeks of half-year	4,488,734	48,03,877 3 0	3,70,82,912 30	87,38,033 0 6	3,20,705 8 1	1,38,62,615 12 7	1,293,238	1,512,931½	2,806,169½
Total for 21 weeks ...	4,731,155	51,14,734 7 0	3,91,93,414 0	93,18,894 11 6	3,36,909 10 5	1,47,70,538 12 11	1,365,300	1,588,960½	2,954,260½
Comparison.									
Total for corresponding week of previous year	238,099½	3,45,941 5 7	22,80,128 0	5,80,630 6 9	22,857 2 5	9,49,428 14 9	68,910	82,058	150,977
Per mile of railway corresponding week of previous year ..	.....	226 12 4	.....	380 9 10	14 15 9	622 5 11	...	.....	.....
Total to corresponding date of previous year	5,054,583½	55,71,709 14 7	4,39,70,299 30	97,99,456 0 0	3,42,383 3 1	1,57,06,549 1 8	1,375,647	1,670,531	3,055,178

* The decrease in coaching traffic is chiefly due to figures for the corresponding period of 1889 having included earnings on account of certain troop extra and mule special trains which ran between E. B & N.-W. Railways.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 23rd November 1889.			Receipts for week ending 22nd November 1890.			Total receipts from 1st April 1889 to 23rd November 1889.			Total receipts from 1st April 1890 to 22nd November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,49,429	622	1,525½	9,07,923	595	1,525½	2,77,33,301	535	1,525½	2,58,03,929	497	.....	19,30,372

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,183	5,239 4 0	54,192 30	3,351 9 0	38 14 0	8,628 11 0	1,745	649	2,394
Or per mile of railway ...	178	91 9 3	947 20	58 9 6	0 10 10	150 13 7	.....	.....	.....
For previous 20 weeks of half-year	*254,928	*1,50,025 13 0	†6,69,834 0	†44,389 14 0	‡646 11 0	1,95,062 6 0	27,660½	10,709	38,369½
Total for 21 weeks ...	265,111	1,55,264 1 0	7,24,026 30	47,741 7 0	685 9 0	2,03,691 1 0	29,4¼4½	11,349	40,763½
Comparison.									
Total for corresponding week of previous year	11,188½	5,889 10 2	70,202 20	3,000 13 0	56 11 9	9,037 2 11	1,835	1,084	2,919
Per mile of railway corresponding week of previous year ...	196	102 15 5	1,227 20	54 0 7	0 15 11	157 15 11	.....	.....	.....
Total to corresponding date of previous year	295,217½	1,65,507 1 11	9,62,951 20	47,806 4 0	1,496 13 0	2,14,810 2 11	32,482	15,548	48,030

* Added number of passengers 24,682 and Rs. 14,107 0 0
† Ditto Mds. 2,172-10 and deducted ,, 15 14 0
‡ Deducted ,, 11 15 0
} on account of differences between the approximate and audited returns to week ended 11th October 1890.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 23rd November 1889.			Receipts for week ending 22nd November 1890.			Total receipts from 1st April 1889 to 23rd November 1889.			Total receipts from 1st April 1890 to 22nd November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	9,037	158	57½	8,629	151	57½	3,28,806	169	57½	*3,32,651	171	3,845	.....

Added Rs. 14,079 on account of difference between the approximate and audited figures to week ended 11th October 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, *on* 22¼ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,070	4,516 15 0	9,787 0	414 0 0	5 8 0	4,936 7 0	896	72	968
Or per mile of railway ...	.....	203 0 2	.....	18 9 9	0 3 11	221 13 10	.....	.....	.....
For previous 20 weeks of half-year	*328,644	*80,079 10 0	†1,35,305 20	†4,911 8 0	‡116 14 0	85,108 0 0	18,071	959	19,030
Total for 21 weeks ...	346,714	84,596 9 0	1,45,152 20	5,325 8 0	122 6 0	90,044 7 0	18,967	1,031	19,998
Comparison.									
Total for corresponding week of previous year	14,246	3,489 3 3	5,560 0	207 11 0	3 8 0	3,700 6 3	927	125	1,052
Per mile of railway corresponding week of previous year ...	.....	156 13 1	.....	9 5 4	0 2 6	166 4 11	.....	.....	.....
Total to corresponding date of previous year	373,483	91,185 10 9	1,95,940 30	5,339 8 0	124 7 9	96,649 10 6	19,299	1,524	20,823

* Added No. of passengers 4,532 and Rs. 884 0 0
† Ditto Mds. 1,766-10 and deducted ,, 427 4 0
‡ Ditto ,, 10 0 0
} on account of differences between the approximate and audited returns to week ended 11th October 1890.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 23rd November 1889.			Receipts for week ending 22nd November 1890.			Total receipts from 1st April 1889 to 23rd November 1889.			Total receipts from 1st April 1890 to 22nd November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,700	166	22½	4,936	222	22½	1,79,287	237	22½	*1,75,094	231	.....	4,193

* Added Rs. 467 on account of difference between the approximate and audited figures to week ended 11th October 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 15th November 1890, on 763 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
l traffic for the week ...	128,076	71,410 0 0	6,60,590 0	1,78,250 0 0	16,120 0 0	2,65,780 0 0	20,000	35,537	55,537
er mile of railway	168	94 0 0	866 0	234 0 0	†1 0 0	329 0 0	.....	.....	.....
previous 19 weeks of half-ar	2,622,573	11,43,174 0 0	1,12,35,021 0	28,40,175 0 0	3,03,436 0 0	*42,86,785 0 0	410,499	630,129	1,040,928
Total for 20 weeks	2,750,649	12,14,584 0 0	1,18,95,611 0	30,18,425 0 0	3,19,556 0 0	45,52,565 0 0	430,499	665,966	1,096,465
COMPARISON.									
l for corresponding week previous year	145,591	78,729 0 0	6,08,929 0	1,75,038 0 0	19,180 0 0	2,72,947 0 0	22,310	35,084	57,394
mile of railway correspond-g period of previous year ...	195	105 0 0	815 0	234 0 0	†2 0 0	341 0 0	.....	.....	.....
l to corresponding date of evious year	2,861,973	12,82,831 0 0	1,24,75,067 0	30,82,214 0 0	3,47,916 0 0	47,12,961 0 0	451,487	638,960	1,090,447

* Audited up to week ending 20th September 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 16TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
an age ed.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
17	2,72,947	365	763	2,65,780	348	715	68,48,403	290	759	*69,35,223	277	86,820	.....

* Audited up to week ending 20th September 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
l traffic for the week ...	22,357	9,000 0 0	45,025 0	3,730 0 0	550 0 0	13,280 0 0	3,713	1,992	5,705
er mile of railway	179	72 0 0	360 0	30 0 0	4 0 0	106 0 0	.....	.....	.....
previous 19 weeks of half-ar	476,998	1,73,114 0 0	7,82,872 0	65,085 0 0	2,838 0 0	*2,21,037 0 0	67,959	38,868	106,827
Total for 20 weeks ...	499,355	1,82,114 0 0	8,27,897 0	68,815 0 0	3,388 0 0	2,34,317 0 0	71,672	40,860	112,532
COMPARISON.									
l for corresponding week previous year	27,868	11,089 0 0	39,403 0	2,708 0 0	200 0 0	13,997 0 0	3,587	2,085	5,672
mile of railway correspond-g period of previous year ...	223	89 0 0	315 0	22 0 0	1 0 0	112 0 0	.....	.....	.....
l to corresponding date of evious year	554,975	1,80,481 0 0	11,94,140 0	1,11,510 0 0	3,491 0 0	3,04,482 0 0	70,769	49,103	119,872

* Audited up to week ending 20th September 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 16TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
an age ed.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
25	13,997	112	125	13,280	106	125	4,84,329	117	125	*3,99,826	97	.....	84,503

* Audited up to week ending 20th September 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	14,171	5,020 0 0	37,677 0	3,530 0 0	90 0 0	8,640 0 0	2,410	694	3,10
Or per mile of railway	164	58 0 0	438 0	41 0 0	1 0 0	100 0 0	.....	.....	.....
For previous 19 weeks of half-year	282,611	91,902 0 0	3,60,996 0	33,236 0 0	4,834 0 0	*1,29,072 0 0	45,191	13,457	58,64
Total for 20 weeks ...	296,782	96,922 0 0	3,98,673 0	36,766 0 0	4,924 0 0	1,38,612 0 0	47,601	14,151	61,75
Comparison.									
Total for corresponding week of previous year	16,744	5,167 0 0	36,906 0	3,369 0 0	143 0 0	9,179 0 0	2,548	1,449	3,99
Per mile of railway corresponding period of previous year	195	60 0 0	429 0	45 0 0	2 0 0	107 0 0	.....	.....	.....
Total to corresponding date of previous year	301,117	96,483 0 0	4,69,206 0	38,937 0 0	4,139 0 0	1,39,559 0 0	49,769	18,719	68,48

* Audited up to week ending 20th September 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 16th November 1889.			Receipts for week ending 15th November 1890.			Total receipts from 1st April 1889 to 16th November 1889.			Total receipts from 1st April 1890 to 15th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
80	9,179	107	86	8,640	100	86	2,13,838	75	86	*2,20,473	78	6,635	.....

* Audited up to week ending 20th September 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,376	910 0 0	7,914 0	410 0 0	30 0 0	1,350 0 0	500	250	75
Or per mile of railway ...	86	33 0 0	290 0	15 0 0	1 0 0	49 0 0	.....	.....	.....
For previous 19 weeks of half-year	55,253	19,598 0 0	1,98,571 0	10,755 0 0	282 0 0	*30,635 0 0	10,252	6,304	16,55
Total for 20 weeks ...	57,629	20,508 0 0	2,06,485 0	11,165 0 0	312 0 0	31,985 0 0	10,752	6,554	17,30
Comparison.									
Total for corresponding week of previous year	2,963	1,119 0 0	15,686 0	1,033 0 0	14 0 0	2,166 0 0	586	340	92
Per mile of railway corresponding period of previous year ...	109	41 0 0	576 0	38 0 0	... ...	79 0 0	.....	.....	.....
Total to corresponding date of previous year	62,116	22,658 0 0	1,72,391 0	11,376 0 0	1,416 0 0	35,450 0 0	11,570	7,027	18,59

* Audited up to week ending 20th September 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 16th November 1889.			Receipts for week ending 15th November 1890.			Total receipts from 1st April 1889 to 16th November 1889.			Total receipts from 1st April 1890 to 15th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,166	79	27¼	1,350	49	27¼	61,029	68	27¼	*87,967	64	.....	3,062

* Audited up to week ending 20th September 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 15th November 1890, on 691 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
al traffic for the week ...	65,070	25,990	4,32,770	56,550	8,470	91,010	12,050	16,590	(a)28,640
er mile of railway	95·04	37·61	626·30	81·84	12·26	131·71	.....	.....	.....
previous 18 weeks of half-ear	1,364,950	5,32,039	48,61,184	6,10,040	1,26,987	12,69,066	228,962	220,007	448,969
Total for 19 weeks ...	1,430,020	5,58,029	52,93,954	6,66,590	*1,35,457	13,60,076	241,012	236,597	477,609
COMPARISON.									
Audited figures.									
al for corresponding week of evious year, 649 miles open...	97,878	38,649	3,19,723	36,203	12·223	87,075	12,445	12,096	24,541
mile of corresponding week previous year...	150·81	59·55	492·64	55·78	18·84	134·17	.....	.....	.....
al to corresponding date of evious year	1,593,959	6,00,690	52,19,357	5,96,835	1,58,980	13,56,515	227,027	249,061	476,088

* Steam-boat earnings for the week, Rs. 7,000.
Ditto ditto to date, „ 1,04,740.
* Ajodhya bridge earnings for the week, „ 880.
Ditto ditto to date, „ 5,440.

(a) Train mileage figures —

	Bengal & N.-W. Section.	Tirhoot Section.
	Rs.	Rs.
Coaching ...	5,750	6,300
Goods ...	6,930	9,660
Total ...	12,680	15,960

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

CEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 16TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH NOVEMBER 1889.			Total increase in 1890-91	Total decrease in 1890-91.
an age ked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
91	91,010	131·71	649	87,075	134·17	674	26,83,756	121·72	649	26,72,168	125·31	11,588	...

N.B.—Earnings of B. and N.-W. Section.

	Week ended 15-11-90.	Week ended 16-11-89.
	Rs.	Rs.
Coaching ...	11,530	17,669
Goods ...	18,990	12,660
Other earnings ...	4,950	8,975
Total ...	35,480	39,304

Earnings of Tirhoot Section.

	Week ended 15-11-90.	Week ended 16-11-89.
	Rs.	Rs.
	14,400	20,980
	37,610	23,543
	3,520	3,248
	55,530	47,771

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 15th November 1890	13,671
Corresponding period of 1889	10,955
Increase	2,716
	Rs. A. P.
Receipts per mile for week ending 15th November 1890	268 0 11
Corresponding period of 1889	214 13 1
Increase	53 3 10
Receipts from 1st July to 15th November 1890	2,20,076
Corresponding period of 1889	2,25,825
Decrease	5,749

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APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, DECEMBER 3, 1890.

Notification.

THE following rules under section 17 and scale of charges under section 33 of Act IV (B.C.) of 1887 have been sanctioned by the Government of Bengal, and are published for general information.

D. R. LYALL,

Chairman of the Port Commissioners, Chittagong.

The 13th November 1890.

RULES UNDER SECTION 17 OF ACT IV (B.C.) OF 1887.

Rule under Clause (d)

Rule I.—All payments of dues under Act IV (B.C.) of 1887 shall be made on bills signed by the Vice-Chairman or other duly authorised officer at the Collector of Customs' sub-treasury of the Chittagong Collectorate.

Rule under Clause (e).

Rule II.—Applications for the supply of spring drinking water shall be made at the Office of the Port Commissioners. Unless in cases of emergency, water will be supplied according to date of receipt of application.

SCALE OF CHARGES UNDER SECTION 33 OF ACT IV (B.C.) OF 1887.

(1) Charges under Clause (*b*).

(*a*) *Occupying fixed moorings.*

									Rs.	A.	
All vessels	up to		199	tons gross measurement...			...		1	8	per diem.
,, ,,	from	200	to	299	,,	,,	...	...	2	0	,,
,, ,,	,,	300	,,	399	,,	,,	...	...	2	8	,,
,, ,,	,,	400	,,	499	,,	,,	...	...	3	0	,,
,, ,,	,,	500	,,	599	,,	,,	...	...	3	8	,,
,, ,,	,,	600	,,	999	,,	,,	...	...	4	0	,,
,, ,,	,,	1,000	,,	1,249	,,	,,	...	...	5	0	,,
,, ,,	,,	1,250	,,	1,499	,,	,,	...	...	6	0	,,
,, ,,	,,	1,500	,,	1,749	,,	,,	...	...	7	0	,,
,, ,,	,,	1,750	,,	1,999	,,	,,	...	...	8	0	,,
,, ,,	,,	2,000	,,	2 249	,,	,,	. .	...	9	0	,,
,, ,,	,,	2,250	,,	2,499	,,	,,	...	...	10	0	,,
,, ,,	,,	2,500	,,	2,749	,,	,,	...	...	11	0	,,
,, ,,	,,	2,750	,,	2,999	,,	,,	...	...	12	0	,,
,, ,,	,,	3,000	,,	and upwards		,,	...	...	15	0	,,

(*b*) *Occupying swinging buoys.*

								Rs.	A.	
All vessel	up to	299	tons gross measurement			...	...	1	0	per diem.
,, ,,	300	,,	499		,,	...	...	1	8	,,
,, ,,	500	,,	699		,,	...	...	2	0	,,
,, ,,	700	,,	899		,,	...	...	3	0	,,
,, ,,	900	,,	1,099		,,	...	...	4	0	,,
,, ,,	1,100	,,	1,499		,,	...	...	5	0	,,
,, ,,	1,500	and upwards			,,	...	...	6	0	,,

(c) *Other fees.*

	Rs.
Vessels occupying the jetty head for loading or discharging cargo other than salt, per idem	20
Vessels occupying the jetty head for loading or discharging salt, per thousand maunds of salt loaded or discharged	10
Special rate for each swinging mooring occupied by mail or tug steamer, per mensem	40

(2) Charges under Clause (c).

	Rs.
For mooring at, or unmooring from, the fixed fore-and-aft moorings (with the use of heave-up boat), on each occasion	16
For mooring at, or unmooring from, swinging moorings, on each occasion ...	10
Extra fee for mooring or unmooring a vessel on Sundays and holidays or at night ...	10
Use of heave-up boat for assisting a vessel, per diem	32
Running out anchors for vessels on shore, or going on the hard to clear bottom, on each occasion, if the vessel is under 400 tons	16
Ditto ditto if over 400 tons	32
Use of Port Commissioners' hawser, per diem	10
Shifting a vessel's berth at the request of the agent or master	16
Salvage on anchors and cables, per cwt.	3-8
Hooking	10
Examining bottom by native divers	20
Charge for ballast guards, per diem	1
Use of the Port Commissioners' launch fire-engine for every twelve hours or part thereof	50

Rates for the supply of spring water.

For any quantity not exceeding 500 gallons	10
For any quantity exceeding 500 gallons, per 1,000 gallons or part thereof ...	15

REGISTERED No. 29.]

No. 50 of 1890

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, DECEMBER 10, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE CHITTAGONG DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Calcutta, the 9th December, 1890.

RESOLUTION.

READ—

The General Administration Report of the Chittagong Division for the year 1889-90.

The report is submitted by Mr. Lyall, who was in charge of the Division during the year with the exception of three months, when Mr. Veasey acted as Commissioner.

Tours.

2. Owing to political considerations in connection with the Chin-Lushai Expedition, the Commissioner during the touring season could not leave the Kurnafuli Valley, to which the Deputy Commissioner of the Hill Tracts was also confined. The tours made by the Collectors of Chittagong and Tipperah and by all sub-divisional officers were satisfactory, and a deficiency in the case of Noakhally is accounted for sufficiently.

Weather, crops, and condition of the people.

3. The weather was favourable for rice and jute throughout the Division and bumper crops of both were obtained in Tipperah. There was, moreover, a happy conjunction of good harvests and high prices, and the Commissioner is able to record:—

"The condition of the agricultural classes, who form the bulk of the population, was raised to a point which it has certainly not reached for many years—probably never in parts

of the Division. In Chittagong, in addition to the good harvest, there was a brisk demand for labour in Aracan, so that the people quite got over the bad effects of the previous year. This district, however, has but little surplus crop, and the condition of the people improved less than in the more favoured districts of Noakhally and Tipperah.

"The people of Tipperah were stated last year to have got over the effects of the previous bad years, and the past year has raised the cultivators to a state of prosperity such as they have never before known. Zemindars, including Government, have in consequence realized rent with ease, loans have been repaid, and the Tipperah Loan Bank, Limited, was left at the close of the year with Rs. 30,000 out of its capital of one lakh of rupees uninvested, because there were no borrowers. This is easily understood when the value of the jute crop is considered. The ryots are calculated by the Collector to have received about 42 lakhs of rupees in cash for this crop alone, while its production at a liberal estimate cannot have cost 10 lakhs. The margin of profit is, therefore, very high. The district is so rich that, in spite of the large increase of jute cultivation, it still exports rice largely, and last year both Calcutta and Dacca took large quantities.

"Some people say that the increased cultivation of staples like jute interferes with the food supply. This is not the fact in Tipperah, as the exports of rice from Brahmanbariah show.

"The great bulk of the jute crop is grown in this subdivision, yet last year, it is calculated, rice and paddy to the value of 1½ million rupees were exported from the sub-division alone, without reckoning the exports from the rest of the district."

Even with respect to the Hill Tracts, where there was a partial failure of the important cotton crop and the Lushai Expedition was a disturbing factor, the Commissioner is able to say that "it is many years since the hillmen have been so free of debt as they are at this moment." A considerable number of persons emigrated during the year from these tracts to Hill Tipperah, but the movement appears due to occasional causes not likely to recur. The labourers of Chittagong visited Burma as usual at the busy season and on a somewhat increased scale, returning with sums varying from Rs. 10 to Rs. 80.

With regard to health, the Hill Tracts only are well spoken of; in the remainder of the Division there was considerable mortality from fever, and in Tipperah and Noakhally a large increase of deaths from cholera.

Trdea and Commerce.

4. The following is extracted from the Commissioner's report:—

"The past year has been the best on record as regards the sea-borne trade of the port, in spite of the great falling off in the rice trade.

"The tables below show a falling off of 11 ships engaged in foreign trade, but an increase of tonnage, the average tonnage having increased from 1,233 tons to 1,447. If ships sailing under foreign flags be excluded, the average tonnage of ships sailing under the British flag is 1,602 tons. Interportal trade has also increased largely both in the number of ships engaged and in tonnage. This is partly due to the British India Steam Navigation Company's running two steamers a week for part of the year and partly to the larger quantity of jute imported:—

Foreign Trade.

	Number of Vessels entered.			Tonnage.		
	Inwards.	Outwards	Total.	Inwards.	Outwards.	Total.
1888-89	45	50	95	56,588	60,604	117,192
1889-90	43	41	84	61,509	60,056	121,565
Difference in 1889-90 ...	—2	—9	—11	+4,921	—548	+4,373

Interportal Trade.

	Number of Vessels entered.			Tonnage.		
	Inwards.	Outwards.	Total.	Inwards.	Outwards.	Total.
1888-89	845	837	1,682	165,818	165,495	330,313
1889-90	982	982	1,964	176,650	179,445	356,095
Increase in 1889-90 ...	137	145	282	11,232	13,950	25,182

'The value of the total sea-borne trade of the port increased by the large sum of Rs. 51,13,005, the figures being Rs. 3,16,96,588 as against Rs. 2,65,83,583. Until now the figures of 1887-88 were the highest, but the past year shows an increase of Rs. 26,13,788 as compared with them. So recently as 1876-77 the whole value of the trade of the port was only Rs. 54,39,320, or little more than the increase of the past year, and in these 13 years the value of the trade of the port has sextupled itself, and this with no increased facilities.

"When the Assam Railway is in working, the growth should be even faster, and it is difficult to understand why, in the face of such an increase of trade, there should be any hesitation in making the railway."

The Commissioner gives tables of articles of export and import and explains the fluctuations. There was a large decrease in the export of rice and paddy, the boat traders who generally supply Chittagong preferring to meet the demand in the western districts of Bengal as involving less danger to their boats and cargo. The great increase in the export of jute gives the Commissioner occasion to insist on the advantages that would accrue from a railway. He says:—

"The export of jute is the highest on record, being 222,846 cwt. over last year and 89,222 cwt. higher than 1887-88, which was up to then the highest figure.

"The growth of the jute export trade is very remarkable. It began in 1877-78, when the exports amounted to 130,775 cwt. Five years after, in 1882-83, it amounted to 1,149,257 cwt., and now it has reached 1,505,703 cwt., and this large figure would speedily be doubled if a railway were constructed.

"I do not use the word 'doubled' unadvisedly, but deliberately and with the full conviction that I am not guilty of exaggeration."

The export of tea was 1,172,549lb this year as compared with 1,222,786lb last year. The decrease of 50,237lb is attributed to weather unfavourable for production. In the Hill Tracts the trade in india-rubber is stated to have almost died out, the trees being probably exhausted.

Port of Chittagong.

5. The port of Chittagong under the Commissioners of the Port Trust (this being their first complete year of management) appears to be in a flourishing condition. The port fund closed with a credit balance of Rs. 1,10,397-5-3. The pilotage fund shows a debit balance of Rs. 4,970-6-4½, which will probably be decreased during the year. The barque *Grosvenor* was wrecked during the year, the *Will Duthie* was destroyed by fire, and a fire, which was happily extinguished, occurred on board the barque *Ophelia* partly loaded with jute. Stringent rules are under consideration to meet this source of danger.

Police and Criminal Justice.

There was an increase in reported crime, from 14,955 cases in 1888 to 15,713 in 1889, which is accounted for only in so far as the prosperity of the cultivators afforded them greater facilities for petty prosecutions, and the demand for jute land in Tipperah led to the institution of charges of riot, trespass or mischief. Agrarian disputes of every kind are evidently in this Division a fertile source of crime, at least of collisions involving subsequent magisterial proceedings; and it is to be hoped that the settlement of the Chittagong district, which is being effected at present, may ultimately bring about permanent improvement in this respect, by removing the uncertainty as to possession or ownership which is at the root of such contentions. The Commissioner considers that the conduct of the police and of the chowkidars was good on the whole, noticing that in one important case considerable detective ability was displayed, and that there were few convictions of officers. The returns, however, show that an unusual proportion of prosecutions were unsuccessful, a failure attributed by the Commissioner to pressure of work which, he thinks, prevented Magistrates giving due attention to some cases, particularly in Chittagong and Tipperah. The explanation is of a novel character, and is hardly borne out by the facts that the percentage of convictions was lowest, not in Chittagong or Tipperah, but in the comparatively small district of Noakhally; and that it was most conspicuous in cases tried by benches. The Lieutenant-Governor notices with satisfaction the high tribute paid to the efficiency and good services of the frontier police.

Revenue collections.

7. The collections on account of land revenue were good, inasmuch as they exceeded the current demand and considerably reduced the outstanding balance. In regard to direct management the Commissioner observes:—

"The system of khas collection in Chittagong is now, I consider, an assured success, and Government is collecting a large and safe revenue at a cost of under 10 per cent. (9·5

was the exact figure last year), instead of paying 20 per cent. to izaradars and realizing from them with difficulty. All the five circles collected over 100 per cent on the current demand, which was Rs. 3,94,874, the collections being Rs. 4,36,457. The highest percentage on the current demand was 119, which was obtained in the Raozan circle.

"In Tipperah, although the returns show a balance of Rs. 3,15[illegible] in estates under direct management, this was reduced by collections and remissions to Rs 2,441, while advance collections reached the sum of Rs. 3,431, so that actually Rs. 990 were collected in excess of the whole demand, arrear and current. These figures prove the prosperous state of the district beyond contradiction."

In Noakhally results were not so good, and a scheme has since been prepared for effecting an improvement in the system.

In the Hill Tracts collections also improved, the table showing Rs. 2,51,651-3-4 as against Rs. 1,74,599-0-3 last year. But about Rs. 65,000 of this increase consists of a large accession to the post-office revenue, due to the Chin-Lushai Expedition.

Local self-government institutions.

8. The Commissioner notices the bad influence which is not unfrequently exercised in the administration of boards and municipalities by party spirit arising out of personal questions. But, he adds,—"in spite of such drawbacks, much good work has been done during the past year, particularly by the Tipperah Board, who have also ceased to employ primary school money in supporting higher class schools. They have in hand or in contemplation some really useful new roads and are about to deepen some important khals, and have taken up the question of increasing the number of dispensaries and of improving the water-supply of the district in a business-like spirit. They have also fostered improved steamer communication with other districts. The Noakhally Board, I think, showed a want of appreciation of the importance of improving the inland water system of the district in deciding to drop the scheme for improving the Nadona khal, but they seem now disposed to take it up again."

Conduct of zemindars.

9. The Lieutenant-Governor desires to take this opportunity of acknowledging the valuable services of the tribal Chiefs in the Hill Tracts in getting together men for the Chin-Lushai Expedition. The thanks of the Lieutenant-Governor are given to Mr. Lyall for his excellent administration of the Division during the past and many previous years. The remarks of the Commissioner regarding the conduct of officers will, as usual, be forwarded to the Appointment Department; those upon Mr. Slack, Collector of Chittagong, are noticed by His Honour as particularly favourable.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

REPORT ON EMIGRATION FROM THE DISTRICT OF SARUN.

THE following report is published at the suggestion of the Commissioner of Patna for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

The 4th December, 1890.

No. 6096., dated Bankipore, the 30th September, 1890.

From—W. KEMBLE, Esq., Offg. Commissioner of the Patna Division,
To—The Secretary to the Government of Bengal, General Department.

I HAVE the honour to forward a copy of an interesting report by the Collector of Sarun on the emigration from his district for publication, if it is considered advisable, in the *Calcutta Gazette*. It was first received more than two months ago, but was returned to Mr. Bourdillon at his own request in order that some further and fuller information regarding travellers by railway, which he hoped to be able to procure, might be incorporated in it. These hopes have, however, not been realized, as he has ascertained that as yet most of those who emigrate from Sarun make their journey on foot.

2. The noticeable feature in this emigration is that it is only temporary. So long as the women will not emigrate, and the men send all their earnings back to their homes, returning themselves at intervals, there is no hope of reducing the pressure of the people on the land. Under the circumstances, emigration seems likely to bring about an increase in population.

3. The absence of emigration to Assam is remarkable. I would remark that Goalpara is not one of the Assam tea districts: it belongs properly to the same category as Rungpore. It is satisfactory to see that Sarun men have found their way to Burmah.

No. 1401, dated Chupra, the 8th—10th July, 1890.

From—J. A. BOURDILLON, Esq., Magistrate of Sarun,
To—The Commissioner of the Patna Division.

IN my Annual Administration Report for the year 1889-90, I mentioned that I had been making enquiries about emigration from Sarun, and that I hoped to submit a further report before long. The compilation of the materials for this report has been a more tedious task than I had anticipated, and it is only now that I am able to lay it before you.

2. Four sources of information on this subject are available, viz., (*a*) the people themselves, through the medium of the police, unofficial Europeans, and other local residents in the district; (*b*) the statistics of distribution at the census of 1881; (*c*) the figures of the Postal Department in regard to money-orders paid in Sarun; and, lastly, (*d*) statistics of passenger traffic on the railway. The facts and inferences afforded by the first three will be found detailed below.

3. Emigration from Sarun should be divided first of all into the *quasi*-permanent and the temporary. In the former category I place all those cases in which men leave the district for a year or two at a time, or even longer; the temporary emigration, on the other hand, lasts only a few months.

4. The *quasi*-permanent emigration is affected mostly by two classes of persons—Mahomedans and better class Hindus. The Mahomedans go very largely to Calcutta where they may be found in domestic service as khidmatgars, syces, and drivers of hackney carriages. The better class Hindus go as cartmen and durwans to Calcutta and Darjeeling, while a considerable number of lower caste men, such as Chamars, Dusadhs, and Gareris go as syces. These men remain away for a year or two—sometimes more—making remitances and paying occasional visits to their homes. When a Mahomedan or a low caste Hindu is once well established in a good situation or business, he not infrequently sends for his wife and family.

5. As to the earnings of these people it is difficult to make any exact calculation. They certainly do well, for besides keeping themselves in an expensive place like Calcutta, they remit considerable sums home. Light is sometimes thrown on this side of native life by small incidents. In 1887 a Sarun Mahomedan was executed here for the murder of his aunt following on a quarrel about the expenditure of money he had sent from Calcutta.

It appeared that he had remitted Rs. 80 in two years, and he had led by no means an economical life nor been in continuous employ : the man was by profession a wrestler and as such had travelled literally all over India, but had been, among other things, a gentleman's servant, a ticca-garry driver, and a river boatman.

6. The better class Hindu cartman drives down his cart and bullocks to Calcutta, and when he has repaid his mahajan and made as much as he thinks sufficient, he sells them off and returns home.

7. A few are now going to Burmah voluntarily, besides the very considerable numbers in the Burmah Military Police. These are chiefly domestic servants, such as dhobis, sweepers, and bearers, and they generally follow some relation or fellow villager who has preceded them to this El Dorado.

8. The tea districts and the colonies generally known as "Mirich" (Mauritius) get *very* few men from Sarun, and the figure of the recruiter is seldom seen. The few who do go to the labour districts go privately following some friend or relation, while my experience of the emigrants over sea is that they are usually people who, for some reason for other, find absence from their village advisable. A few do go however. Mr. Reid of Moniara quotes the case of a man in his *dehat* who has returned from Natal with Rs. 10,000. In another part of the district two coolies from the Mauritius, husband and wife, brought back a sum of Rs. 3,500, which proved a veritable Pandora's box to them.

9. On the whole, however, the *quasi*-permanent emigrants do not contribute one-tenth of the Sarun men who may be found in the cold weather scattered all over Upper India. These are mostly mere winter visitants, and to them I now turn.

10. Even in a district so purely agricultural as this, there is not constant employment in the fields for all its swarming population except at one season of the year. The first season of agricultural leisure (to follow the order of the Hindu year) is when the *rubbi* is sown : this is usually accomplished by the end of Kartic (middle of November), and then nothing has to be done except by the poppy cultivators till Phagun-Chait when the *rubbi* has to be cut (March and April). Moreover, the indigo manufacturing season is over and cattle and men all require rest. But even in the *rubbi* harvest all the men of a family are not required, for the light crops of an Indian harvest are gathered very largely in this district by women and children. Consequently there is no work for all the men till the rain falls, when the lands have to be prepared and the *bhadoi* and the rice sown, and when this is done it is time to commence once more the cutting and carting of indigo for manufacture.

11. Seeing, then, that their presence at home is absolutely necessary only from June till November, an immense number of Sarun men spend the months from December to May elsewhere. As soon as the *rubbi* is sown, the exodus begins. Formerly it was confined to the lower classes, but of late years it has been shared by all. Three great characteristics, besides that of brevity, distinguish this emigration from the other, viz., the emigrants go in other directions, all classes go, and hardly any women go except to very near-at-hand places.

12. The destination of a vast proportion of the winter emigrants is "the East" as they themselves call it, and when pressed for further detail it will be found that this means Purneah and Bhagulpore in the Bhagulpore Division, Bogra, Rungpore and Darjeeling in the Rajshahye Division; or further east still, beyond Calcutta and Howrah—the districts of Dacca and Mymensingh. Field labour of the simplest description is the object of these men, such as digging and cleaning tanks, repairing roads, making railway embankments and harvesting the winter rice crop. When women go they either work with their husbands, or else earn an income by grinding corn for the Banias. Some few follow the homely slighted Kahar's trade; while the great majority of those who go to Calcutta and Howrah work as common coolies in the streets, or as mill hands in the mills round the metropolis. The earthwork of the Assam-Behar Railway through Purneah, and of the Northern Bengal Railway in Rungpore, Bogra and Dinagepore, has been largely constructed by Sarun men, and the preparation of the Mymensing-Dacca Branch of the Eastern Bengal Railway attracted a considerable number who now repeat their annual visit to cut the jute in Mymensing and load it in Dacca and Naraingunge.

13. The result of many enquiries seems to show that these emigrants, provided that they keep their health, make about Rs. 50 or Rs. 60 each as profit. Part of this is sent home by money-order when half of their stay is over, and the remainder they bring with them in May and June. Out of this the mahajan has to be paid who advanced them the money necessary for their railway or road expenses and supplied the immediate wants of the family at home till remittances arrived from the eastward. I calculate, therefore, that a net profit of Rs. 30 or Rs. 40 is about what an ordinarily fortunate man makes over the trip. But the proviso quoted above is a very important one, and it is significant how universal is its introduction into all conversations on the subject. Fever is what the Behari fears in Bengal, and the fear of it is another potent inducement driving him home before the rains set in.

14. Mr. Hodding of Burhoga states that a native in his district has started an emigration agency. He charges Re. 1 a head for his services and interest at 25 per cent. on money advanced. In consideration of these payments he gives all information as to route, organizes parties, and lends money merely on personal security. He is said to be doing a good business.

15. The above facts, based mostly on the statements of planters and others, are fully borne out by the figures of the census and the statistics of the Postal Money-order Department.

16. On the 17th February 1881, the number of Sarun born men found in other districts of these provinces was 124,211, and they were most numerous in the following districts:—

Chumparun ...	... 44,835	Purneah ...	... 2,824
Mozufferpore ...	... 10,095	24-Pergunnahs ...	... 2,798
Calcutta and Suburbs	... 9,081	Shahabad ...	... 2,204
Rungpore ...	... 7,269	Howrah ...	... 2,112
Patna ...	... 6,813	Dinagepore ...	... 2,068
Mymensingh ...	... 5,124	Monghyr ...	... 1,979
Durbhunga ...	... 3,593	Maldah ...	... 1,712
Bhagulpore ...	... 3,335	Tipperah ...	... 1,534

17. Omitting the other districts of the Patna Division between which and Sarun there is of course a constant coming and going, it will be seen that the districts stand in the following order:—

Calcutta and Suburbs,	Bhagulpore,	Dinagepore,
Rungpore,	Purneah,	Monghyr,
Mymensingh,	24-Pergunnahs,	Maldah,
	Howrah,	Tipperah,

and this supports very closely the statements of local experts. Still further confirmation to them is afforded by an examination of the comparative figures for male and female emigrants. In Calcutta and the Suburbs and in Howrah, where, as I have said, it is more common for emigrants to settle for some time, the proportion of women to men is 1 in 4, and in the 24-Pergunnahs it is 1 in 5; while in Dinagepore and Rungpore it is 1 in 10 and in Mymensingh, which contributes many boatmen, 1 in 41. In Purneah, Bhagulpore, Maldah and Monghyr, which are districts nearer home, the proportion is from 1 in 2½ (Bhagulpore) to 1 in 8 in Maldah.

18. The statistics of the Postal Department afford similar information. By the courtesy of that department the registers of all money-orders paid in Sarun between the 1st January and 31st December 1889 were placed at my disposal, and I had them tabulated under my supervision.

The total amount paid away in that period was Rs. 11,22,350, and deducting the sum of Rs. 82,056, paid on orders issued from post-offices in the Sarun district, and which represent only local remittances, there remains a sum of Rs. 10,40,294 paid into the district from outside.

19. How much of this sum was sent in the way of family remittances, and how much in the course of trade or business, it is obviously impossible to say; but it is to be remembered that the money-order system has not yet touched that of remittance by *hoondi* and cheque, as means of adjusting commercial transaction, and it is to be noticed that the general average value of each of these money-orders was less than Rs. 20. When it is recollected also that whatever mercantile remittances took place were probably for largest sums, thus raising the general average, the conclusion seems incontrovertible that a vast majority of these orders were for very small sums and almost certainly family remittances.

20. I have tabulated in an appendix the localities from which these money-orders issued, and if the figures do not absolutely prove that Sarun men travel all over India, they show that they have correspondents all over the Empire.

21. The following is the order in which the different revenue divisions of these provinces stand in respect of their remittances, and lower down some district figures will be given:—

	Rs.		Rs.
Calcutta	1,44,935	Chittagong Division ...	12,766
Burdwan Division ...	92,144	Patna (excluding Sarun) ...	1,52,967
Presidency ,, ...	72,818	Bhagulpore Division ...	83,994
Rajshahye ,, ...	1,62,673	Orissa ,, ...	2,287
Dacca ,, ...	84,376	Chota Nagpore ,, ...	15,941

The Rajshahye Division, it will be seen, is far ahead, and exceeds even the Calcutta remittances and those from the Patna Division, for it contains the districts of Darjeeling, Julpigoree and Rungpore. The Burdwan Division owes it high position to the figures for Hooghly and Howrah, the Presidency Division to the inclusion of the 24-Pergunnahs, and those of Dacca and Bhagulpore to the figures respectively for Mymensingh and Purneah.

22. Taking the districts in order, the first 16 are as follows:—

	Rs.		Rs.
Calcutta	1,44,935	Purneah	31,086
Darjeeling	65,548	Rungpore	29,595
Chumparun	51,671	Mozufferpore	25,274
Mymensingh ...	47,884	Dacca	23,182
24-Pergunnahs ...	45,649	Durbhunga	22,782
Julpigoree	40,507	Patna	22,325
Howrah	40,461	Bhagulpore	20,811
Hooghly	35,756	Monghyr	18,727

23. Omitting, as in paragraph 17 above, the other districts of the Patna Division, the order is as follows :—

Calcutta.	Julpigoree.	Rungpore.
Darjeeling.	Howrah.	Dacca.
Mymensingh.	Hooghly.	Bhagulpore.
24-Pergunnahs.	Purneah.	Monghyr.

A reference back to paragraph 17 will show that the home districts eliminated in each case are the same, viz., Chumparun, Mozufferpore, Patna, Durbhunga, and in the emigrant list only Shahabad.

24. But the close similarity will be all the clearer if the two lists are placed in juxtaposition as below, when it will be noticed that out of the 15 names which appear, eight are common to both lists and only seven appear in only one list, viz., Dinagepore, Maldah and Tipperah in the census list, and Darjeeling, Julpigoree, Hooghly and Dacca in the other—

Districts arranged by census figures.	Districts arranged by postal money-orders.
Calcutta and Suburbs.	Calcutta.
Rungpore.	Darjeeling.
Mymensingh.	Mymensingh.
Bhagulpore.	24-Pergunnahs.
Purneah.	Julpigoree.
24-Pergunnahs.	Howrah.
Howrah.	Hooghly.
Dinagepore.	Purneah.
Monghyr.	Rungpore.
Maldah.	Dacca.
Tipperah.	Bhagulpore.
	Monghyr.

25. I do not know that much more remains to be said on the subject, except that I would draw attention to the figures for Assam in the appendix as bearing out my statement that very few Sarun men go to the Assam tea districts. The whole of Assam sends only Rs. 87,183, and there is only one district, viz., Goalpara, which sends more than Rs. 10,000.

26. The Burmah figures also are significant, and the total amounts to Rs. 46,951, of which Rs. 22,692, or nearly half, comes from Rangoon alone. It is also interesting to note that of the whole sum, only Rs. 4,908 was paid in the Sewan circle, thus leading to the conclusion that an appreciation of Burmah and its advantages as a colony has not yet reached into the more distant part of the district. It is also to be noted that nearly all the villages which send recruits to the army and the Burmah Police are in the south and east of the district.

27. Over the passenger statistics in the half-yearly revenue reports of the Bengal and North-Western Railway I have spent a good deal of time without much result. I had hoped to get figures showing month by month the passenger traffic out of the district and into the district, and the places whither and whence our railway passengers travelled. But I found that the preparation of these statistics was so elaborate and expensive an undertaking that it had to be abandoned. From the abstracts given in the reports I find that the inward passenger traffic by Digha Ghât is greater in the second-half year than in the first (Sonepore no doubt accounts for some of this), and that the outward passenger traffic, which, if many Sarun emigrants went by train, would be much larger in the second-half year than in the first, is in reality a good deal smaller, even though it includes the visitors returned from Sonepore.

28. This result is disappointing to me, as I had expected to find further proof in these figures of what I have already pointed out as a law of emigration ; but it fully supports the allegations of many of my informants in the district, viz., that a vest majority of the Sarun emigrants tramp every foot of the way out and home.

Appendix showing the value and place of despatch of money-orders paid in Sarun in 1889.

	Rs.
Calcutta	1,44,935
Lower Provinces (excluding Calcutta and Sarun) ...	6,87,701
Assam	87,183
Burmah	46,951
North-Western Provinces and Oudh	47,340
Central Provinces	4,545
Punjab	5,825
Rajputana	3,437
Central India	1,262
Sindh and Beluchistan	285
Mysore	379
Coorg	150
Madras	3,711
Bombay	6,640
Total ...	10,40,294

J. A. BOURDILLON,
Magistrate.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 6th December 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	Burdwan Divn.		
1	Burdwan Dec. 6, '90	Nil	Weather—bright and cold. *Amun* paddy being reaped with good outturn. *Rubbi* crops doing well. Prices of common rice:— Srs. Sudder ... ... 16¾ Culna ... ... 16 Cutwa ... ... 19 6/16 Ranigunge ... ... 17 } per rupee.
2	Bankoora ,, 6, '90	Nil	Weather—bright and cold. *Amun* harvest has commenced. *Rubbi* eaten by locusts in places. Such lands have been resown. Another swarm of locusts has just passed over the Sudder station from south-west to north-east. The size and colour of the insects are the same as of those that appeared on the 21st ultimo. Common rice selling at 20 seers per rupee at Sudder and 20½ seers at Bissenpore.
3	Birbhum ,, 6, '90	Nil	Weather—seasonable. The crops are being gathered in. Price of rice from 17 to 21 seers per rupee.
4	Midnapur ,, 6, '90	Nil	Weather—seasonable; growing colder. *Amun* rice being generally reaped; about 12 annas outturn expected. Prices of common rice:— Srs. Sudder .. .. 18 Tumlook ... ... 16 Ghatal ... ... 16 Contai ... ... 18 } per rupee.
5	Hooghly ,, 6, '90	Nil	Cold weather set in completely. Prospects of crops good. Outturn of rice may be expected to be 12 annas. Potatoes, peas, &c, expected to turn out well. Prices of common rice:— Srs. Sudder ... ... 13½ Serampore ... ... 13½ Jehanabad .. .. 15¾ } per rupee.
6	Howrah ,, 6, '90	Nil	Weather—seasonable. Prospects of crops good. *Amun* crop being reaped. Coarse rice sells at 14½ seers per rupee.
	Central Districts.		
	Presidency Divn.		
7	24-Pergns. Dec. 9, '90	Nil	Weather seasonable. Prospects of crops good Harvesting of *amun* and sowing of winter crops still continue. Locusts which appeared in parts of the Barrackpore, Baraset, and Bassirhat subdivisions are reported not to have done much damage to the crops. Price of common rice from 13 to 20 seers per rupee.
8	Nuddea ,, 6, '90	Nil	Weather—seasonable. Harvesting of winter rice, *kalai*, *mung*, and *til* going on. Prospects good.
9	Khoolna ,, 6, '90	Nil	Weather—seasonable. Harvesting of *amun* in progress. Prospects favourable except in flooded area.
10	Jessore ,, 6, '90	Nil	Weather—seasonable. Harvesting of *amun* and sowing of winter crops going on. Locusts have done some injury to the crops in all subdivisions except Jhenidah. Price of rice stationary, and prospects of standing crops good.
11	Moorshedabad ,, 6, '90	Nil	Weather—cool *Amun* being harvested. Prospects of *rubbi* favourable. *Kalai* doing well.
	Rajshahye Divn.		
12	Dinagepur ,, 6, '90	Nil	Weather—seasonable. Prospects of crops continue good. Mustard sown to the extent of 10 annas. Price of rice unchanged.
13	Rajshahye ,, 6, '90	Nil	Weather—seasonable. Harvesting of *amun* continues. Reaping of sugarcane commenced. Condition of standing crops good. Sowing of winter crops begun. Transplantation of tobacco not finished.
14	Rungpur ,, 6, '90	Nil	Weather—cloudy with morning fogs. Great damage reported to have been done to the ripening paddy in many places by caterpillars. In other respects prospects are good all round.
15	Bogra ,, 6, '90	Nil	Weather—seasonable. State and prospects of crops satisfactory. Harvesting of winter rice and sowing of spring crops going on; some of the latter are growing well. Common rice selling at 16 seers per rupee.
16	Pubna ,, 6, '90	Nil	Weather—seasonable. Prospects of crops continue good. *Amun* being harvested. Mustard and tobacco sowings going on. Prices stationary.
17	Darjeeling ,, 6, '90	Nil	Weather—cold and misty. Winter rice being harvested. In the hills *bara marua* and *fafar* doing well. Prospects good. *Aghani* rice in Terai now estimated at 16 annas.
18	Julpigoree ,, 6, '90	Nil	Weather—seasonable. *Haimanti* paddy being cut; about 15 annas outturn expected. Sowing of mustard and tobacco going on. No change in the price of rice.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 19	Dacca — Dec. 6, '90	Nil	Weather—seasonable. Harvesting of *amun* going on. Winter crops being sown. In thana Monoharди *mung*, *kalai*, and other *rubbi* crops reported to have been damaged by locusts. Price of common rice from 13 to 17 seers per rupee.
20	Furreedpur — „ 6, '90	Nil	Weather—seasonable. Harvesting of *amun* in progress. Sowing of winter crops will shortly be finished. Common rice selling at from 14 to 18 seers per rupee. Locusts appeared again on the 3rd instant.
21	Backergunge — „ 6, '90	Nil	Weather—cold and seasonable. State and prospects of crops good. Harvesting of *amun* commenced. Common rice selling at 13½ seers per rupee.
22	Mymensingh — „ 6, '90	Nil	Weather—mornings foggy; days clear, but occasionally cloudy. Reaping of *amun* paddy has begun. *Rubbi* crops doing well. Sugarcane ripening. Coarse rice sells at 16½ seers per rupee.
Chittagong Divn. 23	Chittagong — „ 9, '90	Nil	Weather—seasonable. Cultivation of vegetable crop nearly over. Harvesting of early winter rice continues. State and prospects of *amun* very good. Prices steady.
24	Noakholly — „ 6, '90	Nil	Weather—seasonable. Reaping of *amun* and sowing of *rubbi* crops continue. Prospects good.
25	Tipperah — „ 6, '90	Nil	Weather—cold and sunshiny. *Amun* being cut. Cold-weather crops doing well.
26	Chittagong Hill Tracts. — „ 4, '90	Nil	Weather—cold with foggy mornings throughout the week. Gathering of cotton continues. Mustard and other cold-weather crops progressing. Harvesting of late rice crop commenced. Common rice being sold at 11 seers 6¼ chittacks per rupee.
BEHAR.			
Patna Divn. 27	Patna — „ 6, '90	Nil	Weather—cold. Harvesting of paddy in progress. *Rahar* in flower. *Rubbi* crops look well. Prospects of poppy continue good. Prices of food-grains show a tendency to fall.
28	Gya — „ 6, '90	Nil	Weather—cold. Harvesting of paddy continues. Prospects of *rubbi* and poppy favourable. Prices of food-grains falling.
29	Shahabad — „ 6, '90	Nil	Weather—cool and bright with light west winds. State of all crops excellent. Harvesting of paddy continues. Price of rice falling.
30	Durbhunga — „ 6, '90	Nil	West winds prevailing. Harvesting of rice crop in progress. *Rubbi* crops have germinated well. Tobacco and *rahar* promising. Weather favourable for poppy plants. Price of common rice varying from 17 to 18 seers per rupee.
31	Mozufferpur — „ 6, '90	Nil	Weather—seasonable. Prospects of all crops continue good. Harvesting of *aghani* rice commenced. Poppy doing well.
32	Sarun — „ 6, '90	Nil	Weather—colder than before. *Rubbi* sowings completed; prospects excellent. Poppy sowings approaching completion. Paddy harvest commenced; outturn estimated in Sudder subdivision at 5 annas, in Sewan 8 annas, and in Gopalgunge 14 annas.
33	Chumparun — „ 6, '90	Nil	Weather—cool; occasionally cloudy. *Rubbi* and poppy sowings coming to a close; germination healthy and young plants doing well. Harvesting of paddy in progress; new rice has begun to come into the market. Prices tending to fall.
Bhagulpore Divn. 34	Monghyr — „ 6, '90	Nil	Weather—seasonable. Harvesting of winter rice in progress. *Rubbi* sowings still going on. Prospects continue favourable.
35	Bhagulpore — „ 6, '90	Nil	Harvesting of rice progressing fairly.
36	Purneah — „ 6, '90	Nil	Weather—Nights cool. Sun getting less warm during the day. *Aghani* rice still being harvested. Prospects of *rubbi* crops favourable. Mustard doing well.
37	Maldah — „ 6, '90	Nil	Weather—fine and cool. Strong westerly wind began to blow. Harvesting of winter rice going on. Other standing crops doing well. Price of common rice stationary.
38	Sonthal Perghs. — „ 6, 90	Nil	Weather—seasonable. Harvesting of *aghani* crop still going on. Sugarcane pressing has commenced in Deoghur. Prospects of crops good.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divs.	39	Cuttack Dec. 6, '90	Nil	Weather—seasonable. Planting of tobacco going on. Prospects of *guru sarad* (late winter rice) good.
	40	Pooree „ 6, '90	Nil	Weather—seasonable. *Laghu sarad* (early winter rice) being harvested. Late *sarad* ripening. *Dalua* crop being sown. Miscellaneous crops doing well. Price of common rice from 21 to 27 seers per rupee.
	41	Balasore „ 6, '90	Nil	Weather—seasonable. Winter rice being harvested. *Rubbi* crops, sugarcane, and mustard promising.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divs.	42	Hazaribagh Dec. 6, '90	Nil	Weather—cold and seasonable. Harvesting of winter rice continues. *Rubbi* crops doing well. Prospects of poppy continue favourable.
	43	Lohardugga „ 6, '90	Nil	Weather—seasonable. Harvesting of winter rice continues. Rain badly wanted for *rubbi*.
	44	Singbhoom „ 6, '90	Nil	Weather—warm for the season and somewhat cloudy. Harvesting of winter rice continues with excellent results. Prospects of *rubbi* also excellent.
	45	Manbhoom „ 6, '90	Nil	Weather—fairly cool. Rice crop may be said to be a bumper one. Locusts have been seen in the district for some 3 or 4 days past; it is feared that some damage has been done to the *rubbi* crops.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 9th December, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	12 8	14 0	14 8	...	...	...	12 12	12 12	11 10	16 11	16 2	14 10	...	...	...
2	Bankoora	13 12	13 12	13 12	17 0	18 0	14 0	17 8	17 0	15 0	20 0	20 0	19 0		...	...
3	Beerbhoom	16 8	17 4	15 0	...	...	...	13 8	13 8	12 0	18 0	16 8	15 0	...	...	...
4	Midnapore	10 8	10 8	13 8	...	...	...	13 0	11 0	12 0	18 0	16 0	14 0	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	..	8 0	8 0	8 0	13 0	13 0	12 0	.	...	...
6	Howrah	...	...	...	...	...	...	10 0	10 0	9 8	14 8	14 0	13 0	.	...	..
	Central Districts.															
	Calcutta	12 14	13 3	13	18 1	17 10	17 7	8 12	8 10	8 1	13 1	13 3	13 0	16 0	16 0	16 0
7	24-Pergunnahs	13 0	13 0	14 0	17 0	18 0	16 0	8 0	8 0	7 8	15 0	15 0	15 0	...	...	...
8	Nuddea	15 4	15 10	14 14	16 0	17 12	. .	11 13½	11 6	10 10½	15 9½	15 4	12 6	...	...	...
9	Khoolna		...	...	...	...	...	12 8	12 8	11 4	14 0	15 0	12 8	...	...	..
10	Jessore	12 8	13 0	13 5	...	...	...	11 8	11 0	9 0	14 8	13 0	13 0	...	...	...
11	Moorshedabad	16 0	16 0	16 0	...	..	...	10 0	10 0	10 0	16 0	16 0	12 0	...	...	...
12	Dinagepore	14 11	15 10	15 12	20 0	18 0	16 0	14 4	15 0	12 0	18 0	18 0	16 0	...	...	...
13	Rajshahye	15 12	16 8	1 0	24 0	24 0	20 10	12 12	12 12	9 12	16 2	15 15	12 0	...	...	...
14	Rungpore	13 5	13 5	13 5	...	..	...	9 6	9 6	9 7	14 8	13 5	10 5	...	...	...
15	Bogra	15 0	15 0	13 8	...	...	...	13 8	12 0	12 0	16 8 18 0	Old 2 15 1 New ...	13 8 18 0	...	...	...
16	Pubna	18 0	18 12	16 8	...	.	..	7 6	7 5	7 2	15 12	15 8	14 4	...	..	...
17	Darjeeling	8 0	8 0	11 0	10 0	10 0	10 0	5 0	5 0	5 0	15 0	13 0	12 0	...	...	...
18	Julpigoree	13 0	13 0	12 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	15 0	.	.	...
	Eastern Districts.															
19	Dacca	12 0	12 0	13 0	14 0	14 0	20 0	14 0	13 0	9 12	15 0	14 0	11 0	...	...	...
20	Furreedpore	16 0	18 0	13 0	25 0	25 0	..*	12 0	12 0	8 0	14 0	14 0	10 0	...	...	...
21	Backergunge	...	...	...	..	...	...	12 4	12 4	10 0	13 5	13 4	15 0	...	...	...
22	Mymensingh	11 4	11 4	10 0	..	...	...	10 0	10 0	8 14	16 0	12 12	12 4	...	...	...

A In subdivisions retail prices of salt per rupee are :—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Ranegunge 10½ seers.
B At Rampore Haut retail price of salt 9½ seers per rupee.
C In subdivisions retail prices of salt per rupee are :—Contai 9 seers, Tumlook 8 seers, and Ghatal 11 seers.
D In subdivisions retail prices of salt per rupee are :—Serampore 10½ seers and Jehanabad 11 seers.
E In subdivisions retail prices of salt per rupee are :—Baraset 10 seers, Basirhat 10 seers, Diamond Harbour (Kulpihat) seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are :—Kooshtea 10 seers, Meherpore 11 seers, Chooadanga 10 seers, and Ranagha 10 seers.
G In subdivisions retail prices of salt per rupee are :—Satkhira 10 seers and Bagirhat 8 seers.
In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.

...rs of the Districts of Bengal on the 30th November, 1890.

OF 80 TOLAHS.

...A or Cumbu. (...isetum typhoideum.) Next preceding return.	Corresponding return of last year.	Marua or Ragi. (*Eleusine Corocana.*) Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	..	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	..	...	...
...	...	...	...	...
10 9	12 9	...	...	...
...	...	...	...	...
...	...	..	..	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
	...	...	..	...
...	...	...	...	...
...	...	...	..	...
...	...	...	..	...
...	...	...	...	...
...	...	15 0	16 0	13 0
...	...	...	...	...
...	...	..	..	...
...	...	...	...	...
...	...	...	...	...
..	...	...	...	...

...of last year.	Firewood. Present return.	Firewood. Next preceding return.	Firewood. Corresponding return of last year.	Salt. Present return.	Salt. Next preceding return.	Salt. Corresponding return of last year.	Wholesale prices per maund of 40 seers. Salt. Present return.	Salt. Next preceding return.	Salt. Corresponding return of last year.	DISTRICTS.
Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
										BENGAL.
										Western Districts.
0	100 0	100 0	100 0	A 11 1-3 k	11 2 1 k	10 5	3 7 6	3 7 6	3 12 0	Burdwan.
0	280 0	280 0	280 0	10 8	10 8	10 0	3 10 0	3 10 0	3 15 0	Bankoora.
8	160 0	160 0	160 0	B 10 8	10 8	10 8	3 10 0	3 10 0	3 10 0	Beerbhoom.
0	110 0	110 0	160 0	C 10 8	10 8	10 3	3 13 0	3 13 0	3 14 0	Midnapore.
0	120 0	120 0	120 0	D 9 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.
0	100 0	100 0	100 0	10 8	10 8	9 2	3 8 0	3 8 0	3 14 0	Howrah
										Central Districts.
12	90 0	90 0	100 0	10 12	10 10	10 0	3 6 5	3 7 6	3 11 8	Calcutta.
0	100 0	100 0	100 0	E 10 12	10 12	10 0	3 6 6	3 6 6	3 9 9	24-Pergunnahs.
5½	...	...	...	F 9 13	9 13	10 0	3 12 0	3 12 0	3 14 0	Nuddea.
...	160 0	160 0	160 0	G 8 0	8 0	8 8	4 0 0	4 0 0	4 4 0	Khoolna.
0	160 0	160 0	160 0	H 9 2	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.
0	200 0	200 0	220 0	I 11 0	10 12	11 0	3 10 0	3 12 0	3 8 0	Moorshedabad.
...	160 0	160 0	160 0	J 10 0	10 0	9 8	4 0 0	4 0 0	4 0 0	Dinagepore.
13	240 0	240 0	240 0	K 9 9	9 9	8 10	3 13 4	3 13 4	4 5 4	Rajshahye.
8	100 0	100 0	100 0	L 9 6	9 6	8 14	4 4 0	4 4 0	4 8 0	Rungpore.
...	90 0	90 0	90 0	9 0	9 0	9 0	4 0 0	4 0 0	4 2 8	Bogra.
4	200 0	200 0	200 0	M 8 15	8 15	7 6	3 14 0	3 14 0	4 4 0	Pubna.
0	120 0	120 0	120 0	8 0	8 0	6 8	N 5 0 0	5 0 0	5 10 0	Darjeeling.
0	200 0	200 0	128 0	O 10 0	10 0	9 0	4 0 0	4 0 0	4 2 0	Julpigoree.
										Eastern Districts.
0	120 0	120 0	160 0	P 9 12	9 12	9 4	4 0 0	4 0 0	4 4 0	Dacca.
0	80 0	120 0	120 0	10 0	10 0	9 0	4 0 0	3 14 0	4 4 0	Furreedpore.
8	120 0	100 0	120 0	Q 9 0	10 10	10 0	3 12 0	3 12 0	4 0 0	Backergunge.
0	...	...	..	R 10 0	9 8	8 8	4 0 0	4 0 0	4 8 0	Mymensingh.

...salt per rupee are :—Lalbagh 10½ seers, Jungipore 10 seers, and Kandi 11 seers 10 chittacks.
...salt 8 seers per rupee.
...of salt per rupee are :—Nowgong 9 seers 9 chittacks and Nattore 9 seers.
...salt per rupee are :—Nilphamari 9 seers, Gaibanda 8 seers, and Kurigram 8 seers
...salt 10 seers per rupee.
...salt Rs. 4-4 per maund.
...ivision retail price of salt 8 seers per rupee.
...ices of salt per rupee are :—Manickgunge 9 seers, Moonsheegunge 8¾ seers, and Naraingunge 10 seers.
P In subdivisions retail prices of salt per rupee are :—Perozepore 9 seers, Patuakhali 9 seers, and Bhola 8 seers.
Q In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona
R 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S Ch	S. Ch.	S. Ch.	S. Ch	S. Ch	S. Ch.	S. Ch.	S. Ch.
23	Chittagong ..	11 0	12 0	10 0	...	...	...	11 0	11 0	8 0	15 14	15 14	15 0		...	...
24	Noakholly ...	...	...	...	...	...	...	15 0	14 8	11 0	17 0	16 0	13 0	...	...	...
25	Tipperah ...	8 0	10 0	11 7				11 7	11 7	8 14	16 0	16 0	13 14½			...
26	Chittagong Hill Tracts.	...	...	...	...	..	...	10 5	10 5	9 6	11 6¾	11 6¾	10 0	...		...
	BEHAR.															
27	Patna ...	17 8 / 15 8	Red. 17 2 / White. 15 12	17 12 / 15 2	19 8	19 0	22 0	11 0	11 0	10 8	18 0	17 0	17 13	...	...	24 0
28	Gya ...	15 8	15 8	17 8	20 0	19 0	19 0	10 0	10 0	10 0	18 0	17 0	18 0	...	...	...
29	Shahabad ...	15 8	15 8	16 0	16 0	16 0	20 0	9 0	9 0	10 0	16 8	15 0	14 0	20 0	20 0	20 0
30	Durbhunga ...	13 3	14 0	14 13	17 9	17 9	18 4	13 3	12 0	13 8	18 0	16 8	20 8	...	...	...
31	Mozufferpore ...	17 0	16 0	13 0	18 0	17 0	18 0	10 0	8 0	10 0	17 0	14 0	18 0	...	..	...
32	Sarun ...	14 8	14 8	15 8	16 4	16 8	21 0	8 8	8 8	8 8	14 12	14 14	14 6	...	...	...
33	Chumparun ...	18 0	16 0	12 0	22 0	21 0	13 0	9 0	9 0	9 0	18 0	Now 17 0	20 0	.	...	...
34	Monghyr ...	16 12	15 12	20 8	17 13	17 13	21 0	12 0	11 0	12 1	14 11	14 11	18 6	...	...	...
35	Bhagulpore ...	16 6	16 7	18 15	20 3	18 15	18 15	12 10 / 16 6	Old. 10 1 / Now. 12 10	12 0 ...	15 2 / 19 4	Old. 12 10 / Now. 15 2	15 2 ...	...	..	...
36	Purneah ...	16 0	15 0	21 4	...	...		16 0	15 0	19 0	18 0	17 0	21 0	...	...	...
37	Maldah ...	15 8	17 0	18 0	...	...		11 0	11 0	11 0	16 0	15 8	14 0	...	...	...
38	Sonthal Perghs.	14 0	14 0	15 0	...	...	..	13 0	13 0	12 0	21 0	20 0	16 0	...	..	...
	ORISSA.															
39	Cuttack ...	11 13	13 2	14 7	...	...	...	10 8	10 8	10 8	21 0	18 6	18 6	...	..	...
40	Pooree ...	14 7	14 7	18 2	...	...	...	14 7	14 7	13 6	21 0	21 0	18 4	..	..	...
41	Balasore ...	15 0	15 0	15 0	18 0	18 0	13 0	13 0	13 0	12 0	22 0	22 0	17 0	..	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
42	Hazaribagh ...	14 0	14 0	14 0	15 0	16 0	15 0	10 0	10 0	10 0	20 0	19 0	17 0	...	...	...
43	Lohardugga ..	14 0 / 7 2	Red. 13 0 / White ...	11 8 / 11 0	No sale	21 0	13 5	14 0	13 12	13 8	21 0	18 0	16 0	...	...	...
44	Singbhoom ...	16 0	16 0	10 0	20 0	20 0	20 0	14 0	14 0	16 0	20 0	16 0	20 0	...	...	...
45	Manbhoom ...	13 5	13 5	13 5	28 0	28 0	...	13 0	13 0	13 0	23 0	23 0	23 0	...	...	...

S At Cox's Bazar retail price of salt 8 seers per rupee.
T At Feni Hât retail price of salt 8½ seers per rupee.
U In subdivisions retail prices of salt per rupee are :—Buxar 10½ seers, Sasseram 10½ seers, and Bhabuah 9½ seers.
V At Somastipore retail price of salt 11 seers per rupee are.
W In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.
X At Buttiah retail price of salt 10 seers per rupee.

CALCUTTA,
The 9th December, 1890.

ngal on the 30th November, 1890—(concluded).

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi. (*Eleusine Coracana.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	25 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	27 8	26 7	28 9
...	...	...	25 0	25 0	...
...	...	...	22 8	21 0	22 0
...	...	...	30 0	28 0	28 0
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	32 0	30 0	35 0
...	...	...	42 8	40 0	50 0
...	...	...	...	...	...
...	...	...	...	...	...

Wood.		Salt.			Wholesale prices per maund of 40 seers. Salt.			DISTRICTS.
return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
Ch.	S. Ch.	S h.	S. Ch.	S. Ch	Rs. A. P.	Rs A. P.	Rs. A. P.	
		S						*Eastern Districts*—concluded.
0 0	100 0	10 0	10 0	9 0	3 14 0	3 14 0	4 0 0	Chittagong.
..	...	T 9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
..	.	10 0	10 0	8 14	4 0 0	4 0 0	4 8 0	Tipperah.
0 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
								BEHAR.
0 0	130 0	9 8	9 8	9 8	3 9 6	3 10 0	3 14 0	Patna.
0 0	200 0	10 0	10 0	9 2	4 2 0	4 2 0	4 2 0	Gya.
0 0	160 0	U 10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Shahabad.
0 0	200 0	V 11 0	11 0	11 0	3 8 0	3 8 0	3 8 0	Durbhunga.
0 0	160 0	W 10 8	10 0	10 0	3 12 0	4 0 0	4 0 0	Mozufferpore
0 0	160 0	10 4	10 4	9 8	3 11 6	3 14 0	4 2 0	Sarun.
0 0	160 0	X 10 0	10 0	9 8	3 13 0	3 13 0	4 2 0	Chumparun
0 0	147 0	Y 10 8	9 15	9 12	3 10 6	3 13 0	3 14 6	Monghyr.
8	161 0	10 8	10 8	10 1	3 11 0	3 11 0	4 0 0	Bhagulpore.
0	120 0	Z 9 0	9 0	10 4	4 7 0	4 7 0	3 5 4	Purneah.
0	160 0	9 0	9 0	8 0	4 0 0	4 0 0	5 0 0	Maldah.
0 0	200 0	9 0	9 0	9 4	4 0 0	3 14 0	4 0 0	Sonthal Pergbs.
								ORISSA.
0 0	80 0	11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	Cuttack.
0 0	80 0	Z1 9 13	9 13	11 13	3 12 0	3 12 0	3 6 0	Pooree.
0 0	160 0	Z2 10 0	10 0	9 0	3 14 0	3 14 0	4 2 0	Balasore.
								CHOTA NAGPORE.
								South-West Frontier Agency.
0 0	320 0	8 0	8 0	8 0	4 2 0	4 2 0	4 8 0	Hazaribagh.
0 0	140 0	Z3 9 0	9 0	8 8	4 2 0	4 2 0	4 8 0	Lohardugga.
0 0	200 0	8 0	9 0	7 0	5 0 0	4 6 9	5 8 0	Singbhoom.
0 0	200 0	Z4 10 0	9 14	9 0	3 14 0	3 14 0	4 4 0	Manbhoom.

...peg are :—Begusarai 9¼ seers and Jamui 9 seers.
...s per rupee.
...ilt 10 seers per rupee.
...er rupee.
...s per rupee.
... per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Sa

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A.
1	Calcutta ...	2 13 4	2 12 10	2 11 11	1 15 3	2 0 2	2 0 10	4 4 9	4 5 10	4 10 9	2 12 10	2 12 3	2 13
2	Serajgunge ...	1 12 0	1 12 0	2 3 0	...	...	...	4 10 0	4 10 0	5 0 0	3 4 0	3 4 0	3 4
3	Dacca ...	3 4 0	3 4 0	3 0 0	2 12 0	2 12 0	1 15 0	2 12 0	3 0 0	4 0 0	2 10 0	2 13 0	3 9
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 0 0	4 0 0	2 12 0	2 12 0	3 12
5	Chittagong	3 8 0	3 4 0	3 12 0	...	...	...	3 8 0	3 8 0	4 8 0	2 8 0	2 8 0	2 10
6	Patna ...	2 4 0 (Red.) / 2 8 0 (White.)	2 5 0 / 2 8 0	2 5 7 / 2 10 3	2 0 0	2 0 0	1 12 6	3 8 0	3 8 0	3 12 0	2 2 6	2 5 6	2 3
7	Balasore ...	2 8 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	1 13 0	1 13 0	2 4
8	Pooree ...	.	..	...	...	...	.	...	...	...	1 14 3	1 14 3	2 4
	Cuttack ...	3 4 0	3 0 0	2 1 0	...	...	...	3 10 0	3 10 0	3 0 0	1 11 0	2 2 0	2 3

CALCUTTA,
The 9th December, 1890.

t on the 30th November, 1890.

PRICES PER MAUND

AR OR CHOLUM. (*ghum Vulgare.*)			BAJRA OR CUMBU. (*Pennisetum typhoideum.*)		
	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
A.P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
4 0	2 3 6	2 4 0	2 11 0	3 5 7	2 14 8
..	...	...	...	...	...
..	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	1 10 0	..	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

2508*a*

ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
2 7 8	2 8 11	2 2 6	0 5 9	0 5 9	0 5 6	3 6 5	3 7 6	3 11 8	Calcutta.
...	...	...	...	...	...	3 14 0	3 14 0	4 2 0	Serajgunge.
2 8 0	2 8 0	2 12 0	0 5 0	0 5 0	0 4 0	4 0 0	4 0 0	4 4 0	Dacca.
3 4 0	3 4 0	3 12 0	0 8 0	0 8 0	0 8 0	3 11 0	3 11 0	4 0 0	Naraingunge.
...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	4 0 0	Chittagong.
2 6 0	...	1 12 6	0 5 0	0 5 0	0 5 0	3 9 6	3 10 0	3 14 0	Patna.
...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 2 0	Balasore.
...	...	...	...	...	...	3 12 0	3 12 0	3 6 0	Pooree.
2 2 0	2 2 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Cuttack.

ished for general information.

P. NOLAN,
Secy to the Govt. of Bengal.

Meteorological Report of the Provi

al for the month of November 1890.

STATION OBSERVATIONS.

Meteorological Division.	District	Representative stations.	Air Pressure. Highest 8 A.M. barometer reading of month.	Air Pressure. Lowest, 8 A.M. barometer reading of month.	Air Pressure. Mean, 8 A.M., for month.	Air Pressure. Mean reduced to sea-level.	Air Pressure. Variation from normal mean.	Temperature. Highest of month.	Temperature. Lowest of month.	Temperature. Mean daily maximum temperature.	Temperature. Mean daily minimum temperature.	Temperature. Mean daily temperature.	Temperature. Variation from normal mean.	Humidity. Mean, 8 A.M., humidity.	Humidity. Variation from normal mean.	Cloud. Mean cloud amount, 8 A.M.	Cloud. Variation from mean.
Orissa.	Pooree	Pooree	30·130	29·909	30·040	30·083	—	85·7	61·6	83·5	68·7	75·6	—	86	—	4·0	—
		Gopalpore	30·149	29·807	30·043	30·095	+·075	86·2	66·9	81·3	67·0	74·1	—1·0	82	—	2·6	—
		False Point	30·137	29·914	30·034	30·056	+·040	84·9	56·5	81·5	66·2	72·8	—1·1	86	+5	3·4	+0
	Cuttack	Cuttack	30·100	29·860	29·980	30·074	+·057	87·9	58·8	84·6	65·6	75·1	—0·6	75	+2	3·0	+0
	Balasore	Balasore	30·130	29·886	30·018	30·079	+·053	85·4	55·5	82·1	62·3	72 2	—0·1	84	—	0·7	—
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs	Sangor Island	30·137	29·922	30·036	30·093	—·018	84·7	59 9	80·5	66 9	73·3	+0·5	89	+6	3·6	+0
	Midnapore	Midnapore	30·024	29·865	29·916	30·073	+·039	86 3	56·2	83·6	62·0	72·8	+0·6	76	—	1·3	—
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	30·141	29·940	30·046	30·098	+·048	83·5	57·3	80·3	63·7	71·5	—1 7	82	+3	1·5	—1
	Burdwan	Burdwan	30·083	29·886	29·980	30·085	+·052	85·3	57·6	82·4	63·8	73·1	—0·3	77	+3	2·0	—0·
	Bankoora	Bankoora	29·850	29·658	29·746	30·064	+·040	86·1	55·8	82·7	61·4	72 1	+0·6	77	—	2·3	—
	West Burdwan and Beerbhoom	Ranigunge	29·848	29·653	29·749	30·098	+·063	83·3	55 2	81·6	61·1	71 4	—0·9	78	—	1·4	—
	Moorshedabad	Berhampore	30·106	29 900	29·999	30·068	+·038	83 1	59·2	80·6	63·4	72·0	—0·9	86	+8	1·4	—0·
	Nuddea	Krishnagore	30·119	29·915	30·014	30·064	+·049	85·6	54·1	83·1	60·8	72·0	—0·9	70†	—	2·2	—
	Jessore and Khoolna	Jessore	30·132	29·920	30·028	30·063	+·051	84·7	56·0	82·6	64·3	73·5	—1·8	88	+9	2·4	—0·
East Bengal.	Chittagong	Chittagong	30·051	29·866	29·959	30·052	+·052	86·2	¶61·9	82·4	¶67·2	¶74·8	+0 3	91	+3	3·2	—0·
	Chittagong Hill Tracts	Domagri						Observations not received.									
	Backergunge	Barrisal	30·116	29·937	30·031	30·043	+·063	87·3	57·1	81·3	64·4	72·9	—1·4	84	—	1·3	—
	Noakholly	Noakholly	30·118	29·899	30·013	30·058	+·073	85·5	55·5	82·1	62 1	72·1		85	—	0·1	—
	Furreedpore	Furreedpore	30·123	29·910	30·028	30·069	+·070	83·0	55·5	79·6	63·9	71 8	—0·4	85	—	1·0	—
	Dacca	Dacca	30·120	29 935	30·019	30·042	+·041	85·1	57·3	82·8	63·8	73·3	—1·6	83	+3	2 0	—0·
	Tipperah	Commillah	30·102*	29·035*	30·011*	30·048*	+·056	84·4	53·0	82·6	61·2	71 9	—1·7	85	—	1·3	—
	Mymensingh	Mymensingh	30·087	29·925	29·997	30·057	+·057	82·7	54·6	80·6	61·6	71·1	—2·1	88	—	2·2	—
North Bengal.	Bogra	Bogra	30·066	29·899	29·976	30·041	+·065	83·3	55·4	80·3	61·4	70·9	—1·8	85	—	0·5	—
	Pubna	Serajgunge	30 095	29·930	30·008	30·056	+·045	84·0	54·7	80·8	61·1	71·0	—0·8	88	—	1·1	—
	Rajshahye	Rampore Beauleah.	30·086	29·960	29·988	30·061	+·053	82·6	57·4	80·2	63 3	71·8	+1·7	83	—	0·7	—
	Maldah	Maldah	30·112	29 901	29·992	30·077	?	83·7	56·3	81·5	61·7	71·6	?	81	—	0	—
	Dinagepore	Dinageporet	30 037	29·843	29·940	30 036	+·014	83·6	54·2	81·4	60·6	71·0	+1·1	87	—	0·3	—
	Rungpore	Rungpore	30·055‡	29·804‡	29·920‡	30·059‡	+·030	84·2†	55·4†	81·1†	60·5†	70·9†	+0 3	89	—	0·1	—
	Julpigoree and Cooch Behar.	Julpigoree	29·855	29·693	29·777	30·078	+·048	84·4	54·3	80·7	59·1	69·9	—0·5	86	—	0	—
	Darjeeling Hill Tracts	Darjeeling	23·120†	23·011†	23·062†	—	+·006	59 0	37·9	54·0	41·9	48·0	+0·1	74	+5	2·6	—0·
South Bengal.	Purneah and North Bhagulpore.	Purneah	30·047	29·863	29·945	30·078	+·045	83·2	53·0	79·9	58·7	69·3	—1·1	89	+9	0·5	—0·
	Mozufferpore	Mozufferpore	29·953§	29·796§	29·871§	30·061	—	81·9	55·3§	79·9	61 8§	70·7§	—	93*	—	0·2	—
	Durbhunga	Durbhunga	30·015	29·828	29·913	30·059	+·040	82·9	55·0	80·7	59·3	70·0	—1·4	80	—1	0·4	—0·
	Chumparun	Motihari	29·960	29·796	29·858	30·007	+·070	83·2	50·9	80·5	55·4	68·0	—0·3	82	—	0·6	—
	Sarun	Chupra	29·993	29·784	29·878	30·081	+·053	82 3	57·4	80·4	62·1	71·3	+1·3	87	—	0·2	—
South Behar.	Shahabad	Dehree	29·839	29 024	29·731	30·095	+·038	84·3	51·5	81·9	56·3	69·1	—0·3	73	—	1·3	—
		Buxar	?	?	?	?		83·4	52·4	80 9	57·9	69·4	—1·0	71	—	1·8	—
		Arrah	29·978	29·783	29·877	30·078	—	84·2	51·1	81·6	56·7	69·2	—0·3	75	—	1·5	—
	Gya	Gya	29·899	29·619	29·704	30·103	+·046	84·4	52·2	82·1	58·3	70·2	—0·5	73	+9	1·3	—0·
	Patna	Bankipore	30·013	29·803	29·902	30·095	+·035	83·3	52·8	80·3	59·2	69·8	—0·8	68	—1	1·0	—0·
	South Bhagulpore and Monghyr.	Bhagulpore	30·015	29·809	29·902	30·071	+·039	82·3	53·5	80 3	59·2	69·8	+0·2	79	—	0·9	—
	Sonthal Pergunnahs	Naya Doomka	29·666	29·468	29·560	30·083	+·049	82·6	52·8	80·5	59·2	69·9	—0·1	76	—	0·3	—
Chutia Nagpur.	Hazaribagh	Hazaribagh	28·131	27·935	28·020	30·103	+·030	79·2	52·0	77·2	56·8	67·0	+0·1	69	+10	2·4	0
	Lohardugga Manbhoom	Ranchee	28·003	27·809	27·894	30·088	+·035	80·3	40·5	77·5	55·3	66·4	+0·5	68	—	0·7	—
	Singhbhoom	Chyebassa	29·419‖	29·201‖	29·293‖	30·086‖	+·061	86·6§	51·6§	84·0§	60·2§	72·1§	+1·2	74‖	—	2·0‖	—
Assam	Assam	Sibsagar	29·895	29·683	29·783	30·136	+·011	81·3	50·3	77·4	58·3	67·2	—1·2	98	+3	4·9	+0·
		Dhubri	30 047	29·886	29·952	30·070	+ 035	83·7	56·0	78·6	62·3	70·5	—0·3	90	+4	0·5	—0·
		Silchar	30·058†	29·880†	29·960†	30 071†	+·0.8†	80·7	51·4	84·7†	59·8	72·4†	—1·8	86	+3	4·6	+0·

* Mean of 28 days. † ,, 29 ,, ‡ ,, 23 ,, § Mean of 25 days. ¶ ,, 20 ,, ‖ ,, 22 ,,

DISTRICT OBSERVATIONS.

Meteorological Division.	District	Representative station.	Rainfall. Of month. Normal mean.	Of month. Variation from mean.	Of month. Number of rainy days.	Of month. Normal number of rainy days.	Since 15th May 1890. Mean of district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Since 15th May 1890. Mean number of rainy days.	Since 15th May 1890. Normal number of rainy days.
Orissa.	Pooree	Pooree, Gopalpore, False Point	2·34	—0·52	3·8	3·2	65·77	54·67	+11·10	93 8	80·9
	Cuttack	Cuttack	1·15	+0·82	2 2	2·1	63·64	50·05	+12·69	83 2	78 1
	Balasore	Balasore	0·89	—0·02	1·7	1 6	61·26	52·63	+8·63	79 1	74·6
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs	Sangor Island	0·61	+0·03	2·0	1·4	66 29	61·61	+4·68	80·9	83·8
	Midnapore	Midnapore	0·22	—0·22	0·0	0·8	50·00	50·83	—0 83	80·9	70·8
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	0·31	—0·24	0·3	1·1	55·16	50·87	+1·29	83 0	88·2
	Burdwan	Burdwan	0·31	—0·06	0·7	0·7	61·41	46·13	+15·28	82·0	74 3
	Bankoora	Bankoora	0·47	—0·46	0·2	1·2	52·02	51·94	+0 08	77 3	79·4
	West Burdwan and Beerbhoom	Ranigunge	0·14	+0·21	1·3	0·6	63·93	51·59	+12·34	88 1	81 6
	Moorshedabad	Berhampore	0·24	+0·09	0·7	0·5	60·55	49·90	+10 65	82 1	77 3
	Nuddea	Krishnagore	0·32	—0·28	0·2	0·7	55·63	48·02	+6 11	84 4	76 7
	Jessore and Khoolna	Jessore	0·37	—0·31	0·1	1·0	53 53	52·59	+0·94	83·8	83 0
East Bengal.	Chittagong	Chittagong	2·14	—0·77	3 0	2·5	119·06	112·54	+6 52	105·5	105 7
	Chittagong Hill Tracts	Domagri	2·02	—1·60	1·0	2·9	73·32	79·79	- 6·47	96·5	110·1
	Backergunge	Barrisal	1·42	—1·42	0·0	1·8	68·16	75·77	—7·61	100 4	103·6
	Noakholly	Noakholly	2·52	—2·52	0·0	2·2	97·88	105 68	—7·80	107 0	105·5
	Furreedpore	Furreedpore	0·39	—0·39	0·0	1·0	45·42	54·73	—0·31	79 9	84·9
	Dacca	Dacca	0·77	- 0·77	0·0	1·4	58 19	59·84	- 1·65	95 8	89·0
	Tipperah	Commillah	0·73	—0·73	0·0	1 5	60·11	67 68	—7·57	91 2	94·1
	Mymensingh	Mymensingh	0·31	—0·14	0·4	0·9	75·85	68 41	+7·44	92 6	88·3
North Bengal.	Bogra	Bogra	0·17	—0·06	1·0	0·7	78·99	56·91	+22·08	92 9	76·2
	Pubna	Serajgunge	0·41	+0·36	1·0	0·8	54 95	52 82	+2·13	99·0	79·1
	Rajshahye	Rampore Beauleah.	0·57	+0·30	1·0	0·8	75·86	52·81	+23·05	92·9	74·4
	Maldah	Maldah	0·93	+0·76	1·0	0·5	62·14	53·59	+8·55	88 5	81·7
	Dinagepore	Dinagepore	0·02	—0·17	0·5	0·5	81·74	56 27	+25 47	75 8	76·8
	Rungpore	Rungpore	0·19	—0·12	0·0	0·4	103·61	73·19	+30·42	109 6	75·0
	Julpigoree and Cooch Behar.	Julpigoree	0·12	—0·12	0·0	0·3	166·61	73·19	+33·42	109 6	75·0
	Darjeeling Hill Tracts.	Darjeeling	0·10	—0·10	0 0	0·3	154·51	109·61	+44·90	112 6	95·4
South Behar.	Purneah and North Bhagulpore.	Purneah	0·08	—0·08	0·0	0·3	154·51	109·61	+44·90	112 6	95·4
	Mozufferpore	Mozufferpore	0·07	0·30	—0·23	1·0	1·1	165·65	119·87	+45·78	131 1
	Durbhunga	Durbhunga	Nil	0·06	—0·06	0·0	0·2	80 67	58·05	+22·62	77·0
	Chumparun	Motihari	Nil	0·08	—0·08	0·0	0·3	52·57	42 75	+9·82	74·0
	Sarun	Chupra	Nil	0·06	—0·06	0·0	0·3	57·43	43·96	+13·67	72·2
South Behar.	Shahabad	Dehree, Buxar, Arrah	Nil	0·02	—0·02	0·0	0 2	68 47	45·91	+22·56	67·5
	Gya	Gya	Nil	0·18	—0·18	0·0	0·4	53·60	41·85	+11·75	63 7
	Patna	Bankipore	Nil	0·24	—0·24	0·0	0·5	56·03	40·81	+16·12	70·5
	South Bhagulpore and Monghyr.	Bhagulpore	Nil	0·19	—0·19	0·0	0·4	48·10	40·60	+7·50	68 0
	Sonthal Pergunnahs	Naya Doomka	Nil	0·18	—0·18	0·0	0·4	52·25	42·52	+9·73	74·8
Chutia Nagpur.	Hazaribagh	Hazaribagh	0·38	0·16	+0·22	0·3	0·6	63·65	50·26	+13·39	85·3
	Lohardugga Manbhoom	Ranchee	0·01	0·35	—0·34	0·4	1·1	49·45	49·19	+0·26	78·6
	Singhbhoom	Chyebassa	Nil 0·10	0·45 0·18	—0·45 —0·08	0·0 0·5	1·0 0·9	47·01 41·53	47·40 46·22	—0·39 —4·69	77·3 85·5
Assam.	Assam	Sibsagar, Dhubri, Silchar	Nil	0·24	—0·24	0·0	1·5	33·94	50·48	—16·54	83·0

Meteorological Division.	District	Representative station.
Orissa.	Pooree	Pooree, Gopalpore, False Point
	Cuttack	Cuttack
	Balasore	Balasore
South-West Bengal.	South-West Midnapore and South 24-Pergunnahs.	Sangor Island
	Midnapore	Midnapore
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta
	Burdwan	Burdwan
	Bankoora	Bankoora
	West Burdwan and Beerbhoom.	Ranigunge
	Moorshedabad	Berhampore
	Nuddea	Krishnagore
	Jessore and Khoolna	Jessore
East Bengal.	Chittagong	Chittagong
	Chittagong Hill Tracts	Domagri
	Backergunge	Barrisal
	Noakholly	Noakholly
	Furreedpore	Furreedpore
	Dacca	Dacca
	Tipperah	Commillah
	Mymensingh	Mymensingh
North Bengal.	Bogra	Bogra
	Pubna	Serajgunge
	Rajshahye	Rampore Beauleah.
	Maldah	Maldah
	Dinagepore	Dinagepore
	Rungpore	Rungpore
	Julpigoree and Cooch Behar.	Julpigoree
	Darjeeling Hill Tracts.	Darjeeling
South Behar.	Purneah and North Bhagulpore.	Purneah
	Mozufferpore	Mozufferpore
	Durbhunga	Durbhunga
	Chumparun	Motihari
	Sarun	Chupra
	Shahabad	Dehree, Buxar, Arrah
	Gya	Gya
	Patna	Bankipore
	South Bhagulpore and Monghyr.	Bhagulpore
	Sonthal Pergunnahs	Naya Doomka
Chutia Nagpur.	Hazaribagh	Hazaribagh
	Lohardugga Manbhoom	Ranchee
	Singhbhoom	Chyebassa
Assam.	Assam	Sibsagar, Dhubri, Silchar

Table of Rainfall recorded at Stati

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Orissa ...	Pooree ...	Pooree ...	1·17	0·18	0·01	0·41	0·43	0·08	...	...	...	0·17	...	...	...	...	...	...	...	...	...
		Khurdah ...	...	...	0·06	...	...	...	...	...	...	...	0·20	...	...	...	...	...	...	...	...
		Banpur ...	0·30	0·60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		False Point ...	0·44	1·78	...	0·36	1·06	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gop ...	1·49	1·35	0·08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Satpara ...	2·25	0·40	...	0·47	1·05	0·02	0·15	...	...	...	...	...	...	...	...	...	...	...	...
		Pipli ...	0·18	...	0·11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack ...	Jagatsingpore	1·66	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banki ...	3·61	2·07	...	...	...	...	...	...	...	0·17	...	...	...	...	...	...	...	...	...
		Cuttack ...	1·06	0·73	...	...	...	...	...	...	0·15	...	...	...	...	...	...	...	...	...	...
		Kendrapara ...	0·32	0·27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jajpore ...	...	0·24	...	...	...	...	...	...	...	0·22	...	...	...	...	...	...	...	...	...
		Dharmsalla ...	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Salipore ...	0·70	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Balasore ...	Chandbali ...	0·03	0·10	0·03	...	...	...	...	...	...	0·25	...	...	...	...	...	...	...	...	...
		Bhuddruck ...	...	0·08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Soroh ...	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balasore ...	2·05	0·20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jellasore ...	1·21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baripodah ...	0·61	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South-West Bengal.	Midnapore ...	Contai ...	0·30	0·15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sangor Island	0·20	1·22	0·02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Tumlook ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Midnapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ghatal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kukrahaty ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garbeta ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	24-Pergunnahs	Diamond Harbour.	0·04	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Canning Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Alipore Jail ...	...	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrackpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dum-Dum ...	0·59	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baraset ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Busserhat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Howrah ...	Howrah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohesreka (*Odoaberiah*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hooghly ...	Serampore ...	0·03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hooghly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Burdwan ...	Oulna ...	0·20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burdwan ...	0·80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cutwa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raneegunge ...	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mankur ...	0·41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankoora ...	Bankoora ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bishenpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Maliara ...	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Khatra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Indas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kotalpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Anda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gangajalghati ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sonamukhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Beerbhoom ...	Bh. Soory ...	0·23	0·10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hetampore ...	0·70	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rampore Haut ...	...	0·20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Holpur ...	...	1·19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Murarai ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nuddea ...	Ranaghat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kishnaghur ...	0·20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chooadanga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Meherpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kooshtea ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Khoolna ...	Satkhira ...	0·48	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bagirhat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Khoolna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nakipur ...	...	0·90	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rampal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jessore ...	Narail ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jessore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhenidah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Magoorah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bongong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Moorshedabad	Kandi ...	0·80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Berhampore ...	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lalbagh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Azimgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jungipore ...	0·50	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lalgola ...	...	0·65	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jiagunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Akhriganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Patkabari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
East Bengal.	Chittagong ...	Cox's Bazar ...	...	0·64	0·20	0·53	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chittagong ...	...	...	0·02	1·30	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kutubdia ...	...	...	1·20	0·45	0·80	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Satkanya ...	...	...	...	0·15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chittagong Hill Tracts.	Rangamati ...	0·03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Runa ...	...	0·80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

in November 1890.

24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January to 30th November 1890.	Average rainfall from 1st January up to 30th November.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	6	3·2	2·98	2·10	1·17	71·37	53·05	Pooree ...	Pooree ...	Orissa.
...	...	...	...	...	...	...	2	3·1	0·21	1·61	0·17	57·12	58·79	Khurdah.		
...	...	...	...	...	...	...	3	3·1	1·10	2·03	0·60	61·03	54·78	Banpur.		
...	...	...	...	...	...	...	4	3·4	3·63	2·28	1·78	46·86	68·80	False Point.		
...	...	...	...	...	...	...	3	?	2·92	?	1·40	?	?	*Gop.*		
...	...	...	...	...	...	...	6	?	4·04	?	2·25	45·27	?	*Satpara.*		
...	...	...	...	...	...	...	2	?	0·29	?	0·18	82·59	?	*Pipli.*		
...	...	...	...	...	...	...	1	1·4	1·60	1·34	1·60	66·41	51·50	Jagatsingpore.	Cuttack.	
...	...	...	...	...	...	...	3	4·0	5·25	2·41	3·61	70·43	54·08	Banki.		
...	...	...	...	...	...	...	3	2·4	1·94	1·07	1·06	85·15	57·63	Cuttack.		
...	...	...	...	...	...	...	2	1·6	0·59	0·31	0·32	53·87	56·63	Kendrapara.		
...	...	...	...	...	...	...	2	1·0	0·46	0·70	0·24	56·43	59·59	Jajpore.		
...	...	...	...	...	...	...	1	?	0·10	?	0·10	56·15	?	*Dharmsala.*		
...	...	...	...	...	...	...	1	?	0·70	?	0·70	68·86	?	*Salipore.*		
...	...	...	...	...	...	...	4	2·0	0·41	1·05	0·25	54·93	58·22	Chandbali	Balasore.	
...	...	...	...	...	...	...	1	1·8	0·08	0·49	0·08	67·89	58·15	Bhuddruck.		
...	...	...	...	...	...	...	1	1·5	0·10	0·85	0·10	61·13	56·75	Soroh.		
...	...	...	...	...	...	...	2	1·6	2·25	1·05	2·05	73·17	66·59	Balasore.		
...	...	...	...	...	...	...	1	0·9	1·21	0·42	1·21	57·94	57·18	Jellasore.		
...	...	...	...	...	...	...	1	2·0	0·61	0·95	0·61	67·24	60·67	Barripodah.		
...	...	...	...	...	...	...	2	1·1	0·45	1·02	0·30	70·31	68·79	Contai ...	Midnapore ...	South-West Bengal.
...	...	...	...	...	...	...	3	1·9	1·44	0·81	1·22	70·08	71·92	Sangor Island		
...	...	...	...	...	...	...	Nil	0·5	Nil	0·10	Nil	59·30	58·19	Tumlook.		
...	...	...	...	...	...	...	Nil	1·2	Nil	0·32	Nil	49·51	59·31	Midnapore.		
...	...	...	...	...	...	...	Nil	0·3	Nil	0·15	Nil	47·02	61·88	Ghatal.		
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	53·86	?	*Kukrahaty.*		
...	...	...	...	...	...	...	Nil	?	Nil	0·55	Nil	51·12	56·02	*Garbeta.*		
...	...	...	...	...	...	...	1	1·3	0·01	0·38	0·01	61·55	66·39	Diamond Harbour.	24-Pergunnahs	
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	67·78	?	*Canning Town.*		
...	...	...	...	...	...	...	1	1·2	0·05	0·42	0·05	64·87	67·97	Alipore Jail.		
...	...	...	...	...	...	...	Nil	1·2	Nil	0·30	Nil	58·81	59·75	Barrackpore.		
...	...	...	...	...	...	...	1	1·2	0·53	0·29	0·59	58·72	59·69	Dum-Dum.		
...	...	...	...	...	...	...	Nil	1·1	Nil	0·36	Nil	57·08	58·51	Baraset.		
...	...	...	...	...	...	...	Nil	1·1	Nil	0·37	Nil	65·67	63·22	Busserhat.		
...	...	...	...	...	...	...	Nil	1·8	Nil	0·41	Nil	54·29	61·09	Howrah ...	Howrah.	
...	...	...	...	...	...	...	Nil	0·7	Nil	0·45	Nil	63·10	59·76	Mohesreka (*Odoaberiah*)		
...	...	...	...	...	...	...	1	1·1	0·63	0·10	0·03	57·07	58·03	Serampore ...	Hooghly.	
...	...	...	...	...	...	...	Nil	0·9	Nil	0·10	Nil	54·95	59·54	Hooghly.		
...	...	...	...	...	...	...	Nil	0·5	Nil	0·26	Nil	54·69	62·35	Jehanabad.		
...	...	...	...	...	...	...	1	0·6	0·20	0·58	0·20	57·72	52·64	Oulna ...	Burdwan.	
...	...	...	...	...	...	...	1	0·9	0·56	0·57	0·56	57·80	57·02	Burdwan.		
...	...	...	...	...	...	...	Nil	0·6	Nil	0·51	Nil	67·27	5·40	Cutwa.		
...	...	...	...	...	...	...	1	0·6	0·10	0·21	0·10	62·28	55·94	Raneegunge.		
...	...	...	...	...	...	...	1	?	0·41	?	0·41	50·10	?	*Mankur.*		
...	...	...	...	...	...	...	Nil	0·8	Nil	0·45	Nil	60·01	56·24	Bankoora ...	Bankoora.	
...	...	...	...	...	...	...	Nil	1·2	Nil	0·54	Nil	54·11	57·38	Bishenpore.		
...	...	...	...	...	...	...	1	1·0	0·05	0·33	0·05	49·61	54·71	Maliara.		
...	...	...	...	...	...	...	Nil	1·6	Nil	0·82	Nil	41·66	50·45	Khatra.		
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	61·95	?	*Indas.*		
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	70·35	?	*Kotalpore.*		
...	...	...	...	...	...	...	Nil	1	Nil	?	Nil	56·01	?	*Anda.*		
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	65·10	?	*Gangajalghati.*		
...	...	...	...	...	...	...	Nil	?	Nil	0·60	Nil	54·76	57·27	*Raipore.*		
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	54·39	?	*Sonamukhi.*		
...	...	...	...	...	...	...	2	0·8	0·31	0·16	0·23	61·14	55·72	Bh. Soory ...	Beerbhoom.	
...	...	...	...	...	...	...	1	0·1	0·76	0·20	0·76	63·15	57·06	Hetampore.		
...	...	...	...	...	...	...	1	0·6	0·20	0·26	0·20	73·58	60·27	Rampore Haut.		
...	...	...	...	...	...	...	?	?	1·19	?	1·19	60·02	?	*Holpur.*		
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	60·03	?	*Murarai.*		
...	...	...	...	...	...	...	Nil	0·3	Nil	0·60	Nil	58·3	55·25	Ranaghat ...	Nuddea.	
...	...	...	...	...	...	...	1	0·9	0·20	0·10	0·20	65·36	54·59	Kishnaghur.		
...	...	...	...	...	...	...	Nil	0·7	Nil	0·50	Nil	54·01	60·22	Chooadanga.		
...	...	...	...	...	...	...	Nil	0·8	Nil	0·20	Nil	61·61	59·10	Meherpore.		
...	...	...	...	...	...	...	Nil	0·8	Nil	0·26	Nil	58·11	61·02	Kooshtea.		
...	...	...	...	...	...	...	1	1·1	0·18	0·40	0·18	64·15	64·15	Satkhira ...	Khoolna.	
...	...	...	...	...	...	...	Nil	1·1	Nil	0·03	Nil	66·92	61·53	Bagirhat.		
...	...	...	...	...	...	...	Nil	1·0	Nil	0·42	Nil	58·00	63·01	Khoolna.		
...	...	...	...	...	...	...	1	?	0·99	?	0·99	80·17	?	*Nakipur.*		
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	68·72	?	*Rampal.*		
...	...	...	...	...	...	...	Nil	0·8	Nil	0·50	Nil	59·91	54·72	Narail ...	Jessore.	
...	...	...	...	...	...	...	Nil	1·3	Nil	0·87	Nil	68·08	67·42	Jessore.		
...	...	...	...	...	...	...	Nil	1·0	Nil	0·53	Nil	59·03	61·83	Jhenidah.		
...	...	...	...	...	...	...	Nil	1·0	Nil	0·29	Nil	59·20	59·46	Magoorah.		
...	...	...	...	...	...	...	Nil	0·7	Nil	0·35	Nil	59·65	58·67	Bongong.		
...	...	...	...	...	...	...	1	0·3	0·83	0·42	0·83	68·09	55·02	Kandi ...	Moorshedabad.	
...	...	...	...	...	...	...	1	0·4	0·05	0·34	0·05	61·25	55·27	Berhampore.		
...	...	...	...	...	...	...	Nil	0·5	Nil	0·30	Nil	61·37	55·12	Lalbagh.		
...	...	...	...	...	...	...	Nil	0·6	Nil	0·25	Nil	59·40	59·24	Azimgunge.		
...	...	...	...	...	...	...	1	0·5	0·50	0·11	0·50	54·71	55·35	Jungipore.		
...	...	...	...	...	...	...	1	0·5	0·65	0·22	0·65	70·39	54·70	Lalgola.		
...	...	...	...	...	...	...								Jiagunge.		
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	65·89	?	*Akrigunj.*		
...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Patkabari.*		
...	...	...	...	...	...	...	3	2·7	1·37	2·54	0·64	135·95	145·58	Cox's Bazar ...	Chittagong ...	East Bengal.
...	...	...	...	...	...	...	3	2·3	1·37	1·29	1·20	117·84	105·00	Chittagong.		
...	...	...	...	...	...	...	3	?	2·25	?	1·29	129·02	?	*Kutubdea.*		
...	...	...	...	...	...	...	1	?	0·15	?	0·15	87·81	?	*Satkanya.*		
...	...	...	...	...	...	...	1	2·5	0·03	1·75	0·03	81·88	95·44	Rangamati ...	Chittagong Hill Tracts.	
...	...	...	...	...	...	...	1	5·3	0·89	2·37	0·80	86·45	87·94	Runa.		

Table of Rainfall recorded at

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
EAST BENGAL —*concld.*	Backergunge...	Patuakhally ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Perozepore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Burrisal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhola ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gournadi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bauphal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Noakholly ...	Noakholly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Fenny ...	...	...	...	0·00	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Harishpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Furreedpore...	Madaripore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Furreedpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Goalundo ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dacca ...	Munshigunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dacca ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Naraingunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manickgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Joydebpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill Tipperah	Agartola ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tipperah ...	Comilla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chandpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Brahmunberin ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramchandrapore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nasirnagar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudkandi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kasba ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Laksham ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mymensingh..	Kishoregunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Atia (*Tangail*)	0·81	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mymensingh	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamalpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Netrokona ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Subornakhally	0·42	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durgapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sherpore Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dewangunj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NORTH BENGAL	Pubna ...	Pubna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Serajgunge ...	0·77	0·37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bogra ...	Sherpore ...	0·59	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowkhilla ...	0·37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bogra ...	0·69	0·08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Panchbibi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rajshahye ...	Beauleah ...	0·95	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nattore ...	1·55	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Naogaon ...	0·30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lalpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Manda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maldah ...	Maldah ...	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chanchal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gajol ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sibganj ...	0·12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dinagepore ...	Mohadebpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Churamon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raigunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dinagepore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baloorchat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Thakurgaon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rungpore ...	Bhawanigunge (*Gyabanda*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rungpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kurigram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Haragora (*Nilphamari*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ulipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Julpigoree ...	Julpigoree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Alipore Boar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Falacotta ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Debiganj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhogotpore (*Nagrakatta*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar..	Dinhatta ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Cooch Behar...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mickligunee...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Matabhanga...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Darjeeling Hill	Buxa ...	...	...	...	...	...	...	...	0·03	...	0·06	...	...	...	...	0·13	...	...	...
		Siliguri ...	...	...	...	...	...	...	...	...	...	0·04	...	...	...	...	...	...	...	...
		Darjeeling ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kalimpong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kurseong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NORTH BEHAR	Purneah ...	Kissengunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrareah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Purneah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Goadwara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balarampore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Matiari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kaliagunj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	North Bhagulpore.	Maddapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Soogool ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Protabgunj ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

gal in November 1890—*continued.*

19	20	21	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th Nov. 1890.	Average rainfall from 1st January up to 30th November.	District.	Station.	Meteorological division.
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·4	Nil	1·56	Nil	83·61	96 76	Patuakhally ...	Backergunge.	EAST BENGAL —*concld.*
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·7	Nil	1·15	Nil	65·77	78·39	Perozepore.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	2·1	Nil	1·11	Nil	73·24	79·05	Burrisal.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	2·1	Nil	1·30	Nil	73·38	91·43	Bhola.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	62·06	?	*Gournadi.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	75·57	?	*Bauphal.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	2·3	Nil	1·75	Nil	105·02	112·01	Noakholly ...	Noakholly.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	2·3	Nil	2·08	Nil	114·61	120 83	Fenny.		
...	...	...	...	...	...	...	...	...	...	...	...	1	?	0·00	?	0·00	178·33	?	*Harishpore.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	74·25	?	*Ramgany.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0·51	Nil	51·83	67·56	Madaripore ...	Furreedpore.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·2	Nil	0 48	Nil	53·01	68·83	Furreedpore.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·9	Nil	0 33	Nil	56 56	62·85	Goalundo.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·85	Nil	67·17	83·00	Munshigunge.	Dacca.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·67	Nil	71·21	72·84	Dacca.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	2·0	Nil	1·12	Nil	70 09	74·73	Naraingunge.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·39	Nil	69·79	61·70	Manickgunge		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	79·33	?	*Joydebpore.*		
												Nil	1·5	Nil	0·92	Nil		78·22	Agartola ...	Hill Tipperah.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	2·0	Nil	1·26	Nil	74·90	92·10	Comilla ...	Tipperah.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·81	Nil	67·28	88·14	Chandpore.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·1-	Nil	0·55	Nil	69·02	79·34	Brahmunberin.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	85·07	?	*Ramchandrapore.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	64·41	?	*Nasirnagar.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	35·86	?	*Daudkandi.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	61·22	?	*Kasba.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	80·60	?	*Laksham.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·42	Nil	81·10	83·04	Kishoregunge.	Mymensingh.	
...	...	...	...	...	...	...	...	...	...	...	...	1	0·8	0·81	0·23	0·81	67·79	65·02	Atia (*Tangail*).		
...	...	...	...	...	...	...	...	...	...	...	...	1	1·3	0·65	0·72	0·07	91·62	92·57	Mymensingh.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·29	Nil	52·80	75·31	Jamalpore.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·29	Nil	108·40	95·49	Netrokona.		
...	...	...	...	...	...	...	...	...	...	...	...	1	?	0·42	?	0·42	67·99	?	*Subornakhally.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	123·25	?	*Durgapore.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	83·00	?	*Sherepore Town*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	81·84	?	*Dewangunj.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·33	Nil	60·82	64·09	Pubna ...	Pubna ...	NORTH BENGAL.
...	...	...	...	...	...	...	...	...	...	...	...	2	0·8	1·14	0·57	0·77	75·32	60 81	Serajgunge.		
...	...	...	...	...	...	...	...	...	...	...	...	1	0·8	0·59	0·61	0·59	81·96	63·95	Sherpore ...	Bogra.	
...	...	...	...	...	...	...	...	...	...	...	...	1	1·1	0·57	0·54	0·37	87·79	61·83	Nowkhilla.		
...	...	...	...	...	...	...	...	...	...	...	...	1	0·8	0·68	0·76	0·60	85·36	75·57	Bogra.		
...	...	...	...	...	...	...	...	...	...	...	...	2	0·2	Nil	0·06	Nil	88·52	60·51	Panchbibi.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil									
...	...	...	...	...	...	...	...	...	...	...	...	1	0·4	0·95	0·27	0·95	75·99	54·36	Beauleah ...	Rajshahye.	
...	...	...	...	...	...	...	...	...	...	...	...	1	0·3	1·55	0·25	1·55	97·63	62 13	Nattore.		
...	...	...	...	...	...	...	...	...	...	...	...	1	0·9	0·30	0·19	0·30	70·23	65·24	*Naogaon.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	58·12	?	*Lalpore.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	50·23	?	*Manda.*		
...	...	...	...	...	...	...	...	...	...	...	...	1	0·5	0·03	0·21	0 03	66·89	53·50	Maldah ...	Maldah.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0 26	Nil	62·80	58·61	Chanchal.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	78·65	?	*Gajol.*		
...	...	...	...	...	...	...	...	...	...	...	...	1	?	0·12	?	0·12	64·63	?	*Sibganj.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·14	Nil	71·77	60·09	Mohadebpore...	Dinagepore.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·16	Nil	83·48	58·75	Churamon.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·10	Nil	95·98	62·14	Raigunge.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·22	Nil	94·01	74·44	Dinagepore.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·10	Nil	85·05	58 39	Baloorchat.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	110·36	?	*Thakurgaon.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·2	Nil	0·13	Nil	135·26	68 67	Bhawanigunge (*Gyabanda*).	Rungpore.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·39	Nil	105·44	83·04	Rungpore.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·2	Nil	0·22	Nil	103·11	85·47	Kurigram.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·2	Nil	0·08	Nil	110·41	90·38	Baidogra. (*Nilphamari.*)		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	110·94	?	*Ulipore.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·2	Nil	0·10	Nil	136·80	128·20	Julpigoree ...	Julpigoree.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	149·88	?	*Alipore Boar.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	156·98	?	*Falacotta.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	121·84	?	*Debiganj.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	193·30	?	*Bhogotpore* (*Nagrakatta.*)		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·05	Nil	140·40	110·05	Dinhatta		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·11	Nil	182 85	129·46	Cooch Behar...	Cooch Behar.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0 05	Nil	158·69	117 46	Mickigunge ...		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·05	Nil	165·42	124·21	Matabhanga		
...	...	...	...	...	...	...	...	...	...	...	...	3	1·7	0·23	0·50	0·13	223·86	212·70	Buxa ...	Darjeeling.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·28	Nil	180·27	119·45	Siliguri.		
...	...	...	...	...	...	...	...	...	...	...	...	1	0·8	0·04	0·22	0·04	157·90	129·40	Darjeeling.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	1·3	Nil	0·23	Nil	129·22	94·04	Kalimpong.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	200·45	?	Kurseong.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·2	Nil	0·07	Nil	110·61	74·59	Kissengunge ...	Purneah ...	NORTH BEHAR.
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·1	Nil	0·06	Nil	80·31	68·27	Arrareah.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·08	Nil	83·17	64 01	Purneah.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Goadwara.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	102·88	?	*Balarampore*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Matiari.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	125·25	?	*Kaliagunj.*		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·08	Nil	62·97	53·63	Maddapore ...	North Bhagulpore.	
...	...	...	...	...	...	...	...	...	...	...	...	Nil	0·2	Nil	0·05	Nil	65·10	50·48	Soogool.		
...	...	...	...	...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	51·12	?	*Protabgunj.*		

Table of Rainfall recorded at Stati

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
North Behar —*concld.*	Durbhunga ...	Tajpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Durbhunga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Madhubani ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bahera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Roshera ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mozufferpore	Sitamarhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mozufferpore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hajipore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Para ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahua ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sonhar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pupri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumparun ...	Motihari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bettiah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bagaha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barhurwa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sarun ...	Gopalgunge ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sewan ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chupra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Behar	Shahabad ...	Buxar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dehree ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bhubooah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sasseram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arrah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohaniah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gya ...	Aurungabad...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nowadah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Arwal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Daudnagar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sheerghati ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rajauli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakri Barawan.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Patna ...	Patna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dinapore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Behar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bekram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hilsa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Monghyr ...	Begoosserai ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Monghyr ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamui ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gopri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sheikpura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Bhagulpore	Bhagulpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Banka ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Kolgong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bongaon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sonthal Pergunnahs.	Rajmehal ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Godda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Pakour ...	...	0·11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nya Doomka ...	...	2·15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Deoghur ...	...	1·30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jamtara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mohagama ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nanihat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hazaribagh ...	...	...	...	...	...	...	...	0·02	...	...	...	...	...	...	...	...	...	...	...
		Semtagurah ...	...	0·05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Mahudi Hills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhoomrah Hills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barhi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chatra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Karagdeha ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ramghar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lohardugga ...	Lohardugga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ranchi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Palamow ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sills ...	...	0·35	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Balumat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hosenabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Garwah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Singbhoom ...	Chyebassa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chakradharpore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Ghatsila ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Baharagura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Manbhoom ...	Purulia ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gobindpore ...	...	0·21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Raghunathpore.	...	0·40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Barrabhoom ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhalda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

...r the month of November 1890—*concluded.*

23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January up to 30th November 1890.	Average rainfall from 1st January up to 30th November.	Station.	District.	Meteorological division.
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·10	Nil	52·71	45·28	Tajpore ...	Durbhunga ...	North Behar—*concld.*
...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·06	Nil	55·85	47·76	Durbhunga.		
...	...	...	...	...	...	...	...	Nil	0·2	Nil	0·03	Nil	55·10	47·78	Madhubani		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	53·35	?	*Bahera.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	52·17	?	*Roshera.*		
...	...	...	...	...	...	...	...	Nil	0·1	Nil	0·01	Nil	54·96	45·14	Sitamarhi ...	Mozufferpore	
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·08	Nil	56·89	45·91	Mozufferpore		
...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·14	Nil	59·60	45·10	Hajipore.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	72·01	?	*Para.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	46·43	?	*Mahua.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	55·38	?	*Sonhar.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	52·02	?	*Pupri.*		
...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·08	Nil	73·30	48·11	Motihari ...	Chumparun.	
...	...	...	...	...	...	...	...	Nil	0·1	Nil	0·01	Nil	65·82	51·04	Bettiah.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	...	?	*Bagaha.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	66·05	?	*Barhurwa.*		
...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·12	Nil	57·06	46·25	Gopalgunge...	Sarun.	
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·11	Nil	60·27	45·51	Sewan.		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·21	Nil	49·35	46·06	Chuprah.		
...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·14	Nil	63·22	39·19	Buxar ...	Shahabad ...	South Behar.
...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·22	Nil	43·54	41·03	Dehree.		
...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·50	Nil	41·56	42·73	Bhubooah.		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·24	Nil	46·35	42·07	Sasseram.		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·21	Nil	67·19	44·81	Arrah.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	36·39	?	*Mohaniah.*		
...	...	...	...	...	...	...	...	Nil	0·8	Nil	0·23	Nil	59·85	43·79	Aurungabad...	Gya.	
...	...	...	...	...	...	...	...	Nil	0·6	Nil	0·24	Nil	61·28	41·59	Gya.		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·18	Nil	55·12	42·07	Nowadah.		
...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·27	Nil	58·81	41·73	Jehanabad.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	56·34	?	*Arwal.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	29·85	?	*Daudnagar.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	36·81	?	*Sheerghati.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	45·62	?	*Rajauli.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	44·24	?	*Pakri Barawan.*		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·23	Nil	52·05	41·74	Patna ...	Patna.	
...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·14	Nil	53·50	42·32	Dinapore.		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·26	Nil	47·20	44·16	Behar.		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·26	Nil	44·68	42·5	Barrh.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	50·30	?	*Bekram.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	50·67	?	*Hilsa.*		
...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·31	Nil	46·02	42·37	Begoosserai ...	Monghyr.	
...	...	...	...	...	...	...	...	Nil	0·5	Nil	0·26	Nil	56·33	43·03	Monghyr.		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·09	Nil	60·32	45·07	Jamui.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	78·89	?	*Gopri.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	47·76	?	*Sheikpura.*		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·22	Nil	62·97	47·61	Bhagulpore ...	South Bhagulpore.	
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·15	Nil	45·73	45·04	Banka.		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	63·96	?	*Kolgong.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	...	?	*Bongaon.*		
...	...	...	...	...	...	...	...	Nil	0·4	Nil	0·23	Nil	58·76	55·63	Rajmehal ...	Sonthal Pergunnahs.	
...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·10	Nil	53·08	47·76	Godda.		
...	...	...	...	...	...	...	...	Nil	0·3	Nil	0·17	Nil	72·27	52·22	Pakour.		
...	...	...	...	...	...	...	...	1	0·4	Nil	0·11	Nil	75·96	57·36	Nya Doomka.		
...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·23	0·11	50·25	52·73	Deoghur.		
...	...	...	...	...	...	...	...	1	0·5	Nil	0·15	Nil	78·09	51·66	Jamtara.		
...	...	...	...	...	...	...	...	Nil	0·6	2·15	0·30	2·15	50·30	?	*Mohagama.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	·30	?	*Nanihat.*		
...	...	...	...	...	...	...	...	1	?	1·39	?	?	34·04	?			
...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·20	Nil	55·84	50·76	Pachamba ... (*Giridi*).	Hazaribagh ...	Chutia Nagpur.
...	...	...	...	...	...	...	...	1	1·2	0·02	0·02	0·02	50·58	49·57	Hazaribagh.		
...	...	...	...	...	...	...	...	1	1·2	0·05	0·39	0·05	40·29	40·00	Semtagurah.		
...	...	...	...	...	...	...	...	Nil	1·4	Nil	0·46	Nil	44·56	50·38	Mahudi Hills.		
...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·41	Nil	57·60	61·74	Jhoomrah Hills		
...	...	...	...	...	...	...	...	Nil	1·0	Nil	0·43	Nil	51·14	?	*Barhi.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	49·03	?	*Chatra.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	58·04	?	*Karagdeha.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	51·49	?	*Ramghar.*		
...	...	...	...	...	...	...	...	Nil	1·1	Nil	0·43	Nil	55·23	52·12	Lohardugga ...	Lohardugga.	
...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·29	Nil	47·09	49·95	Ranchi.		
...	...	...	...	...	...	...	...	Nil	0·7	Nil	0·43	Nil	45·32	46·45	Palamow.		
...	...	...	...	...	...	...	...	1	?	·35	?	Nil	44·25	?	*Sills.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	0·35		?	*Balumat.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Hosenabad.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	42·14	?	*Garwah.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	38·96	?			
...	...	...	...	...	...	...	...	Nil	1·5	Nil	0·24	Nil	36·22	54·63	Chyebassa ...	Singbhoom.	
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil		?	*Chakradharpore.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	56·50	?	*Ghatsila.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	55·99	?	*Baharagura.*		
...	...	...	...	...	...	...	...	Nil	1·2	Nil	0·18	Nil	46·07	50·57	Purulia ...	Manbhoom.	
...	...	...	...	...	...	...	...	1	0·6	0·21	0·12	Nil	39·88	47·16	Gobindpore.		
...	...	...	...	...	...	...	...	1	?	0·40		?	62·92	?	*Raghunathpore.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	45·65	?	*Barrabhoom.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	65·79	?	*Jhalda.*		
...	...	...	...	...	...	...	...	Nil	?	Nil	?	Nil	51·92	?	*Chas.*		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF NOVEMBER 1890.

THE normal features of the meteorology of Bengal during November are very simple. Northerly winds blow over the whole of Bengal, and these usually extend as a north-easterly wind current over the north and centre of the Bay. These northerly winds are dry, and usually give in Bengal almost cloudless skies; temperature also diminishes steadily during the month, the diminution being strongly marked in the night temperatures, and humidity is low. As a rule, little or no rain falls unless it is brought up by one or other of two kinds of disturbances, which almost reverse the normal weather conditions. The first class of disturbances consist of cyclonic storms which are formed in the middle or south of the Bay in front of the retreating south-west monsoon. When they form, as they do occasionally, they usually advance towards the Madras coast, and expend their main force over the south of the peninsula, but sometimes they advance towards the north of the Bay. In the first case, they generally modify the weather over the whole of the Bay; and if the disturbance is a large one, humid winds will again be forced over Bengal, when skies will cloud over and temperature and humidity rapidly increase, and rain may fall, particularly over the southern parts of the province. In the second case, if a large and influential storm which has formed in the Bay advances towards Bengal and should happen to strike the coast, the weather conditions in Bengal will naturally be entirely reversed. Over the area where the storm passes excessively heavy rain will fall, and if the storm be a large one, the whole of Bengal will feel its effects, and general rain may be brought up for a considerable period. The second class of disturbances consist of land-formed barometric depressions, which originate over Upper India and drift sometimes over Bengal, giving clouded skies, increased humidity and temperature, and sometimes light rain. These land-formed disturbances seldom occur in November; and if they do occur, they are generally of very little importance.

Except, therefore, for rainfall brought up by the occurrence of storms in the Bay, as a rule, the province is almost rainless in November. Its occurrence and distribution are therefore very capricious, and the normal rainfall of November in Bengal is extremely small. Orissa usually receives a fall of about an inch and-a-third, and East Bengal one of about an inch; but in the other districts the fall is only from about a tenth up to a third of an inch.

Meteorology of the month.—At the commencement of November weather conditions in the south of the Bay of Bengal were distinctly unsettled, though at no time did the disturbed conditions concentrate to form a definite storm. The disturbance was, however, sufficiently influential to affect the weather conditions over the southern half of Bengal, and cloudy weather with a decidedly moist atmosphere obtained, and occasional rain fell during the first week of November. In Orissa the fall was general, but in South-West, East and North Bengal and in Chutia Nagpur showers only were reported. Cool clear weather, on the other hand, obtained during this period over Behar and over the northern districts of Bengal. At the end of the first week, however, weather conditions began to improve with the disappearance of the unsettled weather in the Bay, and during the second week of November fine weather prevailed almost without interruption throughout the week. The general conditions during this time underwent very little change from day to day, and conditions were fairly normal, except that pressure was above the average, while temperature fell pretty steadily throughout the week. The north-east monsoon season may indeed be said to have thoroughly set in over the whole of Bengal from the end of the first week in November, and from this date up till the end of the month conditions were of the ordinary cold weather character, and the changes which have taken place from day to day have been of the usual oscillatory nature which characterizes fine settled weather. Barometric pressure has remained high, and the mean for the month is very distinctly above the normal. Temperature has generally fallen by small amounts up till the close of the month, and the mean temperature for the month has been slightly below the normal. Humidity after the first few days has been fairly low, though the mean humidity for the month has been distinctly in excess of the usual amount. The sky during this period has also been generally only lightly clouded; indeed, if anything, rather less clouded than usual, and at most stations the mean cloud proportion for the month has shown that the sky has only been clouded over to about one or two-tenths of the possible amount. During the last three weeks of November also rainfall has been entirely absent throughout the whole province, the last light showers which fell were reported from Orissa on the 10th and 11th of the month.

Pressure.—During the first week the average pressure was in excess of the normal by amounts which varied from 0·03 inch in Orissa, South-West Bengal, and Chutia Nagpur to about 0·07 inch at some of the more northern stations. In the second week pressure was again in excess by amounts varying from 0·02 inch over the greater part of the province to 0·05 inch in East Bengal. In the third week the excess pressure was rather more pronounced, and it varied from a twentieth of an inch in Behar and North Bengal to a tenth of an inch in the south of Orissa. In the last week of the month also the excess was perhaps even larger than in the third, and it varied usually from six to ten-hundredths of an inch. For the whole month, therefore, pressure has been in excess of the normal, the usual excess varying from about four to seven-hundredths of an inch; the excess being usually largest in

East Bengal, where it averaged 0·06 inch, though in Assam the excess was not quite so large as at the stations in East Bengal, for there it only has averaged 0·05 inch.

Temperature—Was very distinctly below the normal for the first three weeks of the month, though in the last week it was almost normal. For the whole month five out of the seven large meteorological divisions shew mean temperatures distinctly below the normal, the defects generally varying from about half to one degree; but, on the other hand, Chutia Nagpur and North Bengal shew mean temperatures of about a third to one degree above the normal. The mean temperature of the whole province for the month may be said to have been only 0·3° below the normal for the period. The general variation of the day and night temperatures from the normal during the month is, however, best seen in the following table, where the weekly variations of the average maximum, minimum, and mean temperatures from the normal are given at nine typical stations in different districts of the province. It will be seen that the variations both of the day and night temperatures have been considerable:—

Stations.	Week ending 7th November 1890.			Week ending 14th November 1890.			Week ending 21st November 1890.			Week ending 28th November 1890.		
	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maximum temperature of week from normal mean.	Variation of actual mean minimum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.
Cuttack	−1·1	+1·5	+0·2	+0·4	+1·1	+0·8	−0·6	−2·2	−1·4	−1·3	−2·1	−1·7
Calcutta	−0·8	−1·4	−1·0	−1·6	−1·5	−1·5	−1·3	−3·3	−2·2	−1·1	−1·8	−1·4
Dacca	−1·5	−3·2	−2·5	−2·6	−2·3	−2·5	−0·2	−0·4	−0·3	−0·7	−2·2	−1·4
Burdwan	−0·3	+0·2	−0·1	−1·0	−0·5	−0·6	−0·2	−1·0	−0·6	−0·3	+0·4	+0·1
Patna	−3·2	−0·2	−1·7	−2·0	−2·4	−2·2	−1·3	−2·2	−1·8	−0·9	+2·1	+1·7
Gya	−1·5	+1·3	−0·1	−1·4	−1·6	−1·5	−0·6	−1·0	−2·3	+1·1	+1·6	+1·3
Purneah	−3·1	+0·1	−1·5	−3·2	−1·2	−2·2	−1·8	+1·1	−0·4	−1·1	−0·3	−0·8
Hazaribagh	−1·3	+0·2	−0·6	−1·3	−1·9	−1·6	+1·5	−2·6	−0·5	+1·5	+0·3	+0·9
Darjeeling	−3·2	−2·5	2·9	−0·9	+1·6	+0·4	−0·9	+0·3	−0·3	+1·0	+1·9	+1·5

Rainfall—Was entirely confined to the first ten days of the month, and the only district receiving anything like a considerable fall was Orissa, the stations in which registered an average fall of 1·80 inches, which is slightly above the normal fall for the period. North Bengal received the next largest fall; but this district only averaged 0·22, which is again slightly in excess of the normal. In East Bengal there was an average fall of 0·17 inch only, which is about one-sixth of the usual amount, and in South-West Bengal the fall also averaged 0·17 inch, or about half the usual fall. The other districts received practically no rain at all.

The following table gives in a condensed form the rainfall information for each of the seven large meteorological districts of Bengal for the present year up to the close of November. The numbers there given, as in the case of the former months of the year, are the actual average-rainfalls in each month in each district, expressed as a percentage of the normal fall for the period, and the last column also gives the total rainfall up to the end of November expressed as a percentage of the normal amount:—

Meteorological Divisions.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	Actual rainfall of first eleven months of 1890 expressed as a percentage of the normal fall for the period.
Orissa ...	24	5	216	20	99	124	97	80	168	146	110	115
South-West Bengal	98	Nil	39	75	87	141	102	69	104	186	52	102
East Bengal ...	184	4	70	122	102	89	120	88	60	128	16	94
North Bengal ...	98	Nil	26	155	81	132	129	132	143	281	29	134
North Behar ...	38	2	25	40	95	140	174	134	97	101	Nil	128
South Behar ...	Nil	5	63	80	95	183	186	125	82	115	45	122
Chutia Nagpur ...	Nil	Nil	120	1	65	132	116	75	81	70	6	92

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of November 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	87·9	55·5	82·4	65·6	74·0	—0·7	1·50	1·36	+0·14	2·4	2·2	+0·2	63·27	52·60
South-West Bengal	86·3	54·1	81·9	62·9	72·4	—0·8	0·17	0·33	—0·16	0·5	0·9	—0·4	56·83	51·33
East Bengal	87·3	53·0	81·6	63·5	72·6	—1·0	0·17	1·07	—0·90	0·4	1·6	—1·2	71·42	73·66
North Bengal	85·6	54·2	80·9	61·1	71·0	+0·8	0·22	0·17	+0·05	0·4	0·5	—0·1	95 09	68·84
North Behar	83·2	50·9	80·3	59 5	69·9	—0·4	Nil	0·08	—0·08	0·0	0·3	—0·3	64·38	47·98
South Behar	84·4	51·1	81·1	58·1	69·6	—0·4	0·09	0·20	—0·11	0·1	0·5	—0·4	54·60	43·17
Chutia Nagpur	80·3*	49·5*	77·4*	56·1*	66·7*	+0·3*	0·02	0·34	—0·32	0·2	1·1	—0·9	46·00	48·28
Assam	86·7	50·2	80·2	60·1	70·2	—1·1								

* Chycbassa not included.

Meteorological Office, Bengal ;
The 9th December 1890.

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of November 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29·995		
The average pressure of November from 24 years' registers ...	29·970		
The highest pressure in the month	30·167	23rd	10
The lowest pressure in the month	29·865	2nd	16
The range of pressure	0·302		
	Hours.		
The total number of hours of bright sunshine during the month	254·1		
The maximum possible number of hours of sunshine ...	330·8		
	°		
The mean temperature of the month	71·4		
The average temperature of November from 24 years' registers	74·8		
The highest temperature in the month	82·7	4th and 9th.	
The lowest temperature in the month	57·4	16th.	
The range of temperature during the month	25·3		
The mean daily range of temperature	17·4		
The greatest range of temperature in one day	21·8	16th.	
	Per cent.		
The mean humidity of the month	78		
The average humidity of November from 24 years' registers ...	72		
	Inches.		
The mean vapour tension of the month	0·591		
The average vapour tension of November from 9 years' registers	0·616		
The mean cloud proportion of the month	1·78		
The average cloud proportion of November from 13 years' registers	2·64		
The total rainfall of the month	0·01		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	Nil		
The average fall of November from 48 years' registers ...	0·65		
The greatest fall in 24 hours	0·01	2nd.	
	Days.		
The number of rainy days in the month	1		
The average number of rainy days in November from 24 years' registers	2		
	°		
The mean maximum equilibrium temperature of solar radiation during the month	137·0		
The mean difference of sun and air temperatures	57·0		
The greatest sun temperature	144·0	1st.	
The greatest excess of sun over air temperature	62·6	7th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	55·9		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	6·9		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	9·3	30th.	
	Miles.		
The mean movement of the wind per day	28·0		
The greatest movement of the wind in one day	65·0	24th.	
The greatest movement of the wind in one hour	10·0	24th, noon to 1 P.M.	

The number of hours with winds from each of the 8 points—

N. 143, N.E. 66, E. 34, S.E. 10, S. 3, S.W. 8, W. 30, N.W. 62, Calm 364.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore ·003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 1·6 lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0·6 higher than the Kew standard thermometer which is the standard of reference at the present Observatory.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 8th December 1890.

Meteorological Report of the Province of Be

Meteorological Division.	District.	Representative station.	Station Observations.												
			Air Pressure.			Wind.		Temperature.							
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal of week.
Orissa.	Pooree	Pooree	30·033	30·046	—	NNW & N	219	81·6	30, 3, 5 Dec.	61·6	30—2 Dec.	81·2	62·7	72·0	—
		Gopalpore	30·042	30·064	+·019	NNW	261	81·2	1st ,,	60·9	30th Nov.	79·3	62·8	71·1	—0·4
		False Point	30·037	30·060	—·005	NNW	151	79·4	5th ,,	56·3	1st Dec.	78·7	57·8	68·3	—1·2
	Cuttack	Cuttack	29·993	30·078	+·013	Calm	27	84·3	5th ,,	58·8	30th Nov.	83·2	60·1	71·7	0
	Balasore	Balasore	30·023	30·085	+·071	Calm	62	80·3	1, 2, 4, 5th ,,	53·5	1st Dec.	79·9	57·1	68·5	+1·1
South-West Bengal.	South-West Midnapore, South 24-Pergunnahs	Saugor Island	30·038	30·065	+·002	NNE	192	77·7	30th Nov.	59·9	30th Nov.	77·1	60·7	68·9	—0·1
	Midnapore	Midnapore	29·919	30·078	—·062	N	86	82·3	4th Dec.	56·2	29—1st Dec.	80·7	56·9	68·8	+0·1
	24-Pergunnahs, Howrah, Hooghly	Calcutta	30·050	30·073	+·003	Calm	21	77·5	29, 4 ,,	55·8	2, 4th Dec.	77·3	56·9	67·1	—1
	Burdwan	Burdwan	29·983	30·089	+·007	N	31	80·3	30th Nov.	57·4	2nd ,,	79·3	58·8	69·1	—0·1
	Bankoora	Bankoora	29·740	30·006	— ·008	W	41	81·1	5th Dec.	55·9	29th Nov.	80·0	56·3	68·4	+0·1
	Beerbhoom, West Burdwan	Raneegunge	29·743	30·005	+·005	NNW	41	79·9	29, 30, 5th ,,	55·8	30th ,,	79·4	57·3	68·5	+0·1
	Moorshedabad	Berhampore	29·997	30·068	— ·012	Northerly	31	78·1	29 & 30th Nov.	57·2	4th Dec.	77·5	58·9	68·2	—0·1
	Nuddea	Krishnaghur	30·015	30·066	+·002	North-Westerly.	53	80·8	30th ,,	53·1	2nd ,,	80·0	54·6	67·3	—0·1
	Jessore, Khoolna	Jessore	30·035	30·070	+·010	Calm	10	79·7	29, & 30th ,,	56·0	30th Nov.	79·1	56·7	67·9	—2·1
East Bengal.	Chittagong	Chittagong	29·954	30·049	+·003	Northerly	38	82·2	29th ,,	55·9	4th Dec.	79·2	59·6	69·4	—1·1
	Chittagong Hill Tracts	Damagiri	Observations not received.												
	Backergunge	Barrisal	30·032	30·045	+·011	Calm	36	78·8	29 & 30th Nov.	55·6	2nd Dec.	77·7	50·7	67·2	—2·1
	Noakholly	Noakholly	30·024	30·070	+·032	Northerly	?	81·0	29 & 30th ,,	53·0	2nd ,,	78·9	54·8	66·8	—2·1
	Furreedpore	Furreedpore	30·026	30·069	+·026	Calm	25	74·0	1, 2, 4th Dec.	55·5	30th Nov.	73·7	56·6	65·2	—2·1
	Dacca	Dacca	30·023	30·047	—·001	Northerly	58	81·6	29th Nov.	56·8	2nd Dec.	79·0	57·8	68·4	—1·1
	Commillah	Commillah	29·856*	29·867*	+·018*	NNE	11	81·9	30th ,,	53·0	30, 2, 3 ,,	79·4	54·9	66·6	—1·1
	Mymensingh	Mymensingh	30·001	30·062	+·016	ENE	31	78·9	29th ,,	54·6	30th Nov.	76·9	55·8	66·4	—
North Bengal.	Bogra	Bogra	29·976	30·043	+·015	NE	24	78·3	29th ,,	55·1	1—3 Dec.	76·5	55·9	66·2	—
	Pubna	Serajgunge	30·009	30·058	+ ·004	N	14	77·6	30th ,,	53·8	1st ,,	76·8	55·1	66·0	—
	Rajshahye	Rampore Beauleah	29·986	30·059	+·005	NNE	52	77·0	30th ,,	56·7	2nd ,,	76·7	57·5	67·1	+
	Maldah	Maldah	29·984	30·069	—	Northerly	75	79·0	4th Dec.	55·3	1st ,,	77·7	56·6	67·2	—
	Dinagepore	Dinagepore	29·936	30·063	—·016	Northerly	?	79·1	29th Nov.	53·7	1st ,,	77·5	55·1	66·3	+
	Rungpore	Rungpore	29·926	30·057	—·024	NE	49	78·3	29th ,,	51·9	1st ,,	76·9	55·1	65·9	—
	Julpigoree, Cooch Behar	Julpigoree	29·773	30·077	—·004	?	?	78·0	29th ,,	54·5	20th Nov.	75·7	56·3	66·0	+
	Darjeeling Hill Tracts	Darjeeling	23·032	—	—·018	Variable	49	58·4	29th ,,	40·1	3rd Dec.	50·2	38·7	44·5	—
North Behar.	Purneah, North Bhagulpore	Purneah	29·935	30·070	—·010	Calm	26	78·2	29th ,,	53·0	30th Nov.	76·7	54·6	65·7	
	Mozufferpore	Mozufferpore	29·873	30·064	—	WSW	106?	77·8	29th ,,	53·2	3rd Dec.	76·8	55·9	66·4	—
	Durbhunga	Durbhunga	29·898	30·075	—·028	Calm	32	79·4	29th ,,	56·5	29th Nov.	77·7	57·8	67·8	+
	Chumparun	Motihari	29·847	30·087	+·005	Variable	76	78·7	29th ,,	50·9	29th ,,	77·2	53·6	65·4	+
	Sarun	Chupra	29·864	30·070	—·029	Calm	20	79·3	4th Dec.	56·5	1 & 3 Dec.	77·5	58·5	67·9	+
South Behar.	Shahabad	Dehree	29·703	30·085	—·023	SW	34	81·3	4th ,,	53·0	30th Nov.	79·5	56·3	67·9	+
		Buxar	?	?	?	S-Wly.	50	79·9	4th ,,	53·9	29th ,,	78·6	56·6	67·6	+
		Arrah	29·858	30·061	—·021	WNW	5	80·1	4th ,,	53·7	30th ,,	78·4	55·4	66·9	+2·7
	Gya	Gya	29·896	30·098	—·018	S	129	80·4	4th ,,	54·8	29 & 30 ,,	79·2*	56·0	67·6*	+2·2*
	Patna	Bankipore	29·880	30·060	— ·037	SW	35	77·8	29, 4 ,,	55·4	29th ,,	77·1	56·9	67·0	+1·8
	South Bhagulpore, Monghyr	Bhagulpore	29·899	30·069	— ·014	Calm	2	78·3	29th Nov.	53·5	30th ,,	77·1	55·0	66·1	+1·7
Chutia Nagpur.	Sonthal Pergunnah	Doomka	29·553	30·082	—·006	Calm	37	78·8	30th ,,	53·0	30th ,,	77·7	54·3	66·0	+0·7
	Hazaribagh	Hazaribagh	28·003	30·096	—·027	Variable	103	77·9	30th ,,	52·8	29th ,,	75·7	54·5	65·1	+2·8
	Lohardugga, Manbhoom	Ranchee	27·878	30·082	—·013	Calm	65	79·0	30th ,,	50·5	3rd Dec.	76·6	53·2	64·4	+3·1
	Singbhoom	Chyebassa	29·360	30·100	+·021	E	20	81·5	5th Dec.	53·0	30th Nov.	80·9*	54·5*	67·7*	+1·7*

* Mean of six days.

Remarks.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the la
The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numb
are the normal means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the p
stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

ıe week ending Friday, the 5th of December 1890.

Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Of week. Mean for district.	Of week. Normal mean.	District observations. Rainfall. Since 1st of November. Mean for district.	Since 1st of November. Normal mean.	Since 1st of November. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
3·3	Nil	Nil	0·39	1·82	2·52	−0·70	65·77	54·85	+10·92	0·0	0·4	Pooree ...	Pooree	Orissa.
0·7	Nil											Gopalpore ...		
												False Point ...		
3·4	Nil													
3·6	Nil	Nil	0·19	1·07	1·28	+0·69	63·64	51·08	+12·56	0·0	0·3	Cuttack ...	Cuttack	
0	Nil	Nil	0·10	0·87	0·97	−0·10	61·26	52·71	+8·55	0·0	0·2	Balasore ...	Balasore	
5·9	Nil	Nil	0·16	0·64	0·76	−0·12	66·29	61·76	+4·53	0·0	0·2	Saugor Island ..	South-West Midnapore	South-West Bengal.
													South 24-Parganuahs	
1·7	Nil	Nil	0·11	Nil	0·31	−0·31	50·00	50·92	−0·92	0·0	0·2	Midnapore ..	Midnapore	
1·7	Nil	Nil	0·13	0·07	0·44	−0·37	55·16	51·00	+4·16	0·0	0·2	Calcutta ...	24-Parganuahs	
													Howrah	
													Hooghly	
2·3	Nil	Nil	0·09	0·25	0·40	−0·15	61·41	46·22	+15·19	0·0	0·2	Burdwan ...	Burdwan	
2·6	Nil	Nil	0·13	0·01	0·59	−0·58	52·02	52·05	−0·04	0·0	0·2	Bankoora ...	Bankoora	
2·1	Nil	Nil	0·09	0·35	0·23	+0·12	63·93	51·68	+12·25	0·0	0·2	Raneegunge ...	Beerbhoom	
													West Burdwan ...	
3·0	Nil	Nil	0·07	0·33	0·31	+0·01	60·55	49·96	+10·59	0·0	0·2	Berhampore ..	Moorshedabad .	South-West Bengal.
3·1	Nil	Nil	0·08	0·04	0·41	−0·37	55·03	48·71	+6·32	0·0	0·2	Krishnaghur ...	Nuddea	
2·0	Nil	Nil	0·18	0·06	0·56	−0·50	53·53	52·78	+0·75	0·0	0·3	Jessore ...	Jessore	
													Khoolna	
3·1	Nil	Nil	0·26	1·37	2·41	−1·04	119·03	112·81	+6·25	0·0	0·4	Chittagong ...	Chittagong	East Bengal.
		Nil	0·19	0·42	2·19	−1·77	73·32	70·93	−6·61	0·0	0·3	Demagiri ...	Chittagong Hill Tracts	
0·4	Nil	Nil	0·26	Nil	1·68	−1·68	68·16	76·03	−7·87	0·0	0·3	Barrisal ...	Backergunge	
0	Nil	Nil	0·35	Nil	2·90	−2·90	97·88	106·06	−8·18	0·0	0·4	Noakholly ...	Noakholly	
0·6	Nil	Nil	0·09	Nil	0·61	−0·61	45·42	54·95	−9·53	0·0	0·2	Furreedpore ...	Furreedpore	
3·6	Nil	Nil	0·13	Nil	0·89	−0·89	58·19	59·93	−1·77	0·0	0·2	Dacca ...	Dacca	
1·4	Nil	Nil	0·20	Nil	0·92	−0·92	60·11	67·87	−7·76	0·0	0·2	Commillah ...	Tipperah	
2·7	Nil	Nil	0·06	0·17	0·36	−0·19	75·85	68·46	+7·39	0·0	0·1	Mymensingh ...	Mymensingh	
0	Nil	Nil	0·08	0·41	0·42	−0·01	78·99	56·98	+22·01	0·0	0·1	Bogra ...	Bogra	North Bengal.
2·6	Nil	Nil	0·06	0·57	0·33	+0·24	54·95	52·86	+2·09	0·0	0·1	Serajgunge ...	Pubna	
1·7	Nil	Nil	0·09	0·93	0·28	+0·65	75·86	52·90	+22·96	0·0	0·2	Rampore Beauleah	Rajshahye	
0·6	Nil	Nil	0·06	0·02	0·25	−0·25	62·14	53·65	+8·49	0·0	0·1	Maldah ...	Maldah	
0·3	Nil	Nil	0·09	Nil	0·19	−0·19	81·74	56·34	+25·40	0·0	0·2	Dinagepore ...	Dinagepore	
1·1	Nil	Nil	0·02	Nil	0·11	−0·11	106·01	73·20	+33·41	0·0	0·1	Rungpore ...	Rungpore	
0·4	Nil	Nil	0·01	Nil	0·07	−0·07	154·51	109·60	+44·91	0·0	0·1	Julpigoree ...	Julpigoree	
													Cooch Behar	
4·3	Nil	0·04	0·01	0·11	0·32	−0·21	165·69	119·89	+45·80	0·5	0·1	Darjeeling ...	Darjeeling Hill Tracts	
0·7	Nil	Nil	Nil	Nil	0·06	−0·06	80·67	58·05	+22·62	0·0	0·0	Purneah ...	Purneah	North Bhagulpore.
													North Bhagulpore ...	
1·1	Nil	Nil	Nil	Nil	0·09	−0·09	52·57	42·76	+9·81	0·0	0·0	Mozufferpore ...	Mozufferpore	North Behar.
0·6	Nil	Nil	Nil	Nil	0·06	−0·06	57·03	43·96	+13·07	0·0	0·0	Durbhunga ...	Durbhunga	
3·4	Nil	Nil	Nil	Nil	0·01	−0·01	68·47	45·90	+22·57	0·0	0·0	Motihari ...	Chumparun	
1·0	Nil	Nil	Nil	Nil	0·19	−0·19	53·60	41·86	+11·74	0·0	0·0	Chupra ...	Sarun	
2·0	Nil											Dehree ...		
2·6	Nil	Nil	Nil	Nil	0·26	−0·26	49·59	39·32	+10·27	0·0	0·0	Buxar ...	Shahabad	South Behar.
1·1	Nil											Arrah ...		
1·4	Nil	Nil	Nil	Nil	0·24	−0·24	56·93	40·81	+16·12	0·0	0·0	Gya ...	Gya	
1·7	Nil	Nil	Nil	Nil	0·20	−0·20	48·10	40·61	+7·49	0·0	0·0	Bankipore ...	Patna	
1·1	Nil	Nil	0·01	Nil	0·21	−0·21	52·25	42·55	+9·70	0·0	0·1	Bhagulpore ...	South Bhagulpore ...	
													Monghyr	
0·7	Nil	Nil	0·06	0·38	0·22	+0·16	63·65	50·32	+13·33	0·0	0·1	Doomka ...	Sonthal Pergunnahs...	Chutia Nagpur.
1·4	Nil	Nil	0·02	0·01	0·38	−0·37	49·45	49·22	+0·23	0·0	0·1	Hazaribagh ...	Hazaribagh	
2·0	Nil	Nil	0·03	Nil	0·47	−0·47	47·01	47·42	−0·41	0·0	0·1	Ranchi ...	Lohardugga	
			Nil	0·07	0·10	0·24	−0·14	41·53	46·28	−4·75	0·0	0·1	Manbhoom	
1·7			Nil	0·09	Nil	0·32	−0·32	33·94	50·56	−16·62	0·0	0·2	Chyebassa ...	Singbhoom	

years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
noting cloud-amounts represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
years. The means of the district are the numerical average of the rainfall return received in the districts, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of December 189

Meteorological division.	District.	Station.	Rainfall. Saturday, 29th November.	Sunday, 30th November.	Monday, 1st December.	Tuesday, 2nd December.	Wednesday, 3rd December.	Thursday, 4th December.	Friday, 5th December.	Total number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of November.	Average total rainfall from 1st of November.	Total rainfall since 18th May 1890.	A... fro... M...
Orissa ...	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·28	2·49	69·97	
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·23	1·70	65·16	
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·10	3·20	61·85	
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	3·69	2·63	66·10	
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·92	?	65·90	
		Satpara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	4·94	?	45·07	
		Pipli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·29	?	75·90	
	Cuttack ...	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·80	1·26	63·67	
		Banki ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	5·25	2·16	66·09	
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·94	1·17	83·14	
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·58	1·07	53·15	
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·46	0·76	53·15	
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	:	53·18	
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·70	?	52·15	
	Balasore ...	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·51	1·01	52·06	
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·68	1·02	57·85	
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	0·72	60·84	
		Balasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·25	1·04	64·13	
		Jellasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·21	0·40	65·83	
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·61	0·98	62·91	
South-West Bengal.	Midnapore ...	Contai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·45	0·82	67·73	
		Saugor Island ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·44	1·00	69·05	
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	57·90	
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	47·47	
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	44·61	
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·20	
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·23	
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	0·48	62·13	
		Canning Town ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·69	
		Alipore Jail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·36	61·96	
		Barrackpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·60	50·01	
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·59	0·35	56·44	
		Baraset ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	54·84	
		Buseerhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	58·67	
	Howrah ...	Howrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	51·34	
		Mohesreka ... (*Ooloberiah*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·62	50·57	
	Hooghly ...	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·33	54·30	
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	52·05	
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	51·57	
	Burdwan ...	Culna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·55	54·31	
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·50	0·36	65·53	
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	64·36	
		Raneegunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·10	0·23	60·54	
		Mankur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·41	?	48·21	
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	57·70	
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·48	50·95	
		Maliara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·45	59·28	
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·13	40·96	
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·97	
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·94	
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·11	
		Gangajalghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·75	
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·29	
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·74	
	Beerbhoom ...	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·33	0·16	62·28	
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·76	0·19	60·31	
		Rampore Haut ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·30	0·30	72·56	
		Rolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·19	?	57·42	
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·46	
	Nuddea ...	Ranaghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	55·46	
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·35	61·66	
		Choosdanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·55	47·08	
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	58·86	
		Kooshtea ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	52·09	
	Khoolna ...	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·48	0·70	57·61	
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·80	62·51	
		Khoolna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·68	52·88	
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·99	?	76·02	
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·78	
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·59	51·45	
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47	59·49	
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	54·16	
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	48·44	
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	46·66	
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	0·43	64·89	
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·31	59·27	
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	63·67	
		Asimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	58·27	
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·50	0·17	51·83	
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·65	0·28	65·35	
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·99	
		Akriguuj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....						
East Bengal	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·37	2·89	129·42	
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·37	1·91	108·69	
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	2·25	?	113·85	
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·15	?	81·41	
	Chittagong Hill Tracts.	Rangmati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	2·19	68·92	
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	2·16	77·71	
	Backergunge	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·00	79·01	
		Perozepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·33	62·91	
		Burrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·52	65·76	
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·87	64·99	

ment of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of December 1890—contd.

...ional ...ion.	District.	Station.	Rainfall. Saturday, 29th November.	Sunday, 30th November.	Monday, 1st December.	Tuesday, 2nd December.	Wednesday, 3rd December.	Thursday, 4th December.	Friday, 5th December.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of November.	Average total rainfall from 1st of November.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
...ENGAL ...ld.		*Gournadds* ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·66	?
		Bauphal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73·26	?
	Noakholly ...	Noakholly ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	2·12	92·34	106·85
		Fenny ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	3·07	103·40	103·14
		Hartikpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·90	?	160·51	?
		Ramganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·28	?
	Furreedpore	Maderipore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·61	41·91	55·24
		Furreedpore..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·47	49·43	57·34
		Goalundo ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·41	44·90	52·47
	Dacca ...	Muxhigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·05	57·76	69·45
		Dacca ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·59	54·58	58·07
		Narainsunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	,,	1·48	60·71	61·44
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	59·71	49·45
		Joydebpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·20	?
	Hill Tipperah.	Agartola ...	.....										1·00		60·79
	Tipperah ...	Comilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·20	67·24	75·18
		Chandpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·79	56·78	74·51
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·70	54·64	61·08
		Ramchandra-pore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·11	?
		Nasirnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	84·81	?
		Daudkandi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	80·44	?
		Kasba ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·71	?
		Laksham ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·55	?
	Mymensingh..	Kishoregunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	68·87	69·22
		Atia (*Tangail*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·81	0·30	56·62	54·93
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·35	78·05	73·45
		Jamalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	79·16	64·59
		Netrekona ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·43	90·54	80·43
		Subornakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·42	?	58·25	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·07	?
		Sherepore Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·41	?
		Dewanganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·90	?
...RTH ...NGAL.	Pubna ...	Pubna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	46·08	53·43
		Serajgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·14	0·42	63·81	52·23
	Bogra ..	Sherepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·50	0·05	77·86	57·86
		Nowkhilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·37	0·57	66·70	53·83
		Bogra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	0·33	70·92	60·49
		Panchbibi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	91·46	55·39
	Rajshahye ...	Beaulesh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·95	0·21	72·29	52·46
		Nattore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·55	0·34	88·84	54·27
		Naogaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·39	0·31	66·15	52·13
		Laipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·38	?
		Manda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·04	?
	Maldah ...	Maldah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·28	64·05	51·10
		Chanchal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	59·02	56·13
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	84·40	?
		Sibganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·12	?	62·86	?
	Dinagepore ...	Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	67·94	56·05
		Churamon ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	80·28	52·14
		Raigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	92·75	57·63
		Dinagepore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	86·80	63·56
		Baloorghat ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	81·01	53·34
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	107·04	?
	Rungpore ...	Burwanigunge (*Gyabanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	123·00	62·14
		Rungpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	96·56	74·08
		Kurigram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	95·59	73·66
		Bagdogra (*Nilphamari*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	111·28	83·88
		Ulipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	97·52	?
	Julpigoree ...	Julpigoree ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	156·26	116·73
		Alipore Duar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	187·47	?
		Falliacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	146·30	?
		Debiganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	115·70	?
		Bhagalpore (*Nagrakatta*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	182·64	?
		Dinhatta ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	128·95	94·47
	Cooch Behar..	Cooch Behar..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	169·37	117·99
		Mickligunge..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	146·35	104·02
		Mazabhanga...	.....	.....	.....	.....	.....	.....	0·08	1	0·08	0·30	0·07	171·61	111·83
	Darjeeling Hill.	Buxa ..	.....	.....	.....	.....	.....	.....	.....	1	0·08	0·30	0·52	210·94	191·24
		Silliguri ..	.....	.....	.....	.....	.....	0·08	.....	1	0·08	0·08	0·32	178·39	102·31
		Darjeeling ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	0·20	150·24	107·30
		Kalimpong ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	123·00	77·20
		Kurseong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	192·78	?
...RTH BEHAR	Purneah ...	Kissengunge...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	105·38	69·68
		Arrareah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	83·78	65·16
		Purneah ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	89·56	61·00
		Gondwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Baleramporo	...	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	100·45	?
		Mauari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·99	?
		Kaliaganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·55	?
	North Bhagul-por	Maddapore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	61·61	49·03
		Sripool ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	63·21	47·68
		Protabganj ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·50	?
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	61·70	43·43
		Duronnuga ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	58·56	45·15
		Madhubani ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	68·61	44·23
		Hahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·58	?
		Rosiere ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·43	?
	Mozufferpore	Sitamarhi ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	52·96	42·86
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	56·18	44·76
		Hajipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	48·60	41·28
		Para ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·81	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·79	?
		Bisahar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·18	?
		Puppri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·19	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of December 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 29th November.	Sunday, 30th November.	Monday, 1st December.	Tuesday, 2nd December.	Wednesday, 3rd December.	Thursday, 4th December.	Friday, 5th December.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of November.	Average total rainfall from 1st of November.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —concluded.	Chumparun...	Motihari ...	.....	... .	.....	... ..	.....	.....	.....	Nil	Nil	Nil	0·02	72·06	44·0
		Bettiah ...	.. ..	.. . .	... ..	.....	.....	... ..	... ..	Nil	Nil	Nil	0·01	64·89	47·8
		Bagaha ...	. ....	.....	... .	.....	.....	.....	... ..	Nil	Nil	Nil	?		?
		Burhurwa ...	.....	. . ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·30	?
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·14	52·67	42·4
		Sewan ..	.....	.....	... ..	.....	... ..	.....	.....	Nil	Nil	Nil	0·12	59·84	48·1
		Chuprah ...	.....	. ....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	48·27	39·9
South Behar	Shahabad	Buxar .	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	52·47	41·5
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	48·14	39·3
		Bhaboouh ...	.....	.....	.....	.....	.....	...	... ..	Nil	Nil	Nil	0·52	41·11	40·3
		Sasseram ...	... ..	.....	.....	.....	... .	.....	... ..	Nil	Nil	Nil	0·24	44·19	39·5
		Arrah ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0·17	66·96	39·4
		Mohaniah ...	.....	.....	... ..	.....	.....	.....	.....	Nil	Nil	Nil	?	36·07	?
	Gya ..	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	59·49	41·9
		Gya ...	.....	. . .	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	60·04	41·8
		Nowadah ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	54·84	39·1
		Jehanabad ...	... ..	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	0·28	53·35	40·2
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·43	
		Daudnagar...	... ..	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	29·85	?
		Sherrghati ...	.....	... ..	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	36·81	?
		Kajauli ...	.....	.....	.....	.....	... .	.....	.....	Nil	Nil	Nil	?	45·60	?
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·24	?
	Patna ...	Patna ...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0·15	50·02	41·1
		Dinapore ..	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·13	53·13	40·7
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	46·95	41·
		Barrh ...	.....	.....	... ..	.....	... ..	.....	.. ...	Nil	Nil	Nil	0·24	43·25	39·
		Bakram ...	.....	.... .	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	
		Hilsa ...	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	.	50·24	.
	Monghyr ...	Begoosserai ...	.....	.....	.....	.....	.....	.....	.....			Nil	0·32	44·29	39·1
		Monghyr ...	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0 13	54·84	45·1
		Jamui ...	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·10	60·22	42·
		Gogri ...	.....	.....	.....	.....	. ...	.....	.....	Nil	Nil	Nil	?	76·44	
		Sheikpura ...	.....	... ..	.....	.....	... ..	.....	.....	Nil	Nil	Nil	?	47·76	
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 82	59·77	41·
		Banka ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	42·11	43·
		Kelgong ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·06	
		Bongaon ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil		?		
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	... .	.....	Nil	Nil	Nil	0·16	56·86	51·
		Godda ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	50·75	45·
		Pakour ...	.....	.....	.....	.....	... ..	... ..	.....	Nil	Nil	Nil	0·14	74·16	54·
		Nya Doomka ...	.....	.....	.....	... ..	.....	... ..	.....	Nil	Nil	0 11	0·25	74 22	54·
		Deoghur ..	.....	.....	.....	... ..	.....	....	.....	Nil	Nil	Nil	0·17	49·43	42·
		Jamtara ...	.....	.... .	... ..	.....	.....	.....	.....	Nil	Nil	2·15	0·39	70·43	47·
		Mohasama ...	.....	.....	.....	.. ..	.....	.....	.....	Nil	Nil	Nil	?	48 81	
		Namchat ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	1·30	?	32·28	
Chutta Nagpur.	Hazaribagh ...	Pachamba .. (*Giridi*).	.....	.....	.....	.....	.....	.. ...	.....	Nil	Nil	Nil	0·24	55·35	46·
		Hazaribagh ...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	0·02	0·29	49·97	49·
		Semtagurah	.....	.....	... ..	.....	... ..	... ..	.....	Nil	Nil	0·05	0·42	38·94	45·
		Mahudi Hills	.....	.....	.....	.....	.. ..	.. ...	... ..	Nil	Nil	Nil	0·48	43·02	48·
		Jhoomra Hills	.....	.....	.....	.....	.....	... ...	.....	Nil	Nil	Nil	0·48	56 80	59·
		Barki ...	... ..	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	?	50·24	
		Chatra ...	.....	.....	.....	. ....	.....	.....	... ..	Nil	Nil	Nil	?	47·08	
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·34	
		Ramghar ...	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	
	Lohardugga ...	Lohardugga...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0·50	53·19	49·
		Ranchi ...	. ..	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	43·57	51·
		Palamow .	... ..	.....	.... .	.....	.....	.....	.....	Nil	Nil	Nil	0·48	44·27	42·
		Silli ...	... ..	.....	.....	... ..	.....	... ..	.....	Nil	Nil	0·35	?	43·35	
		Balumat ...	.....	.....	.....	.. ...	.....	.....	.....	Nil	Nil	Nil	?	45·02	
		Hossenabad	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75	
		Garwah ...	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·30	
	Singbhoom .	Chyebassa ...	... .	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	33·94	50·
		Chakradharpore.	. . ..	.....	.....	.. ..	.....	.....	.....	Nil	Nil	Nil	?	24·84	
		Ghatsilla ...	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	Nil	?	51·46	
		Baharagora	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·93	
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0·28	44·22	48·
		Gobindpore ..	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	0·21	0·19	38·84	44·
		Raghunathpore.	....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	?	62·26	
		Barrabhoom	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	?	44·15	
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64·71	
		Chas ...	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·18	

Explanation.—..... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 9th December* 1890

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 5TH OF DECEMBER 1890.

THE meteorological changes during the week have again been of very slight importance. On November 29th, or the first day of the week, pressure was decidedly high, and was about 0·05 inch to 0·07 inch in excess of the normal. A fairly steady northerly wind current was blowing over the whole province except at a few stations in the west of Behar, where winds were southerly. Temperature was generally from one to two degrees below the normal except again at many of the stations in Behar, where excess temperature was registered. The sky was also practically clear, and no rain had fallen since the early part of the month. On the 30th November a somewhat rapid fall of the barometer took place which brought pressure almost to the normal amount This was accompanied by a moderately large fall of temperature in North Bengal and a much smaller fall in all other districts except Chutia Nagpur, and on this day winds were northerly at almost all stations in the province. Humidity and cloud proportion remained to a great extent unchanged. A further and rather more rapid fall of pressure again took place on December 1st, the fall at many stations equalling seven and eight-hundredths of an inch, and thus pressure became for the first time for a considerable period rather largely below the normal. Temperature also fell slightly on the 1st at all stations except those in Behar and Chutia Nagpur, and while the stations in the west of the province showed a temperature considerably in excess of the normal, at the eastern stations there was a very decided defect. On the 2nd pressure had commenced to rise by from two to four-hundredths of an inch, while temperature was generally rising by small amounts; these changes continued, but by rather variable amounts, on the 3rd and on the 4th, though on the 5th pressure and temperature began to fall rapidly, and by the end of the week pressure was from about 0·02 inch to 0·04 inch in defect of the normal in all districts except over part of Behar, where defect was larger than this. Temperature also on the 4th was decidedly in excess of the normal in all districts except South and South-East Bengal, where a defect was registered. The excess on the 5th was large at many of the Behar and Chutia Nagpur stations, and at Chupra, Buxar, Arrah, Dehree, and Ranchee the excess varied from 5° to 7°. Towards the end of the week also the northerly wind current had rapidly decreased in force, and on the 4th westerly and in some cases south-westerly winds were reported in Behar, Chutia Nagpur, and even over large parts of Central and part of East Bengal. Cloud proportion also commenced to increase rather rapidly at a considerable number of stations, though no rainfall of any kind was reported, except slight showers of no practical importance, from one or two stations in the Darjeeling Hills district. The changes therefore during the present week have been decidedly more marked than they were in the week ending November 28th, but still conditions have on the whole been very settled and weather has been fine.

Pressure.—The mean pressure for the week has not been very far removed from the normal, the variations being as a rule not larger than one or two-hundredths of an inch. At most of the stations in Orissa, South-West Bengal and East Bengal, pressure has been in excess, but in the other districts it has generally been in defect.

Temperature.—The mean temperature for the week has been nearly normal in Orissa, South-West and North Bengal, but it has been 2·2° below it in East Bengal. In Behar and Chutia Nagpur, on the other hand, temperature has been in excess of the normal by from 2° to 3°.

The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with their normal values for the same period. The variations, it will be seen, have been considerable both in the day and night temperatures, though the night temperatures of these nine stations on the whole are below the normal, while the day temperature, are considerably above it :—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 5th of December 1890.

	Normal mean maximum temperature for the week ending 5th December 1890.	Actual mean maximum temperature for the week ending 5th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 5th December 1890.	Actual mean minimum temperature for the week ending 5th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 5th December 1890.	Actual mean daily temperature for the week ending 5th December 1890.	Variation of actual mean from the normal.
Cuttack	83·3	83·2	—0·1	60·0	60·1	+0·1	71·7	71·7	0
Calcutta	78·2	77·3	—0·9	59·4	56·9	—2·5	68·8	67·1	—1·7
Dacca	81·5	79·0	—2·5	60·2	57·8	—2·4	70·9	68·4	—2·5
Burdwan	79·9	79·3	—0·6	58·4	58·8	+0·4	69·2	69·1	—0·1
Patna	76·9	77·1	+0·2	53·5	56·9	+3·4	65·2	67·0	+1·8
Gya	77·8	79·2	+1·4	52·6	56·0	+3·4	65·2	67·6	+2·4
Purneah	78·6	76·7	—1·9	52·7	54·6	+1·9	65·7	65·7	0
Hazaribagh	72·9	75·7	+2·8	52·3	54·5	+2·2	62·6	65·1	+2·5
Darjeeling	51·7	50·2	—1·5	38·3	38·7	+0·4	45·0	44·5	—0·5

Rainfall.—With the exception of a few drops of rain at Siliguri and Buxa in the Darjeeling Hills district, the whole province has been rainless throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 5th of December 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of November.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	84·3	55·5	80·5	60·1	70·3	—0·2	Nil	0·21	—0·21	0·0	0·3	—0·3	1·50	1·49	63·27	52·75
South-West Bengal ...	82·3	53·1	78·9	57·5	68·2	—0·4	Nil	0·06	—0·06	0·0	0·1	—0·1	0·17	0·39	56·83	51·29
East Bengal	82·2	56·0	77·8	56·5	67·2	—2·2	Nil	0·17	—0·17	0·0	0·2	—0·2	0·17	1·24	71·43	73·23
North Bengal	79·1	51·9	76·8	55·9	66·4	—0·3	Nil	0·06	—0·06	0·0	0·1	—0·1	0·22	0·22	65·00	66·89
North Behar	79·4	50·9	77·1	56·1	66·6	+1·7	Nil	Nil	Nil	0·0	0 0	0	Nil	0·08	64·38	47·98
South Behar	81·3	53·0	78·2	55·8	67·0	+2·3	Nil	0·02	—0·02	0·0	0·1	—0·1	0·00	0·23	54·66	43·20
Chutia Nagpur	79·0*	50·5*	76·2*	53·4	64·8*	+2·9*	Nil	0·04	—0·04	0·0	0·1	—0·1	0·02	0·38	46·00	48·39

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 9th December 1890.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 30th November to 6th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Nov.	30th	131·5	9·5	29·998	67·0	77·3	19·7	57·6	62·5	0·507	59·3	78	NNE and calm ..	23	Nil	Clear, ≏, ...
Dec.	1st	131·3	9·2	·935	66·2	77·4	21·1	56·3	61·9	·501	59·0	75	N by E and calm ...	21	,,	Chiefly clear, ≏, —.
,,	2nd	128·5	7·9	965	66·5	77·5	21·7	55·8	62·1	·502	59·1	79	N by E and calm ...	12	,,	Chiefly clear, ≏, =.
,,	3rd	131·5	9·2	30·014	66·6	77·3	20·8	56·5	62·3	·509	59·4	79	WNW and calm ...	12	,,	Clear, ≏, ..
,,	4th	129·5	6·3	·021	66·3	76·5	20·5	56·0	61·9	·499	58·9	79	NW and calm ...	11	,,	Partially cloudy, ≏, —.
,,	5th	131·8	6·8	29·973	67·2	78·5	20·9	57·6	62·6	·511	59·6	78	WNW, calm and variable.	22	,,	Partially cloudy, ≏, =.
,,	6th	132·5	8·7	·939	67·3	79·2	22·2	57·0	61·8	·481	57·8	75	W and calm ...	25	,,	Chiefly clear, ≏, —.

	Inches.
The mean pressure of the seven days	29·978
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	30·014
	Hours.
The total number of hours of bright sunshine	57·6
The maximum possible number of hours of sunshine	75·6
	°
The mean temperature of the seven days	66·7
The average temperature of the corresponding period for 24 years, S.-G.'s Office	70·3
The extreme variation of temperature	23·4
The maximum temperature	79·2
	Miles.
The highest velocity of the wind in one hour	6
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	78
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	71
	Inches.
The total fall of rain from 30th November to 6th December 1890 ...	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·04
The total fall from 1st January to 6th December 1890	61·25
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	65·19

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

≏, dew; ≡, fog.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 8th December 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of November 1890.

	Inches.	Date.
	°	
The mean pressure at 10 A.M. during the month	30·065	
The mean temperature at 10 A.M. during the month	76·6	
The highest temperature during the month	84·9	4th.
The lowest temperature during the month	57·9	28th, 29th, & 30th.
The absolute range of temperature during the month	27·0	
The mean daily range of temperature during the month ...	17·8	
The greatest range of temperature in one day during the month ...	22·0	16th.
	%	
The mean 10 A.M. humidity during the month	63	
	Inches.	
The mean 10 A.M. vapour pressure during the month	·581	
The total rainfall of the month	Nil	
The greatest fall in 24 hours	Nil	
	Days.	
The number of rainy days in the month	Nil	

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 8th December 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 30th November to 6th December 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature. Daily mean.	Temperature. Maximum.	Temperature. Range.	Temperature. Minimum.	Hygrometry. Dry bulb at 10 A.M.	Hygrometry. Wet bulb at 10 A.M.	Hygrometry. Vapour pressure at 10 A.M.	Hygrometry. Dew point at 10 A.M.	Hygrometry. Humidity at 10 A.M.	Rainfall past 24 hours.
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
November...	30th ...	30·113	68·4	78·9	21·0	57·9	72·6	64·6	·504	59·2	63	...
December...	1st ...	·019	67·8	78·1	20·7	57·4	72·6	65·4	·531	60·6	66	...
,, ...	2nd ...	·048	67·9	78·7	21·6	57·1	72·1	63·6	·476	57·6	60	.
,, ...	3rd ...	·085	68·4	78·9	21·0	57.9	71·8	64·6	·516	59·8	66	...
,, ...	4th ...	·116	67·9	78·1	20·4	57·7	70·6	65·6	·565	62·4	76	...
,, ...	5th ...	·050	69·4	79·8	20·9	58·9	73·1	67·1	·585	63·4	72	...
,, ...	6th ...	·017	69·7	80·9	22·5	58·4	72·6	64·6	·504	59·2	63	...

		Inches.
		°
The mean 10 A.M. pressure of the seven days		30·064
The mean temperature of the seven days		68·5
The extreme variation of temperature		23·8
The maximum temperature		80·9
		%
The mean 10 A.M. relative humidity of the seven days		67
		Inches.
The total fall of rain from 30th November to 6th December 1890 ...		Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 8th December 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 22nd November 1890.

Births.

The births registered during the week ending with Saturday, the 22nd November 1890, in twenty-seven principal towns of Bengal, excluding one (Gya) from which no return has yet been received, correspond to an annual rate of 27·1 per 1,000 of the aggregate population of the twenty-six towns, which is 985,453. This rate is equal to the average rate of the corresponding week of the past five years, and is below the rate of the corresponding week of any of the past five years except 1886 and 1887, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	28·2	23·4	25·1	29·0	29·9	27·1	27·1

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	Towns.	Weeks ending— 1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.
Burdwan	33·6	32·0	21·4	39·7	Naraingunj	66·2	115·9	74·5	37·3
Midnapore	20·1	17·0	15·5	23·2	Chittagong	11·7	14·1	16·4	9·4
Hughli and Chinsurah	42·7	27·9	32·8	44·3	Comillah	19·3	27·0	23·1	27·0
Serampore	53·0	39·3	55·0	43·2	Patna City	11·4	15·3	10·7	13·3
Utterpara	47·2	37·7	37·7	56·6	Gya	16·4	17·8	21·9	Not furnished.
Howrah	31·5	33·8	28·1	36·1	Arrah	21·5	43·1	10·8	33·5
Bali	10·5	21·1	21·1	31·6	Mozufferpore	37·7	32·8	32·8	10·9
Krishnagar	22·7	18·9	13·2	11·4	Durbhanga	59·0	31·5	36·2	40·1
Ranaghat	12·0	12·0	24·0	12·0	Chupra	33·2	19·1	14·1	22·1
Santipore	19·3	15·8	19·3	24·5	Bhagulpore	46·2	50·7	37·1	24·4
Jessore	..	12·2	30·6	6·1	Monghyr	51·5	44·3	30·7	38·9
Rampore Beauleah	36·8	44·7	44·7	52·5	Purneah	8·4	27·7	6·9	10·4
Darjiling	..	14·8	44·5	29·6	Poori	21·0	27·3	14·7	14·7
Dacca	27·9	31·1	24·0	31·1	Total	29·1	28·9	24·2	27·1

It will be seen that last week the highest birth-rate was returned from Uttorpara (56·6) and the lowest from Jessore (6·1).

Deaths.

The deaths registered during the week under review correspond to an annual rate of 26·4 per 1,000 of the population. The rate of the week is 6.7 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	35·7	43·4	22·8	27·1	39·6	33·1	26·4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending— 1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	Towns.	Weeks ending— 1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.
Burdwan	35·1	25·9	22·9	33·6	Naraingunj	45·5	41·4	58·6	58·0
Midnapore	21·7	24·8	29·4	29·4	Chittagong	25·8	21·1	14·1	9·4
Hughli and Chinsurah	31·2	27·9	52·5	37·7	Comillah	11·6	23·1	19·3	23·1
Serampore	82·4	45·1	72·6	36·4	Patna City	13·3	16·2	14·8	14·8
Utterpara	56·6	37·7	66·1	28·3	Gya	27·3	44·4	44·4	Not furnished.
Howrah	18·9	19·5	22·9	26·9	Arrah	10·8	22·7	12·0	13·2
Bali	14·0	24·6	21·1	17·5	Mozufferpore	16·6	20·7	17·6	17·0
Krishnagar	11·4	18·9	5·7	5·7	Durbhanga	26·0	14·2	18·9	33·0
Ranaghat	24·0	6·0	12·0	30·0	Chupra	17·1	13·1	8·0	18·1
Santipore	10·5	10·3	7·0	17·5	Bhagulpore	18·1	16·8	17·2	19·0
Jessore	49·0	21·5	49·0	18·4	Monghyr	37·1	40·7	37·1	32·2
Rampore Beauleah	39·4	47·3	13·1	47·3	Purneah	27·7	24·2	13·9	6·9
Darjiling	66·7	26·6	7·4	..	Poori	35·7	25·3	65·0	58·7
Dacca	26·8	21·4	15·0	45·4	Total	23·7	23·9	23·4	26·4

It will be seen that last week the highest mortality occurred in the town of Serampore (86·4) and the lowest in Krishnagar (5·7). No deaths were registered during the week in Darjiling town.

Measured by last week's mortality, the highest annual death-rates from cholera, fever, bowel-complaints and other causes occurred in the following towns :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Poori ..	8·4	Serampore ...	51·0	Dacca ...	11·0	Narainganj ...	24·8
Howrah ...	6·3	Rampore Beauleah	31·5	Rampore Beauleah	10·5	Serampore ...	21·6
Monghyr ...	5·4	Burdwan ...	27·5	Poori ...	10·5	Dacca ...	20·1
Patna City ...	2·9	Poori ...	25·1			Hughli and Chinsurah ...	13·1
		Hughli and Chinsurah ...	23·0			Poori ...	10·5
		Durbhanga ...	21·2				

The total mortality from the several registered death-causes in the twenty-six principal towns amounted to 2·3 from cholera, against 1·6 per 1,000 in the preceding week; ·2 from small-pox, against ·3; 12·7 from fever, against 9·5; 3·8 from bowel-complaints, against 3·7; ·4 from injury, against ·3; and 7· from other causes, against 6·3 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	27·9	Christians ...	37·5	Under 1 year ...	182·9
Females	24·7	Hindus ...	26·7	1 and under 5 years ...	30·0
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population...	113	Mahomedans ...	25·6	5 ,, 10 ,, ...	14·6
				10 ,, 15 ,, ...	11·0
				15 ,, 20 ,, ...	18·5
				20 ,, 30 ,, ...	15·1
				30 ,, 40 ,, ...	19·8
				40 ,, 60 ,, ...	22·1
				50 ,, 60 ,, ...	24·2
				60 years and upwards ...	78·1

Detailed information regarding the vital statistics of the twenty-six principal towns dealt with in the above review will be found in the statement appended

W. H. Gregg, *Dip. Publ Health, Camb.*,

The 9th December 1890. *Sanitary Commissioner for Bengal.*

DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																	
												Disease.														Sex.				
					Number of—			Ratio per 1,000 of population per annum.			Ratio of male births to every 100 female births.	Deaths from—							Ratio per 1,000 of population per annum.							Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of popula-tion per annum.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	10	16	26	15·3	24·4	39·7	62	1	...	18	...	1	2	22	1·5	...	27·5	...	1·5	3·1	33·6	22·9	9	13	25·9	42·2	61
Midnapore ...	Midnapore ...	16,927	16,633	33,560	6	9	15	9·3	13·9	23·2	66	...	1	6	5	2	5	19	...	1·5	9·3	7·7	3·1	7·7	29·4	29·4	10	9	30·7	28·1	109
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	10	17	27	16·4	27·9	44·3	58	...	...	14	1	...	8	23	...	...	23·0	1·6	...	13·1	37·7	52·5	13	10	42·6	32·9	129
Serampore ...	Serampore... ...	13,559	12,937	26,496	10	12	22	19·6	23·6	43·2	83	3	...	26	4	...	11	44	5·9	...	51·0	7·9	...	21·6	86·4	72·3	26	18	99·7	72·4	137
	Utterpara	5,046	2,464	5,510	3	3	6	28·3	28·3	56·6	100	...	...	2	1	...	...	3	...	...	18·9	9·4	...	...	28·3	66·1	1	2	17·1	42·2	40
Howrah ...	Howrah	53,153	37,660	90,813	35	28	63	20·0	16·0	36·1	125	11	...	14	9	...	13	47	6·3	...	8·0	5·2	...	7·4	26·9	22·9	25	22	24·5	30·4	80
	Bali	7,836	6,979	14,815	5	4	9	17·5	14·0	31·6	125	...	...	5	...	...	...	5	...	...	17·5	...	...	...	17·5	21·1	4	1	26·5	7·5	353
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	1	5	6	1·9	9·5	11·4	20	...	...	...	...	1	2	3	...	...	...	...	1·9	3·8	5·7	5·7	...	3	...	11·0	No male death.
	Ranaghat	4,038	4,655	8,693	1	1	2	6·0	6·0	12·0	100	...	...	1	...	1	3	5	...	...	6·0	...	6·0	18·0	30·0	12·0	2	3	25·8	33·5	77
	Santipore	13,766	15,979	29,687	10	4	14	17·5	7·0	24·5	250	...	...	7	1	...	2	10	...	...	12·3	1·7	...	3·5	17·5	7·9	4	6	15·2	19·5	78
Jessore ...	Jessore	4,830	3,665	8,495	...	1	1	...	6·1	6·1	No male birth.	...	...	3	...	...	...	3	...	...	18·4	...	...	...	18·4	49·0	2	1	21·5	14·2	151
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	11	9	20	28·9	23·6	52·5	122	...	..	13	4	...	2	18	...	...	31·5	10·5	...	5·3	47·3	13·1	11	7	53·1	49·3	131
Darjiling ...	Darjiling ...	4,579	2,439	7,018	3	1	4	22·2	7·4	29·6	300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7·4	...	...	...	...	...
Dacca	Dacca	42,782	37,379	80,161	28	20	48	18·2	12·9	31·1	140	3	...	19	17	...	31	70	1·9	...	12·3	11·9	...	20·1	45·4	15·6	41	29	49·8	40·3	123
	Naraingunj ...	7,605	4,956	12,561	4	5	9	16·6	20·7	37·3	80	3	..	3	2	...	6	14	12·4	...	12·4	8·3	...	24·8	58·0	58·0	10	4	69·4	42·0	163
Chittagong ...	Chittagong ...	15,340	8,790	22,130	...	4	4	...	9·4	9·4	No male birth.	...	...	1	...	...	3	4	...	...	2·3	...	...	7·0	9·4	14·1	...	4	...	23·7	No male death.
Tipperah ...	Comillah	8,153	5,353	13,506	2	5	7	7·7	19·3	27·0	40	...	...	5	...	...	1	6	...	...	19·3	...	...	3·8	23·1	19·3	2	4	12·8	38·9	32
Patna	Patna City ...	78,762	81,475	160,237	22	19	41	7·1	6·2	13·3	116	9	..	21	6	...	8	44	2·9	...	6·8	1·9	...	2·6	14·3	14·3	23	21	15·2	13·4	113
Gya	Gya	Return not received up to date.																													
Shahabad ...	Arrah	20,960	22,505	43,465	15	13	28	17·9	15·6	33·5	115	1	...	9	1	...	...	11	1·2	...	10·8	1·2	...	...	13·2	12·0	4	7	9·9	16·2	61
Mozufferpore...	Mozufferpore ...	23,084	19,658	42,742	3	6	9	3·6	7·3	10·9	50	...	...	8	1	1	4	14	...	...	9·7	1·2	1·2	4·9	17·0	17·0	6	8	13·5	21·2	63
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	26	25	51	20·4	19·7	40·1	104	...	...	27	6	...	9	42	...	...	21·2	4·7	...	7·1	33·0	18·9	34	8	53·3	12·9	405
Sarun	Chupra	25,116	26,554	51,670	11	11	22	11·0	11·0	22·1	100	2	1	1	2	...	7	13	2·0	1·0	1·0	2·0	...	7·0	13·1	8·0	5	8	10·4	15·7	63
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	10	17	27	9·0	15·4	24·4	58	1	...	15	2	...	3	21	·9	...	13·6	1·9	..	2·7	19·0	17·2	12	9	21·1	16·8	125
Monghyr ...	Monghyr	28,154	29,366	57,520	16	27	43	14·5	24·4	38·9	59	6	...	11	5	...	7	29	5·4	...	9·9	4·5	...	6·3	26·2	27·1	16	13	29·6	23·0	128
Purneah ...	Purneah	8,463	6,553	15,016	3	...	3	10·4	...	10·4	No female birth.	...	...	1	...	...	1	2	...	...	3·4	...	...	3·4	6·9	13·9	2	...	12·3	...	No female death.
Poori	Poori	13,247	11,537	24,784	5	2	7	10·5	4·2	14·7	250	4	1	12	5	1	5	28	8·4	2·1	25·1	10·5	2·1	10·5	58·7	65·0	13	15	51·0	67·6	75
	TOTAL ...	512,696	472,757	985,453	250	264	514	13·2	13·9	27·1	94	44	3	241	72	7	133	500	2·3	·2	12·7	3·8	·4	7·0	25·4	21·7	275	225	27·9	24·7	113

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	1	20	1	...	...	388·1	43·9	5·1	...	...	4	4	1	3	...	2	1	5	...	2	315·2	92·2	22·3	62·0	.....	13·1	7·5	58·9	.....	70·2
Midnapore	Midnapore	...	13	6	...	...	...	26·1	43·2	...	...	3	..	1	...	3	5	2	2	...	3	210·0	.....	13·9	.....	49·4	35·4	18·8	27·9	.....	85·2
Hughli	Hughli and Chinsurah.	...	21	2	...	...	.....	43·2	16·9	...	...	2	4	2	1	...	...	5	1	2	6	129·5	93·7	36·0	21·0	.....	.....	45·5	12·5	40·0	150·5
Serampore	Serampore	...	38	6	...	...	.....	78·3	332·6	.	...	5	5	2	3	1	7	7	3	1	10	366·2	144·0	41·4	70·3	23·8	67·6	73·2	46·2	27·2	373·8
	Utterpara	...	3	...	...	...	.....	29·3	.....	...	..	...	...	...	...	...	...	...	2	..	1	.....	.....	.....	.....	.....	.....	.....	149·4	.....	200·0
Howrah	Howrah	1	34	12	...	...	27·5	25·9	30·4	...	...	4	6	2	2	2	7	6	8	3	7	100·8	56·3	16·5	15·8	14·2	16·0	16·2	35·4	28·4	97·0
	Bali	...	4	1	...	...	.....	15·5	39·7	...	...	...	1	..	...	...	...	...	2	1	1	.....	52·1	.....	.....	.....	.....	.....	53·7	49·6	71·0
Nuddea	Krishnagar	...	1	2	...	...	.....	2·8	12·6	...	...	2	1	...	...	...	...	...	...	...	...	209·7	21·1	.....	.....	.....	.....	.....	.....	.....	.....
	Ranaghat	...	5	...	...	...	.....	35·5	.....	...	...	...	...	...	1	...	...	1	1	...	2	.....	.....	... ..	59·9	.....	.....	41·7	51·8	.....	182·8
	Santipore	...	9	1	...	...	... ...	22·6	5·3	...	...	2	2	...	...	...	...	2	...	2	2	123·1	35·9	.....	.....	.....	.....	24·0	.....	45·2	53·0
Jessore	Jessore	...	1	2	...	...	... ..	11·5	27·2	...	...	...	...	1	...	...	...	1	1	...	...	.....	.....	65·6	.....	.....	.....	34·0	49·5	.....	.....
Rajshahye	Rampore Boaleah	...	4	14	...	...	.....	21·0	74·2	...	...	3	1	3	1	...	3	1	1	2	2	384·2	36·7	75·0	28·9	.....	37·5	14·4	42·4	33·8	108·0
Darjiling	Darjiling	...	...	...	...	...	.....	...	.....	...	...	...	...	...	...	...	...	...	...	...	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dacca	Dacca	1	37	32	...	...	109·5	47·7	43·3	...	...	12	2	4	2	9	10	9	6	4	12	328·8	14·1	21·0	13·1	64·1	33·9	40·1	37·2	43·9	112·0
	Naraingunj	...	6	8	...	...	.....	49·3	67·5	...	...	3	2	...	1	1	1	1	...	1	4	559·1	91·2	.....	45·8	49·8	19·5	24·3	.....	66·5	319·6
Chittagong	Chittagong	1	...	3	...	...	65·3	...	10·2	..	...	2	...	...	...	...	...	...	1	...	1	184·7	.....	.....	.....	.....	.....	.....	23·0	... ..	65·3
Tipperah	Comillah	...	3	3	...	...	.....	26·2	21·1	...	...	3	1	...	...	1	...	...	1	...	...	525·3	39·8	.....	.....	41·3	.....	.....	39·6	.....	.....
Patna	Patna City	...	35	9	...	...	.....	15·3	11·4	...	...	5	3	3	2	2	4	9	4	3	9	60·3	10·7	9·3	7·2	9·3	7·2	20·1	11·0	11·0	33·9
Gya	Gya	Return not received up to date.																													
Shahabad	Arrah	...	8	3	...	...	.....	13·4	12·6	...	...	1	2	...	1	2	...	1	...	1	3	40·4	23·5	.....	11·8	32·4	.....	8·1	.....	16·8	54·1
Mozufferpore	Mozufferpore	...	6	8	...	...	.....	10·4	33·3	...	...	5	1	...	...	1	2	1	1	1	2	272·3	12·9	.....	.....	17·2	12·1	7·5	10·4	16·0	42·7
Durbhanga	Durbhanga	1	34	7	...	...	460·2	36·5	20·7	...	...	9	8	4	1	2	2	5	3	1	7	300·6	54·7	26·6	9·4	25·9	7·8	23·3	21·0	11·9	114·0
Saran	Chapra	...	7	6	...	...	.....	9·2	26·2	...	...	4	...	...	...	...	1	3	...	3	2	147·4	.....	.....	.....	.....	5·6	20·0	.....	37·7	39·6
Bhagulpore	Bhagulpore	...	15	6	...	...	.....	19·6	18·1	...	...	4	3	3	...	1	3	...	4	...	3	174·2	28·8	26·6	.....	12·4	14·3	.....	33·0	.....	43·3
Monghyr	Monghyr	...	24	5	...	...	.....	27·9	20·7	...	...	6	3	1	1	2	2	6	2	...	6	210·1	25·1	7·4	9·1	27·5	10·1	35·0	16·3	.....	87·0
Purneah	Purneah	...	2	...	...	...	.....	11·3	.....	...	...	...	...	...	...	...	2	...	...	...	...	.....	.....	.....	.....	.....	.....	31·6	.....	.....	.....
Pooree	Pooree	...	28	...	...	...	.....	59·4	.....	...	...	4	1	2	...	...	6	1	...	8	6	696·5	28·9	46·4	.....	.....	59·1	12·8	.....	1186·5	172·8
	TOTAL	5	388	137	...	...	37·5	26·7	25·6	...	...	83	50	29	19	27	57	62	49	33	91	152·9	30·0	14·6	11·0	18·5	15·1	19·8	22·1	24·2	78·1

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of August 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. / MACHGONG „ 4 „

DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
	Quantity—Tons.			Value.	Quantity.	Value.	
	Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1. Grain ...	52	103	155	10,360	155	10,360	
2. Cotton ...	.....	.....	.....	.....	.....	.....	
3. Oilseeds ...	.....	29	29	3,150	29	3,150	
4. Salt ...	.....	.....	.....	.....	.....	.....	
5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
6. Metal ...	.....	.....	.....	.....	.....	.....	
7. Building materials	.....	.....	.....	.....	.....	.....	
8. Miscellaneous ...	25	178	203	3,387	203	3,387	
9. Fuel ...	4	.....	4	20	4	20	
10. Timber ...	.....	4 No.	4 No.	20	4 No.	20	
11. Bamboos ...	.....	.....	.....	.....	.....	.....	
12. Total ...	81	310 & 4 No.	391 & 4 No.	16,937	391 & 4 No.	16,937	
13. Total of same month last year.	74	493 & 2,300 No.	567 & 2,300 No.	24,558	567 & 2,300 No.	24,558	

	Up.	Down.	Total.
Total number of boats plying cargo No.	14	32	46
Total number of boats plying passenger No.	1	.....	1
Do. empty boats „	38	11	49
Total registered tonnage, cargo Tons	81	310	391
Do. empty Govt. ...	5	.....	5
Total registered tonnage, passenger Tons	1	.....	1
Do. empty boats ton mileage	2,643	1,123	3,766
Ton-mileage ...	4,087	6,740	10,827
Estimated value of cargo Rs.	7,100	9,817	16,917
Number of passengers ...	1	.....	1
Rafts, bamboos C. ft.	.....	.....	.....
Do., bullahs No.	.....	4	4
Estimated value of rafts Rs.	.....	20	20
Tollage on boats „	53-4-0	91-3-0	144-7-0
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts „	.....	1-1-6	1-1-6
Demurrage of one boat	1-8-0	.....	1-8-0
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·60
Total tollage on rafts per cubic feet Rs	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	147 0 6
Total tollage of same month last year ...	244 3 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	46 13 0
2. Tollage per month ...	147 0 6
3. Total ...	193 13 6
4. Amount credited in the accounts of the month ...	144 4 0
5. Balance due at the end of the month ...	49 9 6

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
209	1. Grain ...	376	2,775	3,151	2,57,140	3,151	2,57,140
2	2. Cotton ...	59	.....	59	16,000	59	16,000
59	3. Oilseeds ...	42	1,452	1,494	1,99,600	1,494	1,99,600
20	4. Salt ...	64	15	79	6,500	79	6,500
1	5. Piece-goods ...	22	.....	22	6,000	22	6,000
1	6. Metal ...	1	.....	1	100	1	100
24	7. Building materials	9	261	270	9,420	270	9,420
123	8. Miscellaneous ...	747	391	1,138	2,36,890	1,138	2,36,890
29	9. Fuel ...	125	34	159	550	159	550
...	10. Timber ...	.....	.....	.....	.....	.....	...
...	11. Bamboos ...	.....	...	.....	... ..	.....	.....
468	12. Total ...	1,445	4,928	6,373	7,32,200	6,373	7,32,200
247 & 1 raft.	13. Total of same month last year.	1,321	982 & 4 No.	2,303 & 4 No.	2,57,670	2,283 & 4 No.	2,57,630

		Up.	Down.	Total.
14.	Total number of boats plying cargo No.	169	299	468
15.	Total number of boats plying passenger No.	49	48	97
15½.	Ditto empty boats ,,	276	107	383
16.	Total registered tonnage, cargo, private Tons	3,004	8,232	11,236
16½.	Ditto Government ditto ,,	.....	.....	.....
17.	Total registered tonnage, passenger Tons	1,888	1,737	3,625
17½.	Ditto empty boats ,,	2,826	546	3,372
18.	Ton-mileage ...	3,24,717	4,25,298	7,50,015
19.	Estimated value of cargo Rs.	2,35,910	4,96,290	7,32,200
20.	Number of passengers ...	1,604	975	2,579
21.	Rafts, bamboos C. ft.	.....	.. ...	.....
22.	Do., bullahs ,,	.....	......	.....
23.	Estimated value of rafts Rs.	.....	.....	.....
24.	Tollage on boats ,,	2,774-0-1	4,751-5-11	7,525-6-0
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts ,,	.....	.....	.....
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·9
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs
Total tollage of month—24 + 25 + 26 ...	7,525
Total tollage of same month last year ...	3,621

Memorandum of Tollage.

	Rs
1. Balance not recovered on the 1st of the month ...	5,278
2. Tollage per month ...	7,525
3. Total ...	12,804
4. Amount credited in the accounts of the month ...	5,190
5. Balance due at the end of the month ...	7,613

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
134	1. Grain ...	508	2	510	28,880	510	28,880	
4	2. Cotton ...	4	37	41	11,000	41	11,000	
10	3. Oilseeds ...	52	4	56	4,630	56	4,630	
54	4. Salt ...	.....	155	155	12,690	155	12,690	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
12	7. Building materials	25	27	52	2,430	52	2,430	
59	8. Miscellaneous ...	79	125	204	19,770	204	19,770	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
273	12. Total ...	668	350	1,018	79,400	1,018	79,400	
258	13. Total of same month last year ...	796	330	1,126	92,130	1,126	92,130	

	Up.	Down	Total.
4. Total number of boats plying cargo No.	171	102	273
5. Total number of boats plying passenger No.	20	22	42
5½. Do. empty boats ,,	42	107	149
6. Total registered tonnage, cargo, private Tons	1,601	827	2,428
6½. Ditto Govt. ditto ,,	.....	.....	.....
7. Total registered tonnage, passenger Tons	360	360	720
7½. Do. empty. boats ,,	159	482	641
8. Ton-mileage ...	62,640	47,029	1,09,669
9. Estimated value of cargo Rs.	38,560	40,840	79,400
0. Number of passengers ...	388	365	753
1. Rafts, bamboos C. ft.	.....	.....	.....
2. Do., bullahs ,,	.....	.....	.....
3. Estimated value of rafts Rs.	.....	.....	.....
4. Tollage on boats ,,	598-3-0	424-8-9	1,022-11-9
5. Compounded tollage on boats Rs.	.....	.....	.....
6. Tollage on rafts ,,	.....	.....	.....
7. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·8
8. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,022	11	9
Total tollage of same month last year	750	2	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	440	10	6
2. Tollage per month ...	1,022	11	9
3. Total ...	1,463	6	3
4. Amount credited in the accounts of the month	1,050	0	6
5. Balance due at the end of the month ...	413	5	9

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
63	1. Grain ..	178	12	190	11,267	190	11,267
...	2. Cotton ...	.....	.....	.....	.....	.....	...
5	3. Oilseeds .	12	14	26	2,624	26	2,624
1	4. Salt ...	.....	3	3	344	3	344
...	5. Piece-goods ...	.....	.....	.....	.....	...	.....
...	6. Metal ..	.....	.....	...	.....	...	.....
3	7. Building materials	5	10	15	200	15	200
18	8. Miscellaneous ...	.....	52	52	6,980	52	6,980
...	9. Fuel ...	.....	.....	.....	.....	...	.....
7 rafts	10. Timber (No. 475)	.....	2,850 c. ft	2,850 c. ft.	1,034	2,850 c. ft.	1,034
...	11. Bamboos ..	.....	.....	.....	.....	...	.....
90 & 7 rafts.	12. Total ...	195	91 2,850 c. ft.	286 2,850 c. ft.	22,449	286 2,850 c. ft.	22,449
122 & 1 raft.	13. Total of same month last year.	285	118 & 24 c. ft.	403 24 c. ft.	23,344	398½ 24 c. ft.	23,212

		Up.	Down.	Total.
14.	Total number of boats plying cargo ... No.	61	29	90
15.	Total number of boats plying passenger No.	18	18	36
15½.	Ditto empty boats „	31	48	79
16.	Total registered tonnage, cargo and boats Tons	384	194	578
16½.	Ditto Govt. ditto „	.....	.....	.....
17.	Total registered tonnage, passenger Tons	441	448	889
17½.	Ditto empty ditto „	108	130	238
18.	Ton-mileage	11,108	9,264	20,372
19.	Estimated value of cargo Rs.	11,116	10,299	21,415
20.	Number of passengers ...	296	283	579
21.	Rafts, bamboos C. ft	.....	.....	.....
22.	Do., bullahs „	.....	2,850	2,850
23.	Estimated value of rafts Rs.	.....	1,034	1,034
24.	Tollage on boats „	150-11-9	124-6-6	275-2-3
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts „	.....	19-2-6	19-2-6
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·61
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-10-2

	Rs.	A.
Total tollage of month—24 + 25 + 26 ...	294	4
Total tollage of same month last year ...	174	2

Memorandum of Tollage.

	Rs.	A.
1. Balance not recovered on the 1st of the month ...	4	4
2. Tollage per month ...	294	4
3. Total ...	298	9
4. Amount credited in the accounts of the month ...	289	14
5. Balance due at the end of the month ...	8	11

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
	Quantity—Tons.			Value.	Quantity.	Value.	
	Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1. Grain ...	108	10	118	7,141	118	7,141	* This includes annas 10 more recovered during the month of March 1890.
2. Cotton ...	.....	.....	.....	.....	.....	.....	
3. Oilseeds ...	.....	6	6	692	6	692	
4. Salt ...	.....	7	7	800	7	800	
5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
6. Metal ...	.....	.....	.....	.....	.....	.....	
7. Building materials	.....	2	2	120	2	120	
8. Miscellaneous ...	.....	26	26	5,040	26	5,040	
9. Fuel ...	.....	.....	.....	.....	.....	.....	
10. Timber (No. 6)	.....	36 c. ft.	36 c. ft.	2	36 c. ft.	2	
11. Bamboos	.....	100 No.	100 No.	5	100 No.	5	
12. Total ...	108	51 36 c. ft. 100 No.	159 36 c. ft. 100 No.	13,800	159 36 c. ft. 100 No.	13,800	
13. Total of same month last year ...	157	72 & 1,392 c. ft.	229 & 1,392 c. ft.	14 945	199 & 1,392 c. ft.	14,720	

	Up.	Down.	Total.
al number of boats plying cargo No.	44	10	54
al number of boats plying passenger No.	18	18	36
itto empty boats ,,	15	42	57
al registered tonnage, go and boat Tons	200	87	287
itto Govt. boats ,,	10	.....	10
al registered tonnage, passenger Tons	447	450	897
itto empty boats ,,	50	92	142
n-mileage ...	13,433	11,951	25,384
imated value of cargo Rs.	6,055	7,738	13,793
mber of passengers ...	264½	216½	481
fts, bamboos No.	.....	100	100
o., bullahs C. ft	.....	36	36
timated value of rafts Rs.	.....	7	7
llage on boats ,,	121-10-0	100-13-0	222-7-0
mpounded tollage on boats Rs.	.....	.....	.....
llage on rafts ,,	.....	0 1 6	0 1 6
tal tollage on boats per ton-mile Rs.	.....	.....	0-0-1·59
tal tollage on rafts per 100 cubic feet Rs.	.....	.....	0 1 5

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	222 8 6
Total tollage of same month last year	109 9 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	—0 10 0
2. Tollage per month ...	222 8 6
3. Total ...	221 14 6
4. Amount credited in the accounts of the month ...	221 14 6
5. Balance due at the end of the month ...	.....

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
24	1. Grain ...	...	13	13	672	13	67
1	2. Cotton ...	½	.....	½	30	½	3
8	3. Oilseeds ...	.....	9	9	2,500	9	2,50
...	4. Salt ...	.....	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
...	7. Building materials	.....	.....	.....	.....	.....	.....
12	8. Miscellaneous ...	.....	19	19	3,565	19	3,56
4	9. Fuel ...	.....	22	22	28	22	2
5 rafts,	10. Timber ...	.....	2,166 c. ft.	2,166 c. ft.	1,083	2,166 c. ft.	1,08
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
44 & 5 rafts.	12. Total ...	½ ...	63 2,166 c. ft.	63½ 2,166 c. ft.	7,878	63½ 2,166 c.ft.	7,87
9 & 3 rafts.	13. Total of same month last year.	....	19½ 1,200 c. ft.	19½ 1,200 c. ft.	2,710	19½ 1,200 c. ft.	2,71

		Up.	Down.	Total.
14. Total number of boats plying cargo	No.	1	43	44
15. Total number of boats plying passenger	No.	3	3	6
15½. Ditto empty ditto	,,	46	1	47
16. Total registered tonnage, cargo	Tons	1	106	107
16½. Ditto Govt. boats	,,	.....	.....	.....
17. Total registered tonnage, passenger	Tons	23	23	46
17½. Ditto empty ditto	,,	57	1	58
18. Ton-mileage	...	486	780	1,266
19. Estimated value of cargo	Rs.	30	6,765	6,795
20. Number of passengers	...	.....	.....	.....
21. Rafts, bamboos	C. ft.	Nil	Nil	Nil
22. Do., bullahs	,,	.....	2,166	2,166
23. Estimated value of rafts	Rs.	.....	1,083	1,083
24. Tollage on boats	,,	6-1-0	16-13-6	22-14-6
25. Compounded tollage on boats	Rs.	.....	.....	.....
26. Tollage on rafts	,,	.....	7-15-0	7-15-0
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-3·46
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	0-6-3

	R
Total tollage of month— 24 + 25 + 26 ...	3
Total tollage of same month last year	

Memorandum of Tollage

	R
1. Balance not recovered on the 1st of the month	
2. Tollage per month ...	
3. Total ...	
4. Amount credited in the accounts of the month ...	
5. Balance due at the end of the month ...	

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,046	1. Grain ...	5,897	625	6,522	4,13,642	6,522	4,13,642	
2	2. Cotton ...	.....	10	10	5,180	10	5,180	
52	3. Oilseeds ...	89	341	430	47,350	430	47,350	
140	4. Salt ...	.....	1,279	1,279	1,28,131	1,279	1,28,131	
14	5. Piece-goods ...	33	42	75	1,87,840	75	1,87,840	
17	6. Metal ...	94	88	182	1,66,805	182	1,66,805	
53	7. Building materials	293	77	370	2,753	370	2,753	
547	8. Miscellaneous ...	757	1,906	2,663	6,18,527	2,663	6,18,527	
38	9. Fuel ...	19	259	278	2,096	278	2,096	
3 rafts	10. Timber ...	1,345 c. ft.	.....	1,345 c. ft.	920	1,345 c. ft.	920	
7 „	11. Bamboos ...	2,175 „	.....	2,175 „	178	2,175 „	178	
1,909 & 10 rafts.	12. Total ...	7,182 & 3,520 c. ft.	4,627	11,809 & 3,520 c. ft.	15,73,422	11,809 & 3,520 c. ft.	15,73,422	
1,941 & 2 rafts.	13. Total of same month last year.	6,798 & 37,133 c. ft.	4,033 & 21 c. ft.	10,831 & 37,154 c. ft.	12,54,674	10,831 & 37,154 c. ft.	12,54,674	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	1,182	727	1,909
15. Total number of boats plying passenger No.	696	708	1,404
15½. Ditto empty „	365	634	999
16. Total registered tonnage, cargo Tons	17,602	11,059	28,661
17. Total registered tonnage, passenger Tons	4,081	3,815	7,896
17½. Ditto empty „	1,494	2,893	4,387
18. Ton-mileage ...	409,356	259,918	669,274
19. Estimated value of cargo Rs.	7,78,854	7,93,470	15,72,324
20. Number of passengers ...	6,398	9,297	15,695
21. Rafts, bamboos C. ft.	2,175	.....	2,175
22. Do., bullahs „	1,345	.....	1,345
23. Estimated value of rafts Rs.	1,098	.....	1,098
24. Tollage on boats „	6,416-15-6	3,844-12-0	10,261-11-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	18-3-0	.....	18-3-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·9
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-8-3

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	10,279	14	6
Total tollage of same month last year ...	12,032	12	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	4,921	9	10
2. Tollage per month ...	10,279	14	6
3. Total ...	15,201	8	4
4. Amount paid into treasury during the month ...	10,210	2	3
5. Balance due at the end of the month ...	4,991	6	1

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
519	1. Grain ...	3,799	.....	3,799	1,78,659	3,799	1,78,659	
...	2. Cotton ...	..	... ..	.....	.....	.....	...	
8	3. Oilseeds ...	27	23	50	6,510	50	6,510	
72	4. Salt ...	.....	732	732	81,550	732	81,550	
11	5. Piece-goods ...	.....	65	65	45,625	65	45,625	
1	6. Metal ..	.....	2	2	300	2	300	
6	7. Building materials	7	63	70	1,865	70	1,865	
833	8. Miscellaneous ...	966	609	1,575	1,11,413	1,575	1,11,413	
9	9. Fuel ...	3	148	151	1,067	119	842	
3 rafts	10. Timber C. ft.	1,815	120	1,935	3,300	1,935	3,300	
...	11. Bamboos ...	.....	.....	... .	.....	.....	.....	
1,459 & 3 rafts.	12. Total ...	4,802 & 1,815 c. ft.	1,642 & 120 c. ft.	6,444 & 1,935 c. ft.	4,30,289	6,412 & 1,935 c ft.	4,30,064	
1,086 & 4 rafts.	13. Total of same month last year.	3,377 & 304 c ft.	1,147 & 69 c ft.	4,524 & 373 c. ft.	2,86,617	4,494 & 373 c. ft.	2,86,405	

		Up.	Down.	Total.
14.	Total number of boats plying cargo No.	705	754	1,459
15.	Total number of boats plying passenger No.	57	54	111
16.	Total registered tonnage, cargo Tons	10,127	6,648	16,775
17.	Total registered tonnage, passenger Tons	553	521	1,074
18.	Ton-mileage	1,93,469	1,30,527	3,23,996
19.	Estimated value of cargo Rs.	2,05,423	2,21,566	4,26,989
20.	Number of passengers ...	1,112	1,217	2,329
21.	Rafts, bamboos C. ft.	.....	.....	.....
22.	Do., bullahs ,,	1,815	120	1,935
23.	Estimated value of rafts Rs.	3,200	100	3,300
24.	Tollage on boats ,,	3,383-15-0	2,310-14-3	5,694-13-3
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts ,,	10-0-0	0-8-0	10-8-0
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·8
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-8-8

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	5,705	5	
Total tollage of same month last year	3,855	9	

Memorandum of Tollage.

		Rs.	A.	P.
1.	Balance not recovered on the 1st of the month ...	2,165	5	
2.	Tollage per month ...	5,705	5	
3.	Total ...	7,870	10	
4.	Amount paid into treasury during the month . .	5,511	13	
5.	Balance due at the end of the month	2,358	13	

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES.

DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
	Quantity—Tons.			Value.	Quantity.	Value.	
	Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1. Grain ...	.....	658	658	48,954	658	48,954	
2. Cotton ...	.....	.....	.....	.....	.....	.....	
3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
4. Salt ...	56	.....	56	5,444	56	5,444	
5. Piece-goods ...	102	6	108	18,845	108	18,845	
6. Metal ...	7	1	8	2,460	8	2,460	
7. Building materials	16	45	61	700	48	425	
8. Miscellaneous ...	169	199	368	56,358	368	56,358	
9. Fuel ...	.....	.....	.....	.....	.....	.....	
10. Timber ...	.....	.....	.....	.....	.....	.....	
11. Bamboos ...	.....	.....	.....	.....	.....	.....	
12. Total ...	350	909	1,259	1,32,761	1,246	1,32,486	
13. Total of same month last year ...	319	946	1,265	1,40,098	1,257	1,39,723	

	Up.	Down.	Total.
number of boats ply-cargo No.	38	66	104
number of boats ply-passenger No.	6	4	10
empty boats ,,	34	8	42
registered tonnage, o Tons	613	1,338	1,951
registered tonnage, enger Tons	206	164	370
empty boats ,,	218	50	268
nileage ...	65,131	76,637	1,41,768
nated value of cargo Rs.	48,897	83,864	1,32,761
ber of passengers ...	475½	349	824½
, bamboos C. ft.	.....	.....	.....
bullahs ,,	.....	.....	.....
nated value of rafts Rs.	.....	.....	.....
ge on boats ,,	451-8-3	778-12-3	1,230-4-6
pounded tollage on ts Rs.	75-0-0	75-0-0	150-0-0
ge on rafts ,,	.....	.....	.....
l tollage on boats per n-mile Rs.	.....	.....	0-0-1·8
l tollage on rafts per 00 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,380	4	6
Total tollage of same month last year ...	1,651	9	7

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	195	2	6
2. Tollage per month ...	1,380	4	6
3. Total ...	1,575	7	0
4. Amount credited in the accounts of the month	1,401	13	0
5. Balance due at the end of the month	173	10	0

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	Total Government and Private.				Private.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
37	1. Grain ...	44	387	431	29,079	431	29,079
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
1	3. Oilseeds ...	.....	7	7	400	7	400
10	4. Salt ...	72	.....	72	10,910	72	10,910
3	5. Piece-goods ...	11	.....	11	15,230	11	15,230
1	6. Metal ...	3	.....	3	75,342	3	75,342
20	7. Building materials	33	199	232	3,719	203	3,408
32	8. Miscellaneous ...	55	128	183	16,653	154	15,888
22	9. Fuel ...	.....	338	338	4,720	326	4,546
...	10. Timber ...	.....	.....	.....	.....	.....	.....
Rafts	11. Bullahs ... / Bamboos ...	.....	50	50	150	50	150
		.....	.....	.....	.....	.....	.....
126	12. Total ...	218	1,109	1,327	1,56,203	1,257	1,54,953
231	13. Total of same month last year.	324	1,474	1,798	2,31,046	1,688	2,30,705

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	32	94	126
15. Total number of boats plying passenger No.	4	2	6
15½. Total number of empty boats No.	104	3	107
16. Total registered tonnage, cargo Tons	424	1,881	2,305
17. Total registered tonnage, passenger Tons	72	59	131
17½. Total registered tonnage, empty Tons	570	15	585
18. Ton-mileage ...	48,058	92,080	140,138
19. Estimated value of cargo Rs.	1,11,515	44,538	1,56,053
20. Number of passengers ...	737	662	1,399
21. Rafts, bamboos C.ft.	.....	.....	.....
22. Do., bullahs „	.....	3,800	3,800
23. Estimated value of rafts Rs.	.....	150	150
24. Tollage on boats „	257-12-3	894-6-9	1,152-3-0
25. Compounded tollage on boats Rs.	100-0-0	100-0-0	200-0-0
26. Tollage on rafts „	.....	4-12-0	4-12-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·85
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-2-0

	Rs.
Total tollage of month—24 + 25 + 26 ...	1,356 1
Total tollage of same month last year ...	1,412

Memorandum of Tollage.

	Rs.
1. Balance not recovered on the 1st of the month	45
2. Tollage per month ...	1,356 1
3. Total ...	1,402
4. Amount credited in the accounts of the month	1,368
5. Balance due at the end of the month ...	34

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
17	1. Grain ...	2	318	320	22,755	320	22,755	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
1	3. Oilseeds ...	.....	25	25	2,200	25	2,200	
...	4. Salt ...	5	.....	5	820	5	820	
...	5. Piece-goods ...	2	.....	2	1,960	2	1,960	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
19	7. Building materials	12	337	349	2,105	20	80	
6	8. Miscellaneous ...	17	76	93	14,960	93	14,960	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
43	12. Total ...	38	756	794	44,800	465	42,775	
76	13. Total of same month last year.	276	756	1,032	44,483	549	42,042	

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	1	42	43
5. Total number of boats plying passenger No.	8	9	17
5½. Ditto empty "	29	4	33
6. Total registered tonnage, cargo Tons	38	992	1,030
7. Total registered tonnage, passenger Tons	216	243	459
7½. Ditto empty "	149	19	168
8. Ton-mileage ...	6,854	24,979	31,833
9. Estimated value of cargo Rs.	8,056	36,744	44,800
10. Number of passengers ...	571	684	1,255
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs "	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats "	33-11-0	264-4-9	297-15-9
25. Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0
26. Tollage on rafts "	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	511 15 9
Total tollage of same month last year ...	482 5 9

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	1 3 6
2. Tollage per month ...	511 15 9
3. Total ...	513 3 3
4. Amount credited in the accounts of the month ...	489 10 9
5. Balance due at the end of the month ...	23 8 6

ABSTRACT FOR THE MONTH OF AUGUST 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1890-91.		Traffic, 1889-90.		Remar
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	147 0 6	1,509 4 8	244 3 6	2,265 9 4	
Kendrapara Canal System	7,525 6 0	26,322 11 3	3,621 8 11	17,716 15 1	
High Level, Range I ...	1,022 11 9	3,863 9 9	750 2 0	2,823 8 2	
Ditto „ II ...	294 4 9	1,429 6 6	174 2 0	1,277 14 8	
Ditto „ III ..	222 8 6	1,045 6 9	109 9 0	634 5 9	
Jajepore Canal ...	30 13 6	100 3 10	5 1 8	35 1 8	
Total Orissa Circle ..	9,242 13 0	34,270 10 9	4,904 11 1	24,753 6 3	
South-Western Circle.					
Midnapore Canal ...	10,279 14 6	52,845 5 9	12,032 12 6	64,793 7 3	
Hidgellee Tidal Canal ...	5,705 5 3	14,753 15 0	3,855 9 3	24,477 9 6	
Total South-Western Circle	15,985 3 9	67,599 4 9	15,888 5 9	89,271 0 9	
Sone Circle.					
Patna Canal System ..	1,380 4 6	10,539 9 8	1,651 9 7	12,619 3 9	
Arrah ditto ...	1,356 15 0	8,886 13 6	1,412 6 6	8,344 4 11	
Buxar ditto ...	511 15 9	3,932 6 3	482 5 9	3,275 11 5	
Total Sone Circle ...	3,249 3 3	23,358 13 5	3,546 5 10	24,239 4 1	
Grand Total ...	28,477 4 0	1,25,228 12 11	24,339 6 8	1,38,263 11 1	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1890-91.						Traffic, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total re
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs.
High Level	816	320	721 3 7	3,948	4,040	4,351 9 10	424	387	401 2 9	2,563	3,683	2,757
Total Orissa Circle ...	816	320	721 3 7	3,948	4,040	4,351 9 10	424	387	401 2 9	2,563	3,683	2,757

TOTAL NAVIGATION RECEIPTS.

Canal	Earnings, 1890-91.		Earnings, 1889-90.		Remark
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	9,964 0 7	38,622 4 7	5,305 13 10	27,511 5 6	
Midnapore Canal ...	10,279 14 6	52,845 5 9	12,032 12 6	64,793 7 3	
Hidgellee Tidal Canal ...	5,705 5 3	14,753 15 0	3,855 9 3	24,477 9 6	
Sone Canals ...	3,249 3 3	23,358 13 5	3,546 5 10	24,239 4 1	
Total ...	29,198 7 7	1,29,580 6 9	24,740 9 5	1,41,021 10 4	

Calcutta,
The 9th December 1890.

G. A. G. Shawe,
Under-Secy. to the Govt. of Bengal

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 6th December 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 6th December 1890.			Week ending Saturday, the 7th December 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	483	58,325	866	544	36,075	459
Jute	317	2,05,425	3,638	351	1,68,000	3,020
Firewood	122	72,750	1,039	145	91,575	1,324
Other articles	942	2,34,015	4,036	1,009	2,59,610	3,978
Total ...	1,864	5,70,515	9,579	2,049	5,55,260	8,781

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
...l traffic for the week ..	272,797	3,12,889 8 0	21,86,394 10	6,29,201 15 0	16,946 3 0	9,65,037 10 6	69,022½	88,610½	158,23[illegible]
...er mile of railway	.....	209 0 7	.....	412 7 4	11 1 9	632 9 8	.....	.....	.....
previous 21 weeks of half-...ar	4,731,155	51,14,734 7 0	3,91,93,414 0	93,18,894 11 6	3,36,909 10 5	1,47,70,538 12 11	1,365,300	1,588,960½	2,954,260½
Total for 22 weeks .	5,003,952	54,33,623 15 0	4,13,79,808 10	99,48,096 11 0	3,53,855 13 5	1,57,35,576 7 5	1,434,022½	1,677,571	3,112,403½
Comparison.									
...al for corresponding week ...f previous year	246,877	3,10,007 0 8	23,21,610 0	5,99,576 10 6	20,979 9 4	9,30,563 4 6	68,645	86,699	155,344
...mile of railway correspond-...ng week of previous year ..	.....	203 3 6	.....	393 0 7	13 12 0	610 0 1	.....	.....	.....
...al to corresponding date of ...revious year	5,301,400½	58,81,716 15 3	4,02,91,999 30	1,03,92,032 10 6	3,63,362 12 5	1,66,37,112 6 2	1,444,292	1,766,230	3,210,532

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

...ceipts for week ending 30th November 1889.			Receipts for week ending 29th November 1890.			Total receipts from 1st April 1889 to 30th November 1889.			Total receipts from 1st April 1890 to 29th November 1890.			Total increase in 1890.	Total decrease in 1890.
...lean ...leage ...rked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
...,525½	9,30,563	610	1,525½	9,65,038	633	1,525½	2,86,03,964	537	1,525½	2,87,87,967	501	.....	18,[illegible],927

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,681	*12,529 11 0	48,455 20	3,145 6 0	38 4 0	15,713 5 0	1,943	793	2,736
Or per mile of railway	414	219 0 10	847 10	54 15 10	0 10 8	274 11 4	.....	.....	.....
For previous 21 weeks of half-year	265,111	1,55,284 1 0	7,24,026 30	47,741 7 0	685 9 0	2,03,691 1 0	29,414½	11,349	40,763½
Total for 22 weeks ...	288,792	1,67,793 12 0	7,72,482 10	50,886 13 0	723 13 0	2,19,404 6 0	31,357½	12,142	43,499½
Comparison.									
Total for corresponding week of previous year	11,218	5,927 5 0	34,294 0	2,382 2 0	55 4 0	8,364 11 0	1,620	574	2,194
Per mile of railway corresponding week of previous year ...	196	103 10 0	599 30	41 10 4	0 15 5	146 3 9	.....	.....	.....
Total to corresponding date of previous year	306,435½	1,71,434 6 11	9,97,245 20	50,188 6 0	1,552 1 0	2,23,174 13 11	34,302	16,122	50,424

* The increase due to Sonepore Fair and an eclipse of the moon.

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 30th November 1889.			Receipts for week ending 29th November 1890.			Total receipts from 1st April 1889 to 30th November 1889.			Total receipts from 1st April 1890 to 29th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	8,365	146	57½	15,713	275	57½	3,37,171	168	57½	3,48,364	174	11,193	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,126	5,006 15 0	11,213 30	485 12 0	7 0 0	5,499 11 0	889	79	968
Or per mile of railway	.....	225 0 6	.....	21 13 4	0 5 0	247 2 10	.....	.....	.....
For previous 21 weeks of half-year	346,714	84,596 9 0	1,45,152 20	5,325 8 0	122 6 0	90,044 7 0	18,987	1,031	19,998
Total for 22 weeks ...	361,830	89,603 8 0	1,56,366 10	5,811 4 0	129 6 0	95,544 2 0	19,356	1,110	20,966
Comparison.									
Total for corresponding week of previous year	18,693	4,702 1 8	27,927 20	580 14 0	5 10 0	5,288 9 8	896	154	1,050
Per mile of railway corresponding week of previous year ...	.....	211 5 3	.....	26 1 8	0 4 1	237 11 0	.....	.....	.....
Total to corresponding date of previous year	392,176	95,887 12 5	2,23,868 10	5,920 6 0	130 1 9	1,01,938 4 2	20,197	1,678	21,875

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 30th November 1889.			Receipts for week ending 29th November 1890.			Total receipts from 1st April 1889 to 30th November 1889.			Total receipts from 1st April 1890 to 29th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,139	228	22½	5,500	247	22½	1,84,576	237	22½	1,80,594	232	.....	3,982

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 22nd November 1890, on 763 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	a160,824	80,770 0 0	6,54,804 0	1,78,660 0 0	19,350 0 0	2,78,780 0 0	23,898	35,079	58,967
Or per mile of railway	211	106 0 0	858 0	234 0 0	†2 0 0	343 0 0	.....	.....	.....
For previous 20 weeks of half-year	2,750,649	12,14,466 0 0	1,18,95,611 0	30,14,102 0 0	3,26,146 0 0	*45,54,714 0 0	430,499	665,966	1,096,465
Total for 21 weeks ...	2,911,473	12,95,236 0 0	1,25,50,415 0	31,92,762 0 0	3,45,496 0 0	48,33,494 0 0	454,397	701,045	1,155,432
COMPARISON.									
Total for corresponding week of previous year	127,531	67,782 0 0	6,58,665 0	1,85,248 0 0	18,590 0 0	2,71,620 0 0	22,245	35,341	57,586
Per mile of railway corresponding period of previous year ...	171	91 0 0	882 0	248 0 0	†1 0 0	340 0 0	.....	.....	.....
Total to corresponding date of previous year	2,989,504	13,50,613 0 0	1,31,33,732 0	33,67,462 0 0	3,66,506 0 0	49,84,581 0 0	473,732	674,301	1,148,033

* Audited up to week ending 4th October 1890.
† Excluding steamer earnings.
a Due to Pingerapole mella at Sodepur.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 23rd November 1889.			Receipts for week ending 22nd November 1890.			Total receipts from 1st April 1889 to 23rd November 1889.			Total receipts from 1st April 1890 to 22nd November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,71,020	364	763	2,78,780	365	716	71,20,023	293	760	*72,16,152	279	96,129	.....

* Audited up to week ending 4th October 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,467	12,220 0 0	35,912 0	3,040 0 0	1,100 0 0	16,360 0 0	3,718	1,992	5,710
Or per mile of railway	220	98 0 0	287 0	24 0 0	9 0 0	131 0 0	.....	.....	.....
For previous 20 weeks of half-year	499,355	1,63,222 0 0	8,27,897 0	67,176 0 0	3,387 0 0	*2,33,785 0 0	71,672	40,860	112,532
Total for 21 weeks ...	526,822	1,75,442 0 0	8,63,809 0	70,216 0 0	4,487 0 0	2,50,145 0 0	75,390	42,852	118,242
COMPARISON.									
Total for corresponding week of previous year	23,931	8,526 0 0	29,943 0	1,945 0 0	34 0 0	10,505 0 0	3,587	2,085	5,672
Per mile of railway corresponding period of previous year ...	191	68 0 0	239 0	16 0 0	.....	84 0 0	.....	.....	.....
Total to corresponding date of previous year	573,906	1,96,007 0 0	12,24,083 0	1,13,455 0 0	3,525 0 0	3,14,937 0 0	74,336	51,188	125,544

* Audited up to week ending 4th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 23rd November 1889.			Receipts for week ending 22nd November 1890.			Total receipts from 1st April 1889 to 23rd November 1889.			Total receipts from 1st April 1890 to 22nd November 1890.			Total increase in 1890.	Total decrease in 1890
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	10,505	84	125	16,360	131	125	4,94,858	116	125	*4,15,594	98	.....	79,240

* Audited up to week ending 4th October 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	18,804	6,730 0 0	85,733 0	3,590 0 0	100 0 0	10,420 0 0	2,700	953	3,653
Or per mile of railway	219	78 0 0	415 0	42 0 0	1 0 0	121 0 0	.....	.....	.....
For previous 20 weeks of half-year	296,782	96,453 0 0	3,98,673 0	37,055 0 0	5,341 0 0	*1,38,849 0 0	47,601	14,151	61,752
Total for 21 weeks ...	315,586	1,03,183 0 0	4,84,406 0	40,645 0 0	5,441 0 0	1,49,269 0 0	50,301	15,104	65,405
Comparison.									
Total for corresponding week of previous year	17,033	5,716 0 0	89,517 0	3,772 0 0	131 0 0	9,619 0 0	2,518	928	3,446
Per mile of railway corresponding period of previous year	198	66 0 0	459 0	44 0 0	2 0 0	112 0 0	.....	.....	.....
Total to corresponding date of previous year	318,150	1,02,199 0 0	5,08,723 0	42,709 0 0	4,270 0 0	1,49,178 0 0	52,287	19,647	71,934

* Audited up to week ending 4th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 23rd November 1889.			Receipts for week ending 22nd November 1890.			Total receipts from 1st April 1889 to 23rd November 1889.			Total receipts from 1st April 1890 to 22nd November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	9,619	112	86	10,420	121	86	2,23,467	76	86	*2,31,130	79	7,673	.....

* Audited up to week ending 4th October 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 27½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,235	1,370 0 0	9,685 0	550 0 0	20 0 0	1,940 0 0	500	250	750
Or per mile of railway ...	118	50 0 0	355 0	20 0 0	1 0 0	71 0 0	.....	.....	.....
For previous 20 weeks of half-year	57,609	20,605 0 0	2,06,485 0	10,951 0 0	333 0 0	*31,889 0 0	10,752	6,554	17,306
Total for 21 weeks ...	60,834	21,975 0 0	2,16,170 0	11,501 0 0	353 0 0	33,829 0 0	11,252	6,804	18,056
Comparison.									
Total for corresponding week of previous year	3,062	1,168 0 0	8,342 0	566 0 0	319 0 0	2,053 0 0	586	340	926
Per mile of railway corresponding period of previous year ...	112	43 0 0	306 0	21 0 0	11 0 0	75 0 0	.....	.....	.....
Total to corresponding date of previous year	65,178	23,826 0 0	1,80,733 0	11,942 0 0	1,735 0 0	37,503 0 0	12,156	7,367	19,523

* Audited up to week ending 4th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 23rd November 1889.			Receipts for week ending 22nd November 1890.			Total receipts from 1st April 1889 to 23rd November 1889.			Total receipts from 1st April 1890 to 22nd November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,053	75	27½	1,940	71	27½	65,082	68	27½	*89,831	66	.....	3,251

* Audited up to week ending 4th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 22nd November 1890, on 699 miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week ...	85,000	34,760	3,44,100	54,400	9,150	98,310	12,640	14,704	(a)27,344
Per mile of railway	121·60	49·73	492·27	77·82	13·09	140·64	.....	.....	.....
For previous 19 weeks of half-year	1,430,620	5,58,029	52,03,954	6,66,590	1,35,457	13,60,076	241,012	236,597	477,609
Total for 20 weeks ...	1,515,620	5,92,789	56,38,054	7,20,990	*b* 1,44,607	14,58,386	253,652	251,301	504,953
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year, 649 miles open...	86,936	34,041	3,34,628	38,106	11,648	83,795	12,113	12,044	24,157
Per mile of corresponding week of previous year	133·95	52·45	515·61	58·71	17·95	129·11	.....	.....	.....
Total to corresponding date of previous year	1,679,995	6,34,731	55,53,985	6,34,041	1,70,638	14,40,310	239,140	261,105	500,245

b Steam-boat earnings for the week Rs. 8,300.
Ditto ditto to date ,, 1,13,010.
* Ajodhya bridge earnings for the week ,, 870.
Ditto ditto to date ,, 6,310.

Train mileage figures :—

	a Bengal & N.-W. Section. Rs.	Tirhoot Section. Rs.
Coaching ...	6,100	6,540
Goods ...	7,280	7,424
Total ...	13,380	13,964

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 22nd November 1890.			Receipts for week ending 23rd November 1889.			Total receipts from 1st April 1890 to 22nd November 1890.			Total receipts from 1st April 1889 to 23rd November 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
699	98,310	140·64	649	83,795	129·11	675	27,82,066	122·77	640	27,55,963	125·95	26,103	...

* Due to opening of Kanwa Ghat Extension from 14th November 1890.

N.B.—Earnings of B. and N.-W. Section.

	Week ended 22-11-90. Rs.	Week ended 23-11-89. Rs.
Coaching	15,040	16,423
Goods ...	21,530	15,258
Other earnings ...	5,450	3,719
Total ..	42,920	35,398

Earnings of Tirhoot Section.

	Week ended 22-11-90. Rs.	Week ended 23-11-89. Rs.
	18,920	17,618
	32,870	22,350
	3,700	7,929
	55,390	48,397

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SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, DECEMBER 17, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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ERRATUM.

The 12th December, 1890.—At page 2265, line 1, to the Supplement to the *Calcutta Gazette* of the 12th November, 1890, *for Rs.* 12,87,625 *read* 12,87,625.

P. NOLAN,
Secretary to the Govt. of Bengal.

Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

THE Council met at the Council Chamber on Saturday, the 13th December, 1890.

Present:

The HON'BLE SIR STEUART COLVIN BAYLEY, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, *presiding*.

The HON'BLE SIR CHARLES PAUL, K.C.I.E., *Advocate-General*.

The HON'BLE H. J. S. COTTON.

The HON'BLE P. NOLAN.

The HON'BLE T. T. ALLEN.

The HON'BLE SIR HENRY HARRISON, KT.

The HON'BLE SIR ALFRED CROFT, K.C.I.E.

The HON'BLE DR. MAHENDRA LAL SIRCAR, C.I.E.

The HON'BLE C. H. MOORE.

The HON'BLE SHAHZADA MAHOMMED FURROKH SHAH.

The HON'BLE DR. RASH BEHARI GHOSE.

The HON'BLE RAJA RAMESHWAR SING BAHADUR.

The HON'BLE A. H. WALLIS.

NEW MEMBERS.

The Hon'ble Messrs. Cotton and Wallis took their seats in Council.

COURSE OF LEGISLATION.

His Honour the President said:—"Gentlemen, I am afraid you will consider that I have called you here to-day rather under false pretences when the ostensible cause is, that I am going to make a statement regarding the course of legislation during the Session. But, as a matter of fact, the statement that I have to make is, regarding the absence of any legislative business.

"There is on the notice paper a motion in regard to a Bill to repeal certain obsolete enactments. The Government of India in their Legislative Council, in the words of Sir Andrew Scoble, were clearing away dead matter from the Statute Book, and they desired that a similar course should be taken by us in regard to the Bengal Statutes. The Hon'ble Mr. Allen has in hand and will move to-day for leave to introduce a Bill for that purpose, which will be proceeded with somewhat later after careful examination.

"Then there is another Bill which is on the anvil and which has been printed and is ready to be introduced. But, after some correspondence with the Secretary of State, we find that it will require certain alterations to be made, and it will probably take some little time. It is a Bill in connection with the amendment of the Court of Wards' Act.

"These are the only two Bills which I can say are at all ready to be laid before the Council at present.

"There is another Bill which has been printed and circulated and which some of the members may have seen in their capacity as members of the Associations consulted. It has reference to our Bengal Revenue Sale Law. It is a very important Bill and will require careful consideration. But the reports of all the bodies which have been consulted have not yet been received, and it will probably be some months before it will be ready to be laid before the Council.

"Beyond these Bills I have no work in hand that will require your attention. I am glad, however, of the opportunity of calling you together before my departure; first, that I might have the pleasure of introducing you to my successor, Sir Charles Elliott, and secondly, that I might express, before I go, my gratitude for the assistance you have given me, and my extreme satisfaction at the way in which business has always been conducted in this Council. It is a matter of great regret to me that I am leaving you, and that I shall have nothing more to say in this Council. The Presidency hereafter will devolve on my friend Sir Charles Elliott, and I am quite sure you will give him all the loyal assistance which you have given me in this Council."

OBSOLETE ENACTMENTS BILL.

The Hon'ble Mr. Allen moved for leave to introduce a Bill to repeal certain obsolete enactments and to amend certain other enactments.

He said:—"The Bill in question is a purely technical one, and I therefore can promise the Council that it will be without a particle of interest for any single member of it, unless it be the hon'ble jurist opposite, who may take the opportunity of favouring us with one of his exhaustive discourses on abstract principles. In fact, however, the Bill is nothing more or less than a waste-paper basket, in which it is desirable to collect some of the litter which still encumbers the Bengal Code. I have already seen the provisions of the Bill, and I do not think it can be better described than the waste-paper basket of the Bengal Council."

The Motion was put and agreed to.

The Council was adjourned for one month.

Calcutta;
The 15th December, 1890.

C. H. REILY,
Assistant Secretary to the Govt. of Bengal,
Legislative Department.

SONTHAL SETTLEMENTS.

REVENUE DEPARTMENT—LAND REVENUE.

Calcutta, the 15th December 1890.

RESOLUTION.

READ—

A letter No. 1899R, dated 31st October, 1890, from the Commissioner of the Bhagulpore Division and Sonthal Pergunnahs, with enclosures.

A letter No. 1680T—A, dated 6th December, 1890, from the Director of the Department of Land Records and Agriculture, Bengal, with enclosure.

A note on the proposed rules for settlement of rent in the Sonthal Pergunnahs by Mr. W. Mating Grant, a proprietor of land in that district.

When the settlement of certain private estates was initiated under the Sonthal Pergunnahs Settlement Regulation of 1872, it was originally assumed by the local officers that the rent could be most equitably fixed by applying the recorded village rates to the areas ascertained by the new measurement, but as the work proceeded this course was found to be impracticable. The Deputy Commissioner reported that an assessment framed on this principle would lead to excessive enhancements, injurious to the interests of the landlord as well as to those of the tenants. It, moreover, appeared that these rates had not been strictly enforced at the last settlement; that the measurements then made were very rough; and that the assessment of all newly cultivated land at full rates could not be reconciled with section 21 of the Regulation, which requires the Settlement Officer in any case in which the tenant has reclaimed waste to regard that fact in settling the rents. In view of these considerations, the Commissioner has requested Government to issue instructions for the guidance of Settlement Officers in fixing rents, and the following draft rules have been framed. They are now published for general criticism, and, if no objection to them is received, will be confirmed after the interval of one month.

The first of the draft rules merely draws attention to the fact, which in the correspondence has sometimes been overlooked, that the law requires the Settlement Officer to fix a fair rent in every case, either accepting the existing rent as having that character, or altering it to meet the circumstances as ascertained by the survey. The second is framed on the principle that existing rents must, in the absence of an alteration in area shown by the settlement itself, be assumed to be fair and equitable till the contrary is proved. Rule 3 has been prepared in communication with the local officers to indicate the margin of error which should ordinarily be allowed in view of the rough measurements made at the original settlement. It is not applicable where the particular lands formerly settled are demarcated or can be identified with certainty, so that the new cultivation is clearly distinguishable. Rule 4 embodies the existing practice for the assessment of new lands, which is in conformity with section 21 of the Regulation. The case of villages not previously measured is provided for in the fifth rule. Rule 6 embodies the principle accepted by the Bengal Tenancy Act for giving the landlord the benefit of improvements made by him. The limit imposed on enhancement by the seventh rule is considered necessary to prevent an excessive increase of rent in a district such as the Sonthal Pergunnahs.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

RULES.

1. A fair rent shall be settled FOR EVERY holding.

Method of settling fair rents.

2. Where the Settlement Officer has reason to believe that area rates were fixed at the last settlement, and that rentals were determined by the application of these rates to areas of holdings, ascertained by measurement, the rates then

fixed and rentals then ascertained shall ordinarily be held to be fair for the areas at that time in the raiyats' possession.

3. In determining what area was in each raiyat's possession at the time of the last settlement, the Settlement Officer shall have regard to the inaccuracies in the survey and in classification of soils then made, and to differences in areas which are due to the difference between the methods of survey then and that now adopted, and he shall allow a reasonable percentage on the old recorded areas (not ordinarily less than 15 or more than 25), which shall be determined by the Commissioner for each village or class of villages, on the grounds above specified. The difference between the areas of holdings as shown by the present and the former measurement, after the aforesaid allowance is made, shall be presumed until the contrary is proved to be "newly cultivated."

4. "Newly cultivated lands," as defined in the last preceding rule, shall be assessed at half the rates current in the village for lands of the class to which they belong.

Settlement of rents where rents were not based on application of rates to areas of holdings ascertained by survey at the last settlement.

5. Where the rentals of holdings were not determined by the application of rates to areas ascertained by measurement at the last settlement, the Settlement Officer shall now settle fair and equitable area rates, having regard to the considerations mentioned in sections 20 and 21 of Regulation III of 1872, and shall determine the rent of every holding by the application of these rates to the area of holdings resulting from survey.

General.

6. When the productive power of the land has been increased by an improvement effected by the landlord during the currency of the present settlement, the rent may be increased on that account, and in such cases the Settlement Officer in determining the amount of the enhancement shall have regard to—

(i) the increase in the productive powers of the land caused, or likely to be caused, by the improvement,
(ii) the cost of the improvement,
(iii) the cost of the cultivation required for utilizing the improvement, and
(iv) the existing rent and the ability of the land to bear a higher rent.

7. The aggregate full rental of any village shall not exceed by more than 50 per cent. the rental fixed at the last settlement, and the increase in rental up to this maximum may, in the discretion of the Settlement Officer, be made progressive.

8. The rents now settled shall remain unchanged for 15 years.

9. An appeal shall lie from orders of the Settlement Officer under these rules to the Deputy Commissioner, and when the Deputy Commissioner's order differs from that of the Settlement Officer, an appeal shall lie from the Deputy Commissioner to the Commissioner, provided that an appeal on questions regarding rates shall lie in every case from the Deputy Commissioner to the Commissioner.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 13th December 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
BURDWAN DIVN. 1	Burdwan Dec. 13, '90	Nil	Weather—seasonable and cloudy. Harvesting of *amun* going on. Sugarcane doing well. Locusts appeared on the 7th in parts of the district and did some injury to *rubbi* crops Prices of common rice :— Srs. Sudder ... ... 18½ Culna ... ... 17 Cutwa ... ... 18⅛ Ranigunge ... ... 16¾ } per rupee.
2	Bankoora ,, 13, '90	Nil	Weather—cloudy and cold. *Amun* harvest continues. *Til* is being reaped. Injury to *rubbi* crops by locusts considered as a whole is not much, but these have been completely destroyed where they alighted. Sugarcane is thriving. Common rice is selling at 20 seers per rupee at Sudder and 21 seers at Bishenpore.
3	Birbhum ,, 13, '90	Nil	Sky seems to threaten rain. Crops are being fast gathered in. Price of common rice ranges from 18 to 24 seers per rupee.
4	Midnapur ,, 13, '90	Nil	Weather—seasonable, but a little warm at noon. Paddy crop is being harvested. *Rubbi* and indigo crops doing well. Prices of common rice :— Srs. Sudder ... ... 18 Tumlook ... ... 16 Contai ... ... 18 Ghatal ... ... 16 } per rupee.
5	Hooghly ,, 13, '90	Nil	Weather—cloudy and warm. *Amun* is being harvested with prospect of good outturn. *Rubbi* sowings almost completed. Locusts left the district without doing any damage. Prices of common rice:— Srs. Sudder ... ... 14 Serampore ... ... 14 Jehanabad .. .. 16½ } per rupee.
6	Howrah ,, 13, '90	Nil	Weather—seasonable. *Amun* crop is being reaped. Prospects of harvest good. Price of common rice about 15 seers per rupee.
	Central Districts.		
PRESIDENCY DIVN. 7	24-Perghs. Dec. 16, '90	Nil	Weather—seasonable. Prospects of all crops favourable. Harvesting of *amun* in progress. Sowing of winter crops nearly finished. Prices stationary.
8	Nuddea ,, 13, '90	Nil	Weather—a little cloudy. Harvesting of *amun* rice nearly finished. Winter crops doing well.
9	Khoolna ,, 13, '90	Nil	Weather—seasonable. Harvesting of *amun* going on. Prospects favourable except in flooded area.
10	Jessore ,, 13, '90	Nil	Weather—cool and cloudy in the latter part of the week. *Amun* is being harvested. Sowing of winter crops still going on in places. Locusts appeared in all subdivisions and did some injury to the standing crops. Price of rice stationary.
11	Moorshedabad ,, 13, '90	Nil	Weather—getting cool. *Amun* is being harvested. Prospects of *rubbi* favourable.
RAJSHAHYE DIVN. 12	Dinagepur ,, 13, '90	Nil	Weather—seasonable. Prospects of crops continue good. Price of rice both at Sudder and Thakurgaon 18 seers per rupee.
13	Rajshahye ,, 13, '90	Nil	Weather—seasonable. Rice is being harvested with a fair outturn. Prospects of other crops good.
14	Rangpur ,, 13, '90	Nil	Weather—cloudy with morning fogs. *Amun* is being cut. Mustard is in flower. Prospects generally good.
15	Bogra ,, 13, '90	Nil	Weather—seasonable. State and prospects of crops good. Winter rice is being reaped, and sugarcane is being cut. Sowing of *rubbi* crops still going on. Common rice selling at 14½ seers per rupee.
16	Pubna ,, 13, '90	Nil	Weather—seasonable. Prospects of crops continue satisfactory. Harvesting of *amun* still continues. Prices slightly lower.
17	Darjeeling ,, 13, '90	Nil	Weather—cold and misty. Winter rice is still being harvested. Potatoes, mustard, and tobacco doing well. Prospects good.
18	Julpigoree ,, 13, '90	Nil	Weather—seasonable and cloudy at times. Harvesting of *Aoismanti* paddy in progress. Prospects of mustard and tobacco good. Common rice selling at 14 seers per rupee.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 19	Dacca Dec. 13, '90	Nil	Weather—seasonable. Harvesting of *amun* going on. Mustard, *mung*, *maskalai*, and *khesari* thriving. Common rice sold at from 14 to 18 seers per rupee.
20	Furreedpur „ 13, '90	Nil	Weather—seasonable. Harvesting of *amun* paddy continues. State of winter crops fair. Common rice selling at from 12 to 16 seers per rupee.
21	Backergunge „ 13, '90	Nil	Weather—cool with foggy mornings. Prospects of crops good. Harvesting of *amun* going on. Common rice selling at from 14 to 15 seers per rupee.
22	Mymensingh „ 13, '90	Nil	Weather—cold. Harvesting of *amun* paddy progressing; outturn expected to be 18 annas. Coarse rice sells at 16½ seers per rupee.
Chittagong Divn. 23	Chittagong „ 16, '90	0·33	Weather—seasonable. Cultivation of vegetable crop and harvesting of early winter rice nearly over. State and prospects of *amun* very good. Prices unchanged.
24	Noakholly „ 13, '90	Nil	Weather—seasonable. *Amun* crop is being harvested. *Rubbi* crops progressing. Price of rice stationary.
25	Tipperah „ 13, '90	Nil	Weather—cold and clear. *Amun* rice is being cut. Cold-weather crops prospering.
26	Chittagong Hill Tracts. „ 11, '90	Nil	Weather—cold with foggy mornings throughout the week. Cloudy to-day (11th). Gathering of cotton continues. Harvesting of late rice crop going on. Mustard in flower. Tobacco, chillies, and other cold-weather crops progressing. Common rice is being sold at 11 seers 6¼ chittacks per rupee.
BEHAR.			
Patna Divn. 27	Patna „ 13, '90	Nil	Weather—cold. Harvesting of paddy and *jowar* going on. *Rubbi* crops look flourishing. A few showers of rain will be beneficial to them. Prospects of poppy continue good. Prices of food-grains show a tendency to fall.
28	Gya „ 13, '90	Nil	Weather—cold. Paddy harvest going on. Prospects of *rubbi* and poppy favourable. Prices of food-grains low.
29	Shahabad „ 13, '90	Nil	Weather—cool with light west winds. Paddy still being harvested. Prospects of *rubbi* good. Prices stationary.
30	Durbhunga „ 13, '90	Nil	Weather—cool with light west winds. Harvesting of paddy in progress; outturn in Madhubani subdivision estimated at 14 annas. Prospects of poppy and *rubbi* very favourable. Common rice selling at from 14 to 18 seers per rupee.
31	Muzufferpur „ 13, '90	Nil	Weather—seasonable: cold. Prospects of all standing crops continue good. Harvesting of rice going on. Weather very favourable for poppy.
32	Sarun „ 13, '90	Nil	Weather—seasonable. Harvesting of paddy in full swing. Prospects of *rubbi* and poppy continue excellent. Prices falling.
33	Chumparun „ 13, '90	Nil	Cold has increased with west wind which prevailed in the middle of the week. *Rubbi* and poppy sowings almost over; the latter crop is being irrigated in some places. Harvesting of paddy is progressing.
Bhagulpore Divn. 34	Monghyr „ 13, '90	Nil	Weather—seasonable; getting colder with light west wind. Harvesting of winter rice going on. Prospects of *rubbi* and poppy continue favourable.
35	Bhagulpore „ 13, '90	Nil	Weather—seasonable. Harvesting of rice crop progressing fairly. Prospects of *rubbi* good.
36	Purneah „ 13, '90	Nil	Weather—much colder now. *Aghani* still being harvested. *Rubbi* crops doing well.
37	Maldah „ 13, '90	Nil	Weather—seasonable. Harvesting of *amun* paddy continues. *Kalai* is being gathered in some places. State of all other standing crops favourable. *Boro* seedlings are thriving. Prices of common rice falling owing to the new crop finding its way in the market.
38	Sonthal Perghs. „ 13, 90	Nil	Weather—cool with west wind. Harvesting of rice in full progress with good outturn. *Rubbi* promising well.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.				
Orissa Divn.	39	Cuttack Dec. 13, '90	Nil	Weather—dry and cool. Harvesting of *guru sarad* has just commenced in the Banki subdivision. *Rubbi* doing well.
	40	Pooree „ 11, '90	Nil	Weather—hot. *Sarad* crop is being harvested. *Dalua* crop is being sown. *Rubbi* doing well. Price of common rice from 21 to 28 seers per rupee.
	41	Balasore „ 13, '90	Nil	Weather—warm for the time of year. Harvesting of winter rice drawing to a close. *Biri, mung,* and mustard promise well.
CHOTA NAGPORE.				
		South-West Frontier Agency.		
Chota Nagpore Divn.	42	Hazaribagh Dec. 13, '90	Nil	Weather—cold and occasionally cloudy. Harvesting of paddy continues; a 16-anna crop expected almost everywhere in the district. Prospects of *rubbi* and poppy crops continue favourable. Prices stationary.
	43	Lohardugga „ 13, '90	Nil	Weather—a little cloudy. Harvesting of winter rice continues. Rain still badly wanted for *rubbi* crops.
	44	Singbhoom „ 18, '90	0·20	Weather—warm for the season of the year. Slight rain on the 11th. Harvesting of the paddy crop continues with good outturn. Winter crops are in excellent condition. Prices stationary.
	45	Manbhoom „ 13, '90	Nil	Weather—seasonable, but mornings are generally cloudy. Harvesting of winter rice continues with excellent results. Prospects of *rubbi* crops good. Very slight damage done to *rubbi* crops by locusts. Coarse rice selling at from 20 to 26 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 16th December, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

Names of Marts	Stock in hand as compiled on—												
	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.	1st week of August 1890.	1st week of Sept. 1890.	1st week of Oct. 1890	1st week of Nov. 1890.	1st week of Dec. 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Baliaghatta	2,96,500	3,00,000	5,48,000	9,31,100	15,22,500	10,94,000	9,85,500	7,54,000	6,42,000	5,41,000	4,10,000	3,58,500	3,14,000
Goltadanga	55,400	63,400	83,900	1,62,500	1,13,500	86,600	84,700	74,900	67,800	73,300	65,800	70,400	64,200
Chitpore, Golabaree, Coomertooly, Hatkhola, and Cuipy Ghat.	5,86,000	6,00,400	5,98,900	5,83,800	5,91,600	5,37,800	4,79,200	4,96,100	5,10,500	6,07,500	6,45,100	6,29,700	5,70,250
Paikpara, Posta, and Jorabagan.	3,000	4,000	5,000	4,000	3,000	4,000	3,500	4,000	3,000	4,000	5,000	4,700	5,000
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	68,100	82,750	98,100	1,21,500	1,26,550	1,32,900	1,19,450	1,04,700	96,000	94,200	1,09,200	1,15,700	96,650
21 Minor Bazars (estimated) ...	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 3,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Bhuddreswar, and Chandernagore.	14,080	28,425	19,606	33,469	31,225	19,369	22,762	45,879	55,887	45,431	47,075	33,012	35,750
Total ...	15,13,080	15,68,975	18,43,506	22,66,369	28,77,375	23,64,669	21,85,112	19,69,579	18,65,187	18,55,431	17,67,175	17,03,012	15,75,850
On Railway premises on both sides of the river.	6,677 (on 3rd Dec. 1889.)	28,007 (on 3rd Jan. 1890.)	26,935 (on 3rd Feb. 1890.)	47,988 (on 3rd Mar. 1890.)	24,996 (on 3rd Apl. 1890.)	24,633 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,533 (on 3rd July 1890.)	2,371 (on 3rd August 1890.)	13,884 (on 3rd Sept. 1890.)	11,155 (on 3rd October 1890.)	16,544 (on 3rd Nov. 1890.)	23,576 (on 3rd Dec. 1890.)
On boats unloaded ... By Port Commissioners' returns.	20,650 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb. 1890.)	56,599 (1st to 3rd Mar. 1890.)	37,745 (1st to 3rd Apl. 1890.)	30,197 (1st to 3rd May 1890.)	24,756 (1st to 3rd June 1890.)	23,351 (1st to 3rd July 1890.)	54,778 (1st to 3rd August 1890.)	27,167 (1st to 3rd Sept. 1890.)	32,365 (1st to 3rd October 1890.)	25,445 (1st to 3rd Nov. 1890.)	34,878 (1st to 3rd Dec. 1890.)
By Canal returns	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	58,619 (1st to 3rd Apl. 1890.)	23,975 (1st to 3rd May 1890.)	23,957 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)	18,546 (1st to 3rd August 1890.)	32,466 (1st to 3rd Sept. 1890.)	23,494 (1st to 3rd October 1890.)	30,008 (1st to 3rd Nov. 1890.)	25,941 (1st to 3rd Dec. 1890.)
Grand total of Stocks ...	15,49,242	17,90,438	21,81,281	25,05,503	29,98,735	24,43,474	22,45,752	20,30,851	19,40,862	19,28,998	18,34,189	17,74,909	16,60,245
Probable stock available for exportation by sea.	5 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs	14 lakhs	12 lakhs	9½ lakhs	9 lakhs	8¼ lakhs	7½ lakhs	7½ lakhs	6 lakhs

Statistical Department,
The 13th December, 1890.

P. Nolan,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 7th to 13th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature.				Hygrometry.				Wind.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Dec.	7th	133·3	9·2	29·965	68·2	80·1	22·3	57·8	62·5	0·493	58·6	74	Calm and variable ..	25	Nil	Clear, ≏.
,,	8th	132·8	9·0	·987	68·8	80·8	22·5	58·3	63·7	·524	60 2	76	W and calm ...	30	,,	Chiefly clear, ≏, =.
,,	9th	133·9	9·3	·972	69 9	81·2	22 3	58 9	65·4	·570	62·6	79	Calm and variable...	19	,,	Chiefly clear, ≏.
,,	10th	143·4	8·7	·927	73·2	83·5	18·6	64·9	69·4	·669	67·3	83	SW, calm and variable.	34	,,	Chiefly clear, ≏, =.
,,	11th	131·0	9·0	·920	73·1	80 8	14·5	66·3	67·8	·613	64·7	77	NNE, calm and variable.	28	,,	Partially cloudy, o, ≏.
,,	12th	131·1	8·9	·974	70·0	79·2	15·9	62·3	63·4	·498	58·8	69	ENE and calm ...	27	,,	Chiefly clear, ≏.
,,	13th	133·2	7·0	·945	66·7	78·5	19·8	58·7	63·1	·531	60·6	81	Calm and variable ...	35	0·03	Partially cloudy, ≏, d.

	Inches.
The mean pressure of the seven days	29·956
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	30·024
	Hours.
The total number of hours of bright sunshine	61·1
The maximum possible number of hours of sunshine	75·2
	°
The mean temperature of the seven days	70·0
The average temperature of the corresponding period for 24 years, S.-G.'s Office	68·4
The extreme variation of temperature	25·7
The maximum temperature	83·5
	Miles.
The highest velocity of the wind in one hour	7
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	77
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	71
	Inches.
The total fall of rain from 7th to 13th December 1890	0·03
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·03
The total fall from 1st January to 13th December 1890	61·28
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	65·22

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

≏, dew; = fog; o, overcast; d, drizzling rain.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 15th December 1890.

Meteorological Report of the Province of Benga

Meteorological Division.	District.	Representative station.	Station Observations. Air Pressure. Mean barometric height, 8 A.M.	Air Pressure. Mean reduced to sea-level.	Air Pressure. Variation from mean.	Wind. Prevailing direction.	Wind. Mean wind velocity.	Temperature. Highest during week.	Temperature. Date.	Temperature. Lowest during week.	Temperature. Date.	Temperature. Mean maximum temperature.	Temperature. Mean minimum temperature of week.	Temperature. Mean daily temperature of week.	Temperature. Variation from normal mean of week.	Temperature. Mean, 8 A.M. temperatures.
Orissa.	Pooree	Pooree	30·010	30·023	—	N	195	84·7	12th Dec.	65·6	6 & 7 Dec.	83·0	68·7	75·9	—	71·1
		Gopalpore	30·012	30·034	—·009	NNW	216	85·2	10th ,,	65·4	7th ,,	81·0	68·0	73·5	+4·6	75·4
		False Point	30·007	30·029	—·031	NNW	151	84·9	12th ,,	58·5	6th ,,	83·2	63·0	73·1	+5·5	70·9
	Cuttack	Cuttack	29·959	30·043	—·015	Calm	20	80·4	10th ,,	66·8	6th ,,	86·8	64·4	75·6	+5·3	79·4
	Balasore	Balasore	29·983	30 044	—·022	South-Westerly	47	87·4	11th ,,	58·6	6 & 7 ,,	84·5	62·1	73 3	+7·0	68 0
South-West Bengal.	South-West Midnapore / South 24-Parganuahs	Saugor Island	30 005	30·032	—·025	Westerly	200	81·2	12th ,,	61·9	6th ,,	79 1	66 7	72·9	+4·2	71·4
	Midnapore	Midnapore	29·8·5	30 033	—·038	N	76	88·3	11th ,,	56·2	6th ,,	85·3	60 9	73 2	+5·8	65·7
	24-Pergunnahs / Howrah / Hooghly	Calcutta	30·005	30 028	—·033	Calm	24	83·5	11th ,,	56·8	6th ,,	80·6	60 7	70·7	+3·0	67·6
	Burdwan	Burdwan	29·942	30·047	—·025	Variable	26	85·1	11th ,,	57·4	7th ,,	82·4	60 5	71·4	+3·4	65·7
	Bankoora	Bankoora	29·702	30·021	—·040	W & Calm	49	86·6	11th ,,	58·2	8th ,,	83·4	60·4	71·9	+4·7	64 8
	Beerbhoom / West Burdwan	Ranegunge	29·700	30·050	—·024	NW & WNW	31	83·3	11th ,,	57·3	6th ,,	81·3	59 3	70·2	+3·7	64·7
	Moorshedabad	Berhampore	2 ·9.7	30·027	— 039	W, WSW	33	82·1	11th ,,	56·2	7th ,,	79·5	59·2	69 8	+1·7	63 4
	Nuddea	Krishnaghur	29 978	30·029	—·025	Variable	58	85·0	11th ,,	53·0	6th ,,	82·2	55·7	69·0	+2·1	65 4
	Jessore / Khoolna	Jessore	29·984	30 029	—·022	Calm	6	84·2	11th ,,	56·5	6th ,,	81·4	60·1	70·8	+2·3	66·6
East Bengal.	Chittagong	Chittagong	29 947	30 041	+·005	Westerly	43	81·2	11th ,,	55·0	6th ,,	78 6	62·1	70 4	+1·1	64·3
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	30·010	30·023	—·002	Calm	33	81·8	11th Dec.	57·1	6th ,,	79·9	60·6	70·3	+2·8	67 3
	Noakholly	Noakholly	29·989*	30·031*	+·007*	Variable	1 20?	82·0	12th ,,	55 5	6 & 7 ,,	79·2	59·0	69·9	+2·3	68·3
	Furreedpore	Furreedpore	29 995	30·037	—·001	Calm	23	82·0	11th ,,	57·8	6th ,,	75 3	59 6	67 5	+1·2	65 5
	Dacca	Dacca	29·993	30·017	—·020	Variable	54	81·1	11th ,,	58·3	7 & 12 ,,	79·3	60·4	69·9	+0·3	63 7
	Commillah	Commillah	29 999	30·036	+·001?	E	20	81·4	10th ,,	55·0	6th ,,	79·4	58·0	68·7	+1·7	66·6
	Mymensingh	Mymensingh	29 971	30 032	—·005	ENE	49	79·5	11th ,,	54·1	12th ,,	76 5	58 1	67 3	+1 5	62 3
North Bengal.	Bogra	Bogra	29·931	29 998	—·020	NE	35	79·3	11th ,,	51·5	12th ,,	77·4	56·0	66·7	+0·3	60·5
	Pubna	Serajgunge	29·967	30·016	—·026	South-Westerly	17	81·0	11th ,,	53·6	12th ,,	78·7	56·4	67 6	+1·6	63·0
	Rajshahye	Rampore Boaulean	29 945	30·018	—·023	Variable	21	70 4	11th ,,	53 7	12th ,,	77·7	57·8	67·8	+2 9	64·2
	Maldah	Maldah	29·950	30 036	—	SW	75	80·0	11th ,,	50·2	12th ,,	78·5	55·5	67·0	—	63·1
	Dinagepore	Dinagepore	29·901*	30·028*	—·040*	Variable	?	70·1	11th ,,	49·7	12th ,,	77 2	55·2	66·2	+1·4	61·3
	Rungpore	Rungpore	29·908	30·049	—0·3	E	22	78 6	11th ,,	49·8	12th ,,	76 9	55·7	66 3	+1·5	60 8
	Julpigoree / Cooch Behar	Julpigoree	30·721	30·024	—·046	?	46	76·4	9 & 11 ,,	53 1	11 & 12 ,,	75·3	55·8	65·6	+0·8	61·3
	Darjeeling Hill Tracts	Darjeeling	28·965	—	—·066	Calm	93	60 1	11th ,,	35·8	11th ,,	47·2	37·1	42·2	—2·5	40·7
North Behar.	Purneah / North Bhagulpore	Purneah	29 893	30·029	—·041	Calm	52	78·7	11th ,,	49·0	12th ,,	76 9	54·0	65·5	+0·5	59·5
	Mozufferpore	Mozufferpore	29·839	30·021	—	WSW	72	78·4	10 & 11 ,,	54·3	7th? ,,	76·7	55·6*	66·4*	—	59·3
	Durbhunga	Durbhunga	29·858	30·035	—·055	WSW	68	78·9	11th ,,	51·9	12th ,,	76·8	56·3	66·6	+0·9	62 3
	Chumparun	Motihari	29·799	30·039	—·030	Variable	132	78·2	10th ,,	46·9	12th ,,	76·8	51·8	64·4	+1·9	61·2
	Sarun	Chupra	29·817	30·022	—·040	Calm	60	80·2	11th ,,	51·0	12th ,,	77 8	56·2	67·0	+4·4	60·2
North Behar.	Shahabad	Dehree	—	—	—	—	—	82 3	9, 10, 11 ,,	55·0	12th ,,	81·0	57·0	69·5	+6·1	65·5
		Buxar	—	—	—	S-Wly.	92	80·9	10th ,,	50·0	12th ,,	78·5	50·8	67·7	+4·2	62·0
		Arrah	29·829	30·022	—·039	S-Wly.	26	81·1	11th ,,	50·0	12th ,,	79·9	53·4	67·2	+4·4	61·5
South Behar.	Gya	Gya	29·954	30·054	—·044	S	110	82·4	10th ,,	53·8	12th ,,	80·6	58·0	69·3	+5·5	63·5
	Patna	Bankipore	29 847	30 041	—·059	Variable	67	79·7	11th ,,	50·4	12th ,,	77·4	56·3	66·9	+2·8	63 2
	South Bhagulpore / Monghyr	Bhagulpore	29·8·8*	30·030*	—·031*	Calm	22	81·1	11th ,,	53·0	12th ,,	78·1	50·5	67·8	+3·0	62·5
	Sonthal Pergunnah	Doomka	29·813	30·042	—·029	Calm	35	81·6	11th ,,	54·1	7th ,,	79·0	56·1	68·1	+4·2	62·5
Chutia Nagpur.	Hazaribagh	Hazaribagh	27 974	30·006	—·034	WNW	205	79·3	9 & 10 ,,	53·5	12th ,,	77·2	56·4	66·8	+3·2	63·7
	Lohardugga / Manbhoom	Ranchee	27·845	30 037	—·027	Northerly	131	80·9	10th ,,	51·4	12th ,,	77·5	56·0	66·8	+3·3	61·6
	Singbhoom	Chyebassa	29·893	30·007	— 006	Calm	22	83·2	11th ,,	54·3	6th ,,	84·7	59·5	72·1	+7·1	67·3

* Mean of six days.

Meteorological Division.—*Summary.*—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The constitution of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers given as normal means or average of the rainfall in that district are determined from the returns sent in by the sub-divisional station for the period in question during the past ten years. The means of the district are the numerical average of the returns divided by the number of stations. A rainy day is one on which at least [illegible] inch of rain fell.

he week ending Friday, the 12th of December 1890.

Meteorological Division.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	District Observations. Rainfall. Of week. Mean for district.	Of week. Normal mean.	Since 1st of Month. Mean for district.	Since 1st of Month. Normal mean.	Since 1st of Month. Variation.	Since 15th May 1890. Mean for district.	Since 15th May 1890. Normal mean.	Since 15th May 1890. Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.
Orissa.	0·4	Nil	Nil	0·45	Nil	0·60	—0·60	65 77	55·30	+10·47	0·0	0·4	Pooree	Pooree
	0·6	Nil											Gopalpore	
	1·6	Nil											False Point	
	1·3	0·04	Nil	0·27	Nil	0·39	—0·39	63·61	31·35	+12·29	0·0	0·3	Cuttack	Cuttack
	0	Nil	0·12	0·12	0·12	0·19	—0·07	61·38	52·81	+8 55	0·3	0·2	Balasore	Balasore
South-West Bengal.	2·6	0·07	0·02	0·13	0·02	0·28	—0·26	60·31	61·89	+4·42	0 3	0·2	Saugor Island	South-West Midnapore / South 24-Pergunnahs
	2·0	Nil	Nil	0·07	Nil	0·17	—0·17	50·09	5··39	—3·30	0·0	0·1	Midnapore	Midnapore
	0·9	Nil	Nil	0·00	Nil	0·22	—0·22	55 16	5··09	+4·07	0·0	0 1	Calcutta	24-Pergunnahs / Howrah / Hooghly
	1·6	Nil	Nil	0·04	Nil	0·13	—0·13	61·41	46 26	+15·15	0·0	0·1	Burdwan	Burdwan
	2·7	Nil	Nil	0·01	Nil	0·14	—0·14	52·02	53 07	—0·05	0·0	0·1	Bankoora	Bankoora
	0·7	Nil	Nil	0·03	Nil	0·10	—0·10	63 93	51·71	+12·22	0·0	0·1	Ranegunge	Beerbhoom / West Burdwan
	2·7	Nil	Nil	0·05	Nil	0·11	—0·11	60·55	59 01	+1·54	0·0	0·1	Berhampore	Moorshedabad
	2 0	Nil	Nil	0·01	Nil	0·09	—0·09	55 03	48·72	+6 31	0·0	0 1	Krishnaghur	Nuddea
	1·7	Nil	Nil	0·04	Nil	0·23	—0·23	55 51	52·22	+1 30	0·0	0·1	Jessore	Jessore / Khoolna
East Bengal.	1·4	0·38	0·39	0 25	0·39	0 47	—0·08	119·47	113·05	+6 42	1 0	0·2	Chittagong	Chittagong
			0·02	0 30	0·02	0·46	—0·44	73·34	80·24	—6·92	0·3	0·3	Demagiri	Chittagong Hill Tracts
	0	Nil	0·14	0 12	0 14	0 37	—0·23	64·30	75 15	—7·85	0 3	0·2	Barrisal	Backergunge
	6·9	0·02	Nil	0·42	Nil	0 77	—0 77	97·88	106·48	—8·60	0 0	0·3	Noakholly	Noakholly
	1·0	Nil	Nil	0·02	Nil	0·10	—0·10	45·42	54·97	—9 55	0·0	0 1	Furreedpore	Furreedpore
	5·9	Nil	Nil	0·08	Nil	0·21	—0·20	58 13	61·01	—1·85	0·0	0 1	Dacca	Dacca
	2 0	Nil	0·08	0·13	0·08	0·34	—0·24	60·19	68·02	—7·83	0·3	0 2	Commillah	Tipperah
	0·7	Nil	Nil	0·06	Nil	0·12	—0·12	75·85	68 52	+7·33	0·0	0 1	Mymensingh	Mymensingh
North Bengal.	0	Nil	Nil	0·04	Nil	0·12	—0·12	78·99	57·02	+21 97	0·0	0·1	Bogra	Bogra
	0·7	Nil	Nil	0·03	Nil	0·09	—0·09	54·95	52·89	+2·06	0 0	0 1	Serajgunge	Pubna
	0·9	Nil	Nil	0·02	Nil	0·11	—0·11	75·86	52·93	+22 94	0·0	0·1	Rampore Boaulean	Rajshahye
	0·9	Nil	Nil	0·02	Nil	0·07	—0·07	63·14	53·65	+9·49	0 0	0·1	Maldah	Maldah
	0	Nil	Nil	0·01	Nil	0·07	—0·07	63·14	56 38	+25·36	0 0	0·1	Dinagepore	Dinagepore
	0·1	Nil	Nil	0 04	Nil	0·13	—0 13	8·.74	56 38	+25·36	0 0	0·1	Dinagepore	Dinagepore
	0·0	Nil	Nil	0·07	Nil	0·09	—0·09	106·01	73·27	+33 34	0·0	0·2	Rungpore	Rungpore
	0	Nil	Nil	0·08	Nil	0·08	—0·08	154·51	109·08	+44·83	0·0	0·2	Julpigoree	Julpigoree / Cooch Behar
	7·0	Nil	0·05	0·04	0·09	0 05	+0·04	165·75	119·93	+45·82	0·7	0·2	Darjeeling	Darjeeling Hill Tracts
North Behar.	0·3	Nil	Nil	0·06	Nil	0·06	—0·06	80·67	58·11	+22·56	0·0	0·1	Purneah	Purneah / North Bhagulpore
	0·3	Nil	Nil	0·03	Nil	0 3	—0·03	52·57	42·79	+9·78	0·0	0·1	Mozufferpore	Mozufferpore
	0	Nil	Nil	0 05	Nil	0 03	—0 03	57·63	43·99	+13·64	0·2	0·1	Durbhunga	Durbhunga
	0	Nil	Nil	0·08	Nil	0·09	—0·09	68·47	45·98	+22·49	0·0	0·1	Motihari	Chumparun
	0·1	Nil	Nil	0·05	Nil	0·05	—0·05	53·00	41·91	+11·09	0·0	0·1	Chupra	Sarun
	2·1	Nil											Dehree	
South Behar.	1·1	Nil	Nil	0·12	Nil	0·13	—0·13	49·59	39·44	+10·15	0·0	0·3	Buxar	Shahabad
	1·0	Nil											Arrah	
	1·3	Nil	Nil	0·03	Nil	0·03	—0·03	50·93	40 84	+10·09	0·0	0·1	Gya	Gya
	0	Nil	Nil	0·03	Nil	0 03	—0·03	48·10	4··04	+7·46	0·0	0.1	Bankipore	Patna
	1·4	Nil	Nil	0·01	Nil	0·02	—0·02	53·25	42·86	+9·39	0 0	0·1	Bhagulpore	South Bhagulpore / Monghyr
Chutia Nagpur.	0	Nil	Nil	0·01	Nil	0·06	—0·06	63·05	50·33	+13·32	0·0	0·1	Doomka	Sonthal Pergunnahs
	1·3	Nil	Nil	0·01	Nil	0·03	—0·03	49·45	49··3	+0·22	0·0	0·1	Hazaribagh	Hazaribagh
	4·0	Nil	Nil	0·02	Nil	0·04	—0·04	47·01	47·45	—0·44	0·0	0·1	Ranchi	Lohardugga / Manbhoom
			Nil	0·05	Nil	0·10	—0·10	41·53	45·33	—3·80	0·0	0·1		
	2·6	0·20	0·20	0·10	0·20	0·19	+0·01	34·14	50 66	—16·52	1·0	0·2	Chyebassa	Singbhoom

Rainfall.—The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.

Cloud.—The cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional stations during the past ten years. The means of the district are the numerical average of the rainfall return received in the district, *i.e.*, from total rainfall at the sub-divisional stations during the past ten years. The means of the district are the numerical average of the returns divided by the number of stations.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of December 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 6th December.	Sunday, 7th December.	Monday, 8th December.	Tuesday, 9th December.	Wednesday, 10th December.	Thursday, 11th December.	Friday, 12th December.	Total number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa ..	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	69·97	50·88
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	65·16	56·04
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·69	61·85	49·91
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·73	66·10	64·14
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·96	?
		Satpara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·07	?
		Pipli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	75·90	?
	Cuttack ...	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	63·67	46·65
		Banki ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	66·09	48·17
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	62·14	53·88
		Kendrapara ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	53·15	52·94
		Jajpore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	53·15	52·70
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·19	?
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·15	?
	Balasore ...	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	52·06	52·82
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	0·38	1	0·38	0·38	0·19	53·23	51·13
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	60·84	50·73
		Balasore ..	.....	.....	.....	.....	.....	0·30	.....	1	0·30	0·30	0·32	64·13	57·33
		Jellasore ..	.....	.....	.....	.....	.....	0·05	.....	1	0·05	0·05	0·03	66·13	53·10
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	62·96	53·45
South-West Bengal.	Midnapore ...	Contai ...	.....	.....	.....	.....	.....	0·07	.....	1	0·07	0·07	0·33	67·73	60·88
		Saugor Island ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	69·13	66·73
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	57·90	50·92
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	47·47	48·03
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	44·61	53·80
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·29	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·23	?
	24-Pergunnahs	Diamond Harbour ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	62·13	57·73
		Canning Town ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·69	?
		Alipore Jail ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	61·96	54·84
		Barrackpore...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	50·91	48·83
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	56·34	51·03
		Baraset ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	54·84	49·27
		Buseerhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	58·67	54·22
	Howrah ..	Howrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	51·34	50·38
		Mohesreka ... (*Oolobersah*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	59·57	51·88
	Hooghly ..	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	54·30	49·63
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	52·05	47·63
		Jehanabad ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	51·57	54·57
	Burdwan ..	Culna ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	54·31	43·8
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	65·53	47·8
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	64·36	47·2
		Raneegunge ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	60·64	48·7
		Mankur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·21	?
	Bankoora ..	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	57·76	51·0
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	50·95	51·8
		Maliara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	59·28	48·2
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	40·06	56·5
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·97	?
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·94	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·11	?
		Gangajalghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·75	?
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·29	?
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·74	?
	Beerbhoom ..	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	62·28	53·1
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	60·31	53·7
		Rampore Haut	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	72·56	50·9
		Bolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·42	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·46	?
	Nuddea ...	Ranaghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	55·46	46·4
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	61·66	45·3
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	47·08	50·1
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	58·86	47·7
		Kooshtea ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	52·09	53·1
	Khoolna ..	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	57·61	55·1
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	62·51	60·1
		Khoolna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	53·86	54·1
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·02	?
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·78	?
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	51·45	45·1
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	59·49	53·1
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	54·16	52·1
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	43·44	46·1
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	46·66	51·1
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	64·89	49·1
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	69·27	50·1
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	63·67	49·1
		Asamgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	58·27	50·1
		Jungipore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	51·84	48·1
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	65·35	50·1
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil				
		Akhriguni ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·92	1
		Pathabari ...	.....	.....	.....	.....	.....	.....	.....			Nil	?		
East Bengal.	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	0·45	1	0·45	0·45	0·26	129·87	122
		Chittagong ...	.....	.....	.....	.....	.....	.....	0·33	1	0·33	0·33	0·07	110·03	98
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	113·85	
		Sandoway ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	81·41	
	Chittagong Hill Tracts.	Rangmati ...	.....	.....	.....	.....	.....	0·04	.....	1	0·04	0·04	0·13	68·36	53
		Banna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	77·71	73
	Backergunge ...	Patuakhally...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·46	79·91	83
		Perozepore ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	69·91	84
		Burrisal ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	65·76	84
		Bhola ...	.....	.....	.....	.....	.....	0·55	.....	1	0·55	0·65	0·45	68·94	81

tement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of December 1890—contd.

ological vision.	District.	Station.	Rainfall. Saturday, 6th December.	Sunday, 7th December.	Monday, 8th December.	Tuesday, 9th December.	Wednesday, 10th December.	Thursday, 11th December.	Friday, 12th December.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
BENGAL eald.		*Gourseddi*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·66	?
		Bauphal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73·26	?
	Noakholly	Noakholly	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·58	92·34	107·14
		Fenny	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·95	103·40	105·70
		Harishpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	160·51	?
		Ramganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·28	?
	Furreedpore	Madaripore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	41·91	55·15
		Furreedpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	49·45	57·37
		Goalundo	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	44·90	53·40
	Dacca	Munshigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	57·78	69·54
		Dacca	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	54·58	58·15
		Narainsunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	60·71	61·49
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	59·71	49·50
		Joydebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·26	?
	Hill Tipperah	Agartola	.....										0·36		61 00
	Tipperah	Comilla	.....	.....		.....	.....	.....	.....	Nil	Nil	Nil	0·43	67·24	75·37
		Chandpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0 34	56·78	74·02
		Brahmunberia	.....	.....	.....	.....	.....	0 30	.....	1	0·30	0·30	0·22	54·94	61·17
		Ramchandrapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·11	?
		Nasirnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·81	?
		Daudkandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	30·44	?
		Kasba	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·71	?
		Laksham	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·55	?
	Mymensingh	Kishoreganje	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	68·87	69·37
		Atia (*Tangail*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	56·02	54·94
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	78·05	73·50
		Jamalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	79·16	64·66
		Netrokona	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	90·54	80·53
		Subornakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·25	?
		Durgapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·07	?
		Shereporo Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·41	?
		Dewangani	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·90	?
NORTH BENGAL.	Pubna	Pubna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	46·08	53·45
		Serajgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	63·81	52·27
	Bogra	Sherepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	77·86	57·01
		Nowkullia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	66 79	53·87
		Bogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	79 92	60·51
		Panchbibi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	91·46	55·44
	Rajshahye	Beauleah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	72·29	52·49
		Nattore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	88·84	54·29
		Naogaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	66·15	52·18
		Lalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·88	?
		Mande	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·04	?
	Maldah	Maldah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	64·65	51·11
		Chanchal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	59·02	56·15
		Gajol	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	84·40	?
		Sibganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	02·66	?
	Dinagepore	Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	67·94	56 08
		Churamon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	80·28	58·19
		Raigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	92 75	57·70
		Dinagepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	86·80	63·59
		Balooghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	81·01	52·24
		Thakoorgaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	107·04	?
	Rungpore	Burwanigunge (*Gyabanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	123·00	62·13
		Rungpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	96·56	74 12
		Kurigram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	95·59	72·70
		Bagdogra (*Nilphamari*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	111·23	84·03
		Ulipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	97·52	?
	Julpigoree	Julpigoree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	156·26	116·79
		Alipore Dooar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	137·47	?
		Fallacotta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	140·30	?
		Debiganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	115·70	?
		Bhagatpore (Nagrakatta)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	128·95	94·88
	Cooch Behar	Dinhatta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	169 37	118·08
		Cooch Behar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	146 35	105·06
		Mekiligunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	171·61	118·02
		Mathabhanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	211·15	191·27
	Darjeeling Hill.	Buxa	0·01	.....	.....	0·01	0·19	.....	.....	3	0·21	0·29	0·02	178·39	102·33
		Silliguri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	0·11	150·24	107·39
		Darjeeling	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	123·00	77 39
		Kalimpong	.....	.....	0·15	0·16	.....	.....	.....	2	0·31	0·31	?	193·09	?
		Kurseong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	105·38	69·76
NORTH BEHAR	Purneah	Kissengunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	83·78	62 31
		Arrareah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	89·36	61·11
		Purneah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Gondwara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	100·45	?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	83·95	?
		Matiari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·55	?
		Kaliaganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	61 61	49 63
	North Bhagulpur	Maddupore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	68·21	47·80
		Scopool	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·30	?
		Pretabganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	31·70	49·44
	Durbhunga	Tajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	59·56	45·22
		Burbhunga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	62·01	44·26
		Rathbanni	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·58	?
		Rahera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·42	?
		Rosiara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	52·06	42·91
	Mozufferpore	Sitamarhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	58·13	44·73
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	48·00	43·32
		Hajipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	79·81	?
		Pare	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·79	?
		Mahna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·13	?
		Dinkar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·19	?
		Pupri	.....	.....	.....	.....	.....	.....	.....						

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 12th of December 1890—concld.

Meteorological Division.	District.	Station.	Rainfall. Saturday, 6th December.	Sunday, 7th December.	Monday, 8th December.	Tuesday, 9th December.	Wednesday, 10th December.	Thursday, 11th December.	Friday, 12th December.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
North Behar —concluded.	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	78·06	44·07
		Bettiah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	64·89	47·93
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Burhurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·36	?
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	52·67	42·51
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	59·84	43·14
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	48·27	40·04
South Behar	Shahabad	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	52·47	41·63
		Dehree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	53·14	39·58
		Bhabooah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	41·11	40·48
		Sasseram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	44·19	40·06
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	66·96	39·[illegible]
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·07	?
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	59·49	41·9[illegible]
		Gya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	60·04	41·8[illegible]
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	54·84	39·1[illegible]
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	53·35	40·2[illegible]
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·43	?
		Daudnagar...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·85	?
		Sherghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·81	?
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·60	?
		PakriBarawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil		54·24	
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	50·02	41·2
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	52·13	40·8
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	46·05	41·2
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	43·25	39·2
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	?
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	?
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....			Nil	0·01	44·29	39·[illegible]
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	51·84	45·[illegible]
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	60·22	42·[illegible]
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·44	?
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·76	?
	South Bhagulpore	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	59·77	41·[illegible]
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	42·11	43·[illegible]
		Kolgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·06	[illegible]
		Bongaon ...											?		[illegible]
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	56·86	51·[illegible]
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	59·75	43·[illegible]
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	74·16	54·[illegible]
		Nya Doomka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	74·32	54·[illegible]
		Deoghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	40·43	40·[illegible]
		Jamtara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	70·43	47·[illegible]
		Mohasama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·81	[illegible]
		Namhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	32·28	?
Chutta Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	55·35	46·[illegible]
		Hazaribagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	49·97	40·[illegible]
		Semtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·03	38·94	45·[illegible]
		Mahudi Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	43·02	48·[illegible]
		Jhoomra Hills ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	Nil	56·80	59·[illegible]
		Barhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	?
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·08	?
		Karagdeha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	57·34	?
		Ramghar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	?
	Lohardugga ...	Lohardugga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·01	53·10	49·[illegible]
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	43·57	51·[illegible]
		Palamow ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·02	44·27	42·[illegible]
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·85	?
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·62	?
		Hossinabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75	?
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·30	?
	Singbhoom ...	Chyebassa ...	.....	.....	.....	.....	.....	0·20	.....	1	0·20	0·20	0·19	34·14	30·[illegible]
		Chakradhar-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	24·85	?
		Ghatsilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·46	?
		Baharagora ...	.....	.....	.....	.....	.....	1·12	.....	1	1·12	1·12	?	52·05	?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	44·22	48·[illegible]
		Gobindpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	38·84	44·[illegible]
		Raghunath-pore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·26	[illegible]
		Barrabhoom	.....	.....	.....	.....	.....	0·07	.....	1	0·07	0·07	?	44·22	[illegible]
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64·71	[illegible]
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·18	[illegible]

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the retu[illegible] are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the 16th December* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 12TH OF DECEMBER 1890.

THE week commenced with conditions which were a little abnormal for the period; pressure was rather considerably in defect of the normal, particularly in North Bengal and Behar, where in some cases the defect almost equalled a tenth of an inch. Temperature was at the western and southern stations rather largely in excess, stations like Chupra and Dehree showing an excess in the mean temperature of nearly 7°. Winds were also much more strongly westerly than usual, and at some stations even south-westerly winds were reported. On the 7th pressure had risen generally, the rise being largest in Behar and North Bengal, while it was comparatively small in South and South-West Bengal. This was succeeded by a slight rise on the 8th which was fairly equal in all districts, while on the 9th a similar slight fall was recorded. On the 10th, however, another fall of pressure was recorded, which was largest in North Behar and North Bengal, and which over the whole of Bengal was moderately large except at the stations in the extreme south-east of the province and in the south of Orissa. Indeed, on this date a distinct area of low pressure was lying over Behar, part of North Bengal, and the western parts of Central and South-West Bengal. The winds blowing over Bengal showed distinctly the effect of this low-pressure area, and at the head of the Bay and at many of the inland stations also southerly winds set in, bringing up moderate amounts of moisture from the Bay. Temperature had also generally increased steadily, and in some cases rather rapidly, on the 7th, 8th, 9th, and 10th, the rise in the mean temperature on the latter date averaging about 2°, so that by the 10th temperature had become particularly high for the season. Indeed, at the western stations on this date the mean temperature was in excess of the normal by from 5° at Calcutta to about 11° at Ranchee and Chybassa, though at the eastern stations the excess temperatures were comparatively small. It will thus be seen on the 10th conditions were distinctly abnormal, and indeed rather disturbed. These disturbed conditions gave a few scattered local showers which were reported on the morning of the 11th from a few stations in South-West Bengal, East Bengal, and Chutia Nagpur, but the amounts were of little importance. On the 11th pressure had continued to fall at most stations, the fall being largest in North Bengal, and the area of low-pressure over this district on this day was very distinctly marked, and this was accompanied by a marked tendency for southerly winds at many stations. The excessive temperature also continued, and even increased at some stations, and it had also spread to a greater extent over the province than it had on the previous day; and at Calcutta, for instance, the mean temperature was 7·2° in excess of the normal, so that the disturbed conditions continued on the 11th. On the 12th, however, a very rapid rise of pressure had taken place, the rise at many stations considerably exceeding a tenth of an inch. Winds on this day became more northerly than they had been, and therefore more normal; and finally, temperature fell generally by amounts varying from 3° to 6°. Thus on the last day of the week conditions were rather rapidly reverting to their normal condition.

Pressure.—The general changes of pressure throughout the week have been already described. The mean pressure for the seven days has however, not been very far removed from the normal, and at most stations pressure has been in defect by amounts ranging up to a twentieth of an inch, the defects being naturally largest at the northern stations.

Temperature—Has been largely in excess, and for the whole province the mean excess has been between three and four degrees; the largest excess has been in Orissa and Chutia Nagpur, where it has equalled between five and six degrees. The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with their normal values for the same period. The variations, it will be seen, have been rather excessive both in the day and night temperatures.

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 12th of December 1890.

	Normal mean maximum temperature for the week ending 12th December.	Actual mean maximum temperature for the week ending 12th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 12th December.	Actual mean minimum temperature for the week ending 12th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 12th December.	Actual mean daily temperature for the week ending 12th December 1890.	Variation of actual mean from the normal.
Cuttack	82·1	86·8	+4·7	58·5	64·6	+5·9	70·3	75·2	+5·3
Calcutta	77 0	80 6	+3·6	58 5	60·7	+2 2	67·7	70·7	+3 0
Dacca	79 7	79·2	—0·5	59 3	60·4	+1 1	69·5	69·9	+0·4
Burdwan	78·4	82·4	+4·0	57 6	60·5	+2·9	68·0	71·4	+3·4
Patna	75 5	77·4	+1·9	52 6	56 3	+3 7	64 1	66·9	+2·8
Gya	76 7	80·6	+3 9	51 0	58·0	+7 0	63·9	69 3	+5 4
Purneah	77·7	75 9	—1·8	51 0	54 0	+3 0	64 4	64 9	+0·5
Hazaribagh	72 0	77 2	+5·2	51 2	56 4	+5 2	61·6	66·8	+5·2
Darjeeling	50·9	47 2	—3·7	38 2	37 1	—1 1	44·6	42·2	—2·4

Rainfall—Has been entirely confined to a few local stations and has been of little practical importance. In no case does the average fall in any large meteorological district amount to more than a few hundredths of an inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 12th of December 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	89·4	58·5	80·1	65·2	74·4	+5·6	0·05	0·26	—0·21	0·2	0·3	—0·1	0·05	0·36	63·32	52·99
South-West Bengal ...	88·3	53·0	81·7	60·3	71·0	+3·4	Nil	0·06	—0·06	0·0	0·1	—0·1	Nil	0·17	56·83	51·45
East Bengal	82·0	54·1	78·3	59·7	69·0	+1·6	0·06	0·14	—0·08	0·2	0·2	0	0·06	0·31	71·48	73·97
North Bengal	81·0	49·7	77·4	56·1	66·7	+1·4	Nil	0·05	—0·05	0·0	0·1	—0·1	Nil	0·10	95·09	68·94
North Behar	80·2	46·9	76·8	54·3	65·8	+1·9	Nil	0·05	—0·05	0·0	0·1	—0·1	Nil	0·05	64·38	48·03
South Behar	82·4	50·0	79·2	56·7	68·0	+4·3	Nil	0·04	—0·04	0·0	0·1	—0·1	Nil	0·05	54·66	43·24
Chutia Nagpur	80·0*	51·4*	77·4*	56·2*	66·8*	+5·7*	0·02	0·03	—0·01	0·1	0·1	0	0·02	0·06	46·02	48·35

* Observations not included.

Meteorological Office, Bengal;
The 9th December 1890.

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 7th to 13th December 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.				Hygrometry.					Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
December ..	7th ...	30·031	70·3	81·1	21·7	59·4	74·6	66·1	·529	60·5	61	Nil
,, ...	8th ...	·047	71·4	82·0	21·3	60·7	75·1	67·1	·558	62·1	64	...
,, ...	9th ...	·047	72·0	82·9	21·9	61·0	74·6	67·6	·583	63·3	68	...
,, ...	10th ...	29 999	75·5	84·9	18·8	66.1	77·6	67·1	·524	60·3	55	...
,, ...	11th ...	·987	74·6	81·9	14·6	67·3	77·1	68·1	·568	62·5	61	...
,, ...	12th ...	30 070	72·1	80·3	16·4	63·9	73·6	64·6	·490	58·4	59	...
,, ...	13th ...	·023	70·7	80·9	20·5	60·4	71·6	63·6	·483	58·0	62	...

		Inches.
The mean 10 A.M. pressure of the seven days		30·029
		°
The mean temperature of the seven days		72·4
The extreme variation of temperature		25·5
The maximum temperature		84·9
		%
The mean 10 A.M. relative humidity of the seven days		61
		Inches.
The total fall of rain from 7th to 13th December 1890		Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Lattle,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India;
The 15th December 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 29th November 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 29th November 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 26·5 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1·8 below the average rate of the corresponding week of the past five years, and is also below the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	28·3	26·8	30·7	27·8	27·7	28·3	26·5

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING— 8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	TOWNS.	WEEKS ENDING— 8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.
Burdwan	32·0	21·4	39·7	33·6	Naraingunj	115·9	74·5	37·3	91·1
Midnapore	17·0	15·5	23·2	26·3	Chittagong	14·1	16·4	9·4	4·7
Hughli and Chinsurah	27·9	32·8	44·3	24·6	Comillah	27·0	23·1	27·0	42·4
Serampore	30·3	55·0	43·2	33·1	Patna City	15·3	10·7	13·3	12·3
Utterpara	37·7	37·7	50·6	50·6	Gya	17·8	21·9	34·2	21·9
Howrah	33·8	28·1	36·1	31·5	Arrah	43·1	10·8	33·5	10·8
Bali	21·1	21·1	31·6	14·0	Mozufferpore	32·8	32·8	10·9	24·3
Krishnagar	18·9	13·2	11·4	9·5	Durbhanga	31·5	36·2	40·1	46·4
Ranaghat	12·0	24·0	12·0	6·0	Chupra	19·1	14·1	22·1	21·1
Santipore	15·8	19·3	24·5	22·8	Bhagulpore	50·7	37·1	25·4	40·7
Jessore	12·2	30·6	6·1	6·1	Monghyr	44·3	30·7	38·9	37·1
Rampore Beauleah	44·7	44·7	52·5	49·9	Purneah	27·7	6·9	10·4	17·3
Darjiling	14·8	44·5	29·6	44·5	Poori	27·3	14·7	14·7	12·6
Dacca	31·1	24·0	31·1	31·1	Total ...	28·9	24·2	27·6	26·5

It will be seen that last week the highest birth-rate was returned from Naraingunj (91·1) and the lowest from Chittagong (4·7).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 25·7 per 1,000 of the population. The rate of the week is 7·8 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	39·1	43·2	28·2	24·7	32·0	33·5	25·7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING— 8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	TOWNS.	WEEKS ENDING— 8th Nov. 1890.	15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.
Burdwan	25·9	22·9	33·6	41·2	Naraingunj	41·4	58·0	58·0	120·1
Midnapore	24·8	29·4	29·4	29·1	Chittagong	21·1	14·1	9·4	18·8
Hughli and Chinsurah	27·9	52·5	37·7	27·9	Comillah	23·1	19·3	23·1	30·8
Serampore	45·1	72·6	86·4	55·0	Patna City	16·2	14·3	14·3	14·6
Utterpara	37·7	80·1	28·3	75·5	Gya	44·4	44·4	49·0	80·1
Howrah	19·6	22·9	26·9	26·9	Arrah	23·7	12·0	13·2	7·2
Bali	24·6	21·1	17·5	17·5	Mozufferpore	20·7	17·0	17·0	14·6
Krishnagar	18·9	5·7	5·7	5·7	Durbhanga	14·2	18·9	33·0	27·5
Ranaghat	6·0	12·0	30·0	35·9	Chupra	12·1	8·0	13·1	8·0
Santipore	19·3	7·0	17·5	8·8	Bhagulpore	16·3	17·2	19·0	15·4
Jessore	24·5	48·0	18·4	36·7	Monghyr	40·7	27·1	26·2	38·0
Rampore Beauleah	47·3	15·1	47·3	47·3	Purneah	24·2	13·9	6·9	20·8
Darjiling	33·6	7·4	...	22·2	Poori	25·2	63·0	58·7	96·5
Dacca	21·4	15·6	45·4	28·5	Total ...	23·9	23·4	28·1	25·7

It will be seen that last week the highest mortality occurred in the town of Narainganj (120·1) and the lowest in Krishnagar (5·7).

Measured by last week's mortality, the highest annual death-rates from cholera, fever, bowel-complaints and other causes occurred in the following towns :—

Cholera.	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Narainganj	... 62·1	Rampore Beauleah	39·4	Serampore	... 13·7	Narainganj	... 29·0
Poori	... 39·8	Utterpara	... 37·7			Serampore	... 23·6
Howrah	... 5·7	Jessore	... 36·7			Poori	... 21·0
Dacca	... 3·2	Poori	... 33·6			Hughli and Chinsurah	18·1
		Comillah	... 23·1			Burdwan	... 12·2
						Gya	... 11·6
						Dacca	... 11·0

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·5 from cholera, against 2·3 per 1,000 in the preceding week; 11·7 from fever, against 14·2; 2·5 from bowel-complaints, against 3·5; and ·3 from injury, against ·4. Small-pox and other causes exhibit the same ratios as in the preceding week, *viz.*, ·1 and 7·5 per 1,000 respectively.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	26·8	Christians	... 44·8	Under 1 year	... 149·5
Females	24·5	Hindus	... 26·2	1 and under 5 years	... 28·0
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population...	109	Mahomedans	... 24·4	5 ,, 10 ,,	... 16·5
				10 ,, 15 ,,	... 7·6
				15 ,, 20 ,,	... 13·5
				20 ,, 30 ,,	... 15·0
				30 ,, 40 ,,	... 22·0
				40 ,, 50 ,,	... 28·2
				50 ,, 60 ,,	... 25·5
				60 years and upwards	... 72·0

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 15th December 1890. *Sanitary Commissioner for Bengal.*

Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities

1	2	3			4			5			6	7							8							9	10		11		12
												MORTALITY ACCORDING TO—																			
												Disease.																Sex.			
												Deaths from—							Ratio per 1,000 of population per annum.							Ratio of deaths per 1,000 of population per annum in the previous week.	Deaths.		Ratio per 1,000 of population per annum.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.																									
					Number of—			Ratio per 1,000 of population per annum.			Ratio of male births to every 100 female births.																					
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	10	12	22	15·3	18·3	33·6	83	1	...	13	4	1	8	27	1·5	...	19·8	6·1	1·5	12·2	41·2	33·6	14	13	40·3	42·2	95
Midnapore ...	Midnapore ...	16,927	16,633	33,560	7	10	17	10·8	15·5	26·3	70	...	...	7	1	1	4	13	...	...	10·8	1·5	1·5	6·2	20·1	29·4	6	7	18·4	21·9	84
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	3	12	15	4·9	19·7	24·6	25	...	...	8	1	...	8	17	...	...	13·1	1·6	...	13·1	27·9	37·7	8	9	26·2	29·6	88
Serampore ...	Serampore... ...	13,559	12,937	26,496	7	10	17	13·7	19·6	33·4	70	...	1	8	7	...	12	28	..	2·0	15·7	13·7	...	23·6	55·0	86·4	15	13	57·5	52·2	115
	Utterpara	3,046	2,464	5,510	3	3	6	28·3	28·3	56·6	100	1	...	4	...	...	3	8	9·4	...	37·7	...	...	28·3	75·5	28·3	7	1	119·5	21·1	566
Howrah ...	Howrah	53,153	37,660	90,813	29	26	55	16·6	14·9	31·5	111	10	...	16	10	...	11	47	5·7	...	9·2	5·7	...	6·3	26·9	26·9	34	13	33·3	18·0	185
	Bali	7,836	6,979	14,815	3	1	4	10·5	3·5	14·0	300	...	...	4	1	...	..	5	...	...	14·0	3·5	...	...	17·5	17·5	3	2	19·9	14·9	133
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	4	1	5	7·6	1·9	9·5	400	...	...	2	...	...	1	3	...	...	3·8	...	...	1·9	5·7	5·7	1	2	3·9	7·3	53
	Ranaghat	4,028	4,655	8,683	1	...	1	6·0	...	6·0	No female birth.	1	...	3	...	...	2	6	6·0	...	17·9	...	...	12·0	35·9	30·0	3	3	38·7	33·5	118
	Santipore	13,705	15,979	29,687	6	7	13	10·5	12·3	22·8	85	...	...	5	...	...	..	5	..	...	8·8	...	...	...	8·8	17·5	3	2	11·4	6·5	175
																									36·7	19·4	1	5	10·8	70·9	15
Jessore ...	Jessore	4,330	3,665	8,495	1	...	1	6·1	...	6·1	No female birth.	...	...	6	...	...	..	6	..	...	36·7	...	..	...	36·7	47·3	7	11	33·8	63·4	53
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	5	14	19	13·1	36·8	49·9	35	1	..	15	...	1	1	18	2·6	...	39·4	...	2·6	2·6	47·3	47·3	2	1	22·7	21·3	106
Darjiling ...	Darjiling ...	4,579	2,439	7,018	4	2	6	29·6	14·8	44·5	200	...	...	1	1	...	1	3	...	...	7·4	7·4	...	7·4	22·2	...	2	1	22·7	21·3	106
Dacca	Dacca	42,782	37,379	80,161	20	28	48	13·0	18·1	31·1	71	5	...	15	7	...	17	44	3·2	..	9·7	4·5	...	11·0	28·5	45·4	23	21	25·0	29·2	96
	Naraingunj ...	7,605	4,956	12,561	9	13	22	37·3	53·8	91·1	69	15	1	4	1	1	7	29	62·1	4·1	16·6	4·1	1·1	20·0	120·1	58·0	15	11	123·1	115·4	106
Chittagong ...	Chittagong ...	13,840	8,790	22,130	1	1	2	2·3	2·3	4·7	100	...	1	3	...	...	4	8	...	2·3	7·0	..	...	9·4	18·8	9·4	5	3	19·5	17·7	110
Tipperah ...	Comillah	8,153	5,353	13,506	4	7	11	15·4	27·0	42·4	57	...	...	6	...	...	2	8	...	...	23·1	...	...	7·7	30·8	23·1	6	2	38·3	19·4	197
Patna	Patna City ...	78,762	81,475	160,237	23	15	38	7·5	4·8	12·3	153	6	...	21	5	1	12	45	1·9	...	6·8	1·6	·5	3·9	14·6	14·3	24	21	15·8	13·4	118
Gya	Gya	38,290	37,831	76,121	18	14	32	12·3	9·6	21·9	128	2	...	24	1	...	17	44	1·4	...	16·4	·7	...	11·6	30·1	45·9	23	21	31·2	28·9	108
Shahabad ...	Arrah	20,960	22,505	43,465	5	4	9	6·0	4·8	10·8	125	3	...	3	...	...	...	6	3·6	...	3·6	...	...	...	7·2	13·2	1	5	2·5	11·6	21
Mozufferpore...	Mosufferpore ...	23,054	19,658	42,712	14	6	20	17·0	7·3	24·3	253	...	...	7	1	2	2	12	...	..	8·5	1·2	2·4	2·4	14·6	17·0	9	3	20·3	7·9	257
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	37	22	59	29·1	17·3	46·4	168	3	...	20	3	...	9	35	2·3	.	15·7	2·3	...	7·1	27·5	33·0	19	16	29·3	25·7	114
Sarun	Chupra	25,116	26,754	51,870	11	10	21	17·2	23·5	40·7	110	...	...	2	...	...	6	8	...	...	2·0	...	...	6·0	8·0	13·1	3	5	6·2	9·8	63
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	19	26	45	17·2	16·3	37·1	127	2	...	7	..	...	7	17	2·7	...	6·3	...	...	6·3	15·4	19·0	5	12	8·8	22·4	39
Monghyr ...	Monghyr	26,154	29,366	57,520	23	18	41	20·8	16·3	37·1	66	...	...	13	6	...	10	31	1·8	...	11·8	5·4	..	9·0	28·0	26·2	14	17	25·9	30·1	86
Purneah ...	Purneah	8,463	6,553	15,016	2	3	5	6·9	10·4	17·3	200	19	...	5	1	...	...	6	...	...	17·3	...	...	3·5	20·8	6·9	4	2	24·6	15·9	154
Poori	Poori	13,247	11,537	24,784	4	2	6	8·4	4·2	12·6				16	1	...	10	46	39·8	...	33·6	2·1	...	21·0	96·5	58·7	26	20	102·1	90·1	113
	TOTAL ...	550,986	510,588	1,061,574	273	267	540	13·4	13·1	26·5	102	73	3	238	51	7	154	525	3·5	·1	11·7	2·5	·3	7·5	25·7	28·1	284	241	26·8	21·5	109

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	21	6	..	.	... ..	46·1	30·4	...	...	2	3	..	...	2	3	4	9	2	2	157·6	69·1	.....	... ..	33·3	19·7	30·2	106·0	42·4	70 2
Midnapore ...	Midnapore ..	1	8	4	...	...	233·2	16·0	26·8	...	...	3	1	1	2	1	...	3	...	2	...	210·0	22·1	13·9	34·2	16·5	.....	29·1	.....	50·4	.....
Hughli ...	Hughli and Chinsurah.	...	13	4	...	...	.....	26·7	33·7	...	...	5	...	3	1	...	...	1	3	2	2	323·8	... ..	54·1	21·0	.....	.....	9·1	37·4	40·0	50·2
Serampore ...	Serampore ..	...	24	4	...	...	.....	45·5	221·7	...	...	5	6	2	...	2	3	4	3	...	3	366·2	172·9	41·4	.....	47·6	29·0	41·8	46·2	.....	112·1
	Utterpara ..	...	8	...	...	...	.....	78·1	.....	...	...	1	...	...	...	...	1	3	1	...	2	324·0	.....	... ..	.....	.....	45·2	147·0	74·2	.....	400·0
Howrah ...	Howrah	...	35	12	...	...	.....	26·7	30 4	...	...	5	1	2	...	...	7	11	9	6	6	123·0	9·4	16·5	... ..	.....	16 0	29 7	39·8	56·8	63·2
	Bali	..	5	...	...	...	.....	19·4	.....	...	...	1	2	...	...	...	...	...	...	...	2	143·6	104·1	.....	.....	.....	.....	.....	.....	.....	142·1
Nuddea ...	Krishnagar ...	...	2	1	...	...	.....	5·6	6·3	...	...	...	...	...	...	...	...	1	...	...	2	.....	.....	.....	.....	.....	10·8	.....	.....	.....	60·2
	Ranaghat	...	4	2	...	...	.....	28 4	76·2	...	...	1	...	1	...	...	1	1	1	1	..	251·2	.....	46 6	.....	.....	34·5	41·7	51·3	71·8	.....
	Santipore	...	3	2	...	...	... ..	7·5	11·6	...	...	3	...	..	...	1	..	...	1	...	...	184·6	.....	.....	.....	23·4	.....	... ..	14·8	.....	.....
Jessore ...	Jessore	...	4	2	...	...	... ..	46·1	27·2	...	...	1	...	...	...	...	2	...	1	...	2	205·0	.....	... ..	.....	.....	51·6	.....	49·5	.....	227·1
Rajshahye ...	Rampore Boaleah	...	6	12	...	...	... ..	31·5	63·6	...	...	2	1	1	2	...	1	3	3	...	5	256·2	36·7	25·0	57 7	.....	12·5	43·3	63·6	.....	270·0
Darjiling ...	Darjiling ...	...	3	...	...	...	.....	34·0	.....	...	...	...	..	...	1	...	1	1	...	...	...	.....	.....	.....	1·6 6	... ..	26·0	30·3	.....	.....	.....
Dacca ...	Dacca	2	22	20	...	...	218·9	28·4	26·4	...	...	2	7	5	1	2	9	3	6	2	7	54·8	43·4	26·2	6·5	14·2	30·5	13·4	37·2	22·0	65·3
	Narainganj ...	...	16	13	...	...	.....	131·6	109·7	...	...	6	2	...	1	3	1	7	4	1	4	1,118·3	91·2	.....	45·9	149·3	19·5	170·2	149·3	66·5	319·0
Chittagong ..	Chittagong ...	3	1	4	...	...	196·0	9·0	15·6	...	...	1	1	2	...	...	...	2	1	...	1	92·4	26·4	41·6	.....	.....	.....	31·2	23·0	.....	65·3
Tipperah ...	Comillah	..	2	6	...	...	.....	17·5	42·2	...	...	2	1	...	1	...	2	1	...	1	...	350·2	39 8	.....	33·6	.....	37·7	26·1	.....	64·9	.....
Patna	Patna City ..	...	40	5	...	...	.....	17·5	6·4	...	...	6	5	1	2	2	5	7	7	4	6	72·4	17·8	3·1	7·2	9·3	9·0	15·7	19·3	14·7	32·6
Gya	Gya	...	34	10	...	..	.....	29·5	32·3	...	...	6	5	...	...	1	5	3	2	4	18	174·3	40·9	.....	.....	9·9	17·7	12·3	10·6	31·6	181·9
Shahabad ..	Arrah	...	4	2	...	...	.....	6 7	8·4	...	...	1	1	2	1	...	...	...	1	...	...	40·4	11·7	20·3	11·8	.....	.....	.....	11·1	.....	.....
Muzufferpore ...	Muzufferpore ...	...	7	5	...	...	.....	12·1	20 8	...	...	6	2	...	...	...	1	1	2	...	...	326·7	25·7	.....	.....	.....	6·1	7·5	20 8	.....	.....
Durbhanga ...	Durbhanga ...	...	28	9	...	...	... ..	27·9	26·6	...	...	2	6	8	2	1	1	2	3	1	9	66 8	41·9	59·8	18·7	12·9	3·9	9·3	21·0	11·9	146·5
Baran	Chupra	...	8	...	...	...	.....	10·5	.....	...	...	3	...	...	...	2	...	1	...	...	2	110 6	.....	.....	.....	30·0	.....	6·7	.....	.....	30·6
Bhagulpore ...	Bhaguljore ...	...	13	4	...	...	.....	17·0	12·1	...	...	4	3	3	...	1	2	1	...	...	3	174·2	28·8	26·6	.....	12·4	9·5	5·6	.....	.....	48·3
Monghyr ...	Monghyr	...	21	10	...	...	.....	24·4	41·4	...	...	3	...	1	...	3	9	4	4	2	5	105·1	.....	7·4	.....	41·3	45·3	23·3	32·6	26·2	72·5
Purneah ..	Purneah	...	5	1	...	...	.....	28·3	9·2	...	...	...	...	...	...	...	...	2	3	...	1	.....	.....	.....	.....	.....	.....	36·5	84·1	.....	64·4
Poori	Poori	...	46	...	...	...	.....	9·5	.....	...	...	2	3	3	...	...	6	9	4	10	9	343·2	86·8	69·6	.....	.....	59·1	115·5	62·6	233·1	259·1
	TOTAL ...	6	381	138	...	...	44·8	6 ·2	24·5	...	...	73	50	35	14	21	61	74	68	38	91	149·5	23·0	16·5	7·6	13·5	15·0	22·0	28·3	25·5	72·0

OFFICE OF SANITARY COMMISSIONER FOR BENGAL;

W. H. GREGG, *Dip. Publ. Health, Camb.*

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing Quantittes of Goods carried during the month of October 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
603	1. Grain ...	855·40	5,436·71	6,292·11	4,38,451	6,292·11	4,38,451	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
164	3. Oilseeds ...	35·	4,284·74	4,319·74	4,29,890	4,319·74	4,29,890	
329	4. Salt ...	3,361·14	29·37	3,390·51	3,06,551	3,390·51	3,06,551	
16	5. Piece-goods ...	5·62	14	19·62	11,650	19·62	11,650	
32	6. Metal ...	193·77	11·22	204·99	37,035	204·99	37,035	
61	7. Building materials	352·59	140 70	493·29	3,188	493·29	3,188	
,980	8. Miscellaneous ...	6,263	19,073·44	25,336·44	27,50,321	25,336·44	27,50,321	
101	9. Fuel ...	733·29	894·62	1,627 91	16,002	1,627·91	16,002	
4 rafts	10. Timber ...	397 c. ft.	305 c. ft.	702 c. ft.	935	702 c. ft.	935	
) „	11. Bamboos ...	82 c. ft.	17,779 c. ft.	17,861 c. ft.	1,772	17,861 c. ft.	1,772	
,286 & 4 rafts.	12. Total ...	11,799·81 & 479 c. ft.	29,884·80 & 18,084 c. ft.	41,684·61 & 18,563 c. ft.	39,95,795	41,684·61 & 18,563 c. ft	39,95,795	
,425 & 4 rafts.	13. Total of same month last year	8,737 & 311 c. ft.	18,957 & 24,125 c. ft.	27,694 & 24,436 c. ft.	30,17,002	27,694 & 24,436 c. ft.	30,17,022	

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	1,418	1,868	3,286
4a. Empty boats „	923	196	1,119
5. Total number of boats plying passenger No.	920	1,315	2,235
3. Total registered tonnage, cargo Tons	30,788	62,651	93,439
'. Total registered tonnage, passenger Tons	1,065	841	1,906
3. Ton-mileage ..	.....	.....	.....
9. Estimated value of cargo Rs.	14,42,726	25,50,362	39,93,088
0. Number of passengers No.	1,604	1,881	3,485
1. Rafts, bamboos C. ft.	82	17,779	17,861
2. Do., bullahs „	397	305	702
3. Estimated value of rafts Rs.	665	2,042	2,707
4. Tollage on boats „	7,726-10-6	14,458-4-6	22,184-15-0
5. Compounded tollage on boats Rs.	.....	.....	.....
6. Tollage on rafts „	4-2-0	22-5-0	26-7-0
7. Total tollage on boats per ton-mile* ...	.....	.....	.....
8. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-2-3

	Rs. A. P.
Total tollage of month—24+25+26 ...	22,211 6 0
Total tollage of same month last year ...	16,802 15 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	1,017 10 6
2. Tollage per month ...	22,211 6 0
3. Total ...	23,229 0 6
4. Amount paid into treasury during the month ...	22,776 12 10
5. Balance due at the end of the month ...	452 3 8

* Boats in these rivers do not pay per mile.

Abstract for the month of October 1890 *as compared with the corresponding month of the previous year.*

	1890-91. During the month.	1890-91. To end of the month.	1889-90. During the month.	1889-90. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
llage	22,211 6 0	1,40,199 3 0	16,802 15 6	1,33,863 2 9

CALCUTTA,
the 16th December 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
93	1. Grain ...	673	24	697	28,347	697	28,347	
2	2. Cotton ...	2	.....	2	1,170	2	1,170	
14	3. Oilseeds ...	69	.....	69	6,210	69	6,210	
26	4. Salt ...	.....	202	202	22,640	202	22,640	
8	5. Piece-goods ...	.....	29	29	48,400	29	48,400	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
20	7. Building materials	38	88	126	994	29	451	
672	8. Miscellaneous ...	191	519	710	92,643	701	92,423	
13	9. Fuel ...	6	12	18	92	18	92	
14 rafts	10. Timber ...	3,437 c. ft.	.....	3,437 c. ft.	2,143	3,437 c. ft.	2,143	
15 „	11. Bamboos ...	650 „	75 c. ft.	725 „	77	725 „	77	
848 & 29 rafts	12. Total ...	979 & 4,087 c. ft.	874 75 c. ft.	1,853 & 4,162 c. ft.	2,02,716	1,747 & 4,162 c. ft.	2,01,953	
796 & 47 rafts	13. Total of same month last year.	1,290 & 5,081 c. ft.	626 607 c. ft.	1,916 & 5,688 c. ft.	1,51,271	1,883 & 5,688 c. ft.	1,50,841	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	385	463	848
15. Total number of boats plying passenger No.	117	89	206
16. Total registered tonnage, cargo Tons	2,787	2,777	5,564
17. Total registered tonnage, passenger Tons	965	1,017	1,982
18. Ton-mileage ...	108,356	125,234	233,590
19. Estimated value of cargo Rs.	61,561	1,38,935	2,00,496
20. Number of passengers No.	2,351	3,876	6,227
21. Rafts, bamboos C. ft.	650	75	725
22. Do., bullahs „	3,437	.....	3,437
23. Estimated value of rafts Rs.	2,213	7	2,220
24. Tollage on boats „	1,998-4-0	2,133-0-3	4,131-4-3
25. Compounded tollage on boats Rs.	5-5-6	27-13-0	33-2-6
26. Tollage on rafts „	95-0-0	0-3-0	95-3-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·4
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	2-4-7

	Rs. A. P.
Total tollage of month—24+25+26 ...	4,259 9 9
Total tollage of same month last year ...	4,668 15 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	2,906 3 3
2. Tollage per month ...	4,259 9 9
3. Total ...	7,165 13 0
4. Amount paid into treasury during the month ...	2,667 0 6
5. Balance due at the end of the month ...	4,498 12 6

Abstract for the month of October 1890 *as compared with the corresponding month of the previous year.*

	1890-91. During the month.	1890-91. To end of the month.	1889-90. During the month.	1889-90. To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	4,259 9 9	37,806 2 0	4,668 15 3	38,620 8 9

CALCUTTA,
The 16th December 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 13th December 1890, as compared with the corresponding week of the previous year.

Nature of Cargo.	Week ending Saturday, the 13th December 1890.			Week ending Saturday, the 14th December 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	900	78,450	1,110	1,149	73,775	932
Jute	279	1,70,155	3,000	400	2,32,850	4,455
Firewood	144	85,325	1,282	74	45,050	653
Other articles	1,130	2,48,520	3,921	1,206	2,74,675	4,276
Total ...	2,453	5,82,450	9,313	2,829	6,26,350	10,316

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of September 1890, as compared with the same month of the previous year.

Staples.	1889.		1890		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	869	.....	873	.....	869	873	4	.....
Cotton, raw	.....	.....	6	.....	.....	6	6	.....
Cotton piece-goods—								
1.—European	67	2	16	.....	69	16	.....	53
Grains—								
2.—Rice	115	2	110	29	117	139	22	.....
4.—Others	108	8	56	.....	111	56	.....	55
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	6	.....	.....	6	.....	.....	6
Jute—								
2.—Gunny-bags and cloths	1	.....	3	2	1	5	4	.....
Metals—								
4.—Others	1	6	.....	2	7	2	.....	5
Oils—								
1.—Castor	.....	.....	2	.....	.....	2	2	.....
2.—Kerosine	3	.....	.....	1	3	1	.....	2
3.—Others	2	.....	.....	.....	2	.....	.....	2
Oilseeds—								
2.—Mustard and rape	77	.....	38	.....	77	38	.....	39
6.—Others	2	.....	.....	.....	2	.....	.....	2
Provisions—								
1.—Ghee	3	.....	2	.....	3	2	.....	1
2.—Dried fruits and nuts	.....	12	.....	15	12	15	3	.....
3.—Others	2	7	1	.....	9	1	.....	8
Paper and pasteboard	.....	.....	2	.....	.....	2	2	.....
Railway plant and rolling-stock	32	.....	32	4	32	36	4	.....
Salt	64	.....	23	.....	64	23	.....	41
Silk, raw—								
2.—Indian	1	34	.....	2	35	2	.....	33
Silk piece-goods—								
2.—Indian	.....	1	.....	2	1	2	1	.....
Stone and lime	6	.....	.....	.....	6	.....	.....	6
Sugar—								
1.—Drained	12	.....	8	.....	12	8	.....	4
2.—Undrained	11	.....	30	.....	11	30	19	.....
Tobacco	2	.....	.....	.....	2	.....	.....	2
Timber	4	.....	13	.....	4	13	9	.....
All other articles of merchandise	85	15	77	19	100	96	.....	4
Total ...	1,462	93	1,292	76	1,555	1,368	76	293

Increase. Tons.

Grains—
(2) Rice 22

This increase is due to greater despatches from intermediate stations.

Sugar—
(2) Undrained 19

This is due to greater demand at Azimgunj.

Decrease.

Cotton piece-goods—
(1) European 53

Grains
(4) Others 55

Oil-seeds—
(2) Mustard and rape 39

Salt 41

Silk, raw—
(2) Indian 33

All these decreases are due to breach of the line by flood.

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of September 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	1,508	2,165	6,974	1,670	8,176	8,644	.....	468
Cotton, raw	.....	66	6	25	66	31	35	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	2,937	73	3,591	113	3,010	3,704	.....	694
Grains—								
2.—Rice	2,197	2,614	1,328	1,601	4,811	2,929	1,882	.....
5.—Others	909	2,958	832	2,294	3,867	3,126	741	.....
Hides and skins—								
2.—Skins of sheep, &c.—								
b.—Undressed	3	402	7	540	405	547	.....	142
Jute—								
1.—Raw—								
a.—Screwed	1	4,569	.....	10,601	4,570	10,601	.....	6,031
b.—Unscrewed	61	38,376	45	52,037	38,437	52,[illegible]	.....	14,545
2.—Gunny-bags and cloth	106	801	57	767	907	824	83	.....
Metals—								
3.—Brass and copper, wrought	747	61	744	122	808	866	.....	58
Oils—								
2.—Kerosine	1,077	2	402	4	1,079	406	673	.....
3.—Others	131	47	200	13	178	219	.....	41
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	76	754	64	815	830	879	.....	49
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	72	49	122	108	121	230	.....	109
3.—Others	433	101	425	228	534	653	.....	59
Railway plant and rolling-stock	.....	.....	5,625	1,405	5,645	7,030	.....	1,385
Salt	3,304	30	2,862	9	3,334	2,871	463	.....
Sugar—								
1.—Drained	956	91	403	235	1,047	638	409	.....
2.—Undrained								
Tea—								
1.—Foreign	1	2,393	2	2,183	2,394	2,185	209	.....
2.—Indian								
Wood—								
1.—Timber	73	59	63	16	132	79	53	.....
2.—Firewood	1,700	.....	1,523	.....	1,700	1,523	177	.....
Tobacco	20	1,192	56	1,342	1,212	1,398	.....	186
All other articles of merchandise—								
1.—Unmanufactured	2,407	935	2,426	2,796	3,342	5,222	.....	1,880
2.—Manufactured								
Hay, straw, and wooloo (C. & S.-E. Sections)	560	.....	527	.....	560	527	33	.....
Total	19,279	57,798	28,200	79,824	87,225	1,08,114	4,758	25,647

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of September 1890.

Increases. Tons.

Rice 1,882
From the Northern and Behar Sections principally.
Kerosine oil 673
The increase is due to the opening of Budge-Budge.

Decreases.

Cotton piece-goods 694
Due to suspension of traffic on account of floods.
Jute, unscrewed 14,545
Serajganj, Narayanganj, Goalundo and Pangsa show very large decreases due to suspension of traffic on account of floods.
Jute, screwed 6,031
This decrease was in traffic from Narayanganj and Goalundo, and is said to be due to the same cause as in the foregoing item.

F. P. Quinlan,
Examiner of Accounts.

Calcutta, *the* 10*th December* 1890.

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of September 1890, *as compared with the same month of the previous year.*

Staples.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	222	.....	1,024	.....	873	1,62	.....	751
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	126	.....	416	1	126	417	.....	291
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	150	41	62	18	191	80	111	.....
5.—Others	50	2	55	286	52	341	.....	289
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed	.....	17	.....	27	17	27	... ..	10
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
b.—Unscrowed	.....	1,878	.....	9,383	1,878	9,383	.....	7,505
2.—Gunny-bags and cloth	5	2	1	.....	7	1	6	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	10	2	44	22	12	66	.....	54
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	52	.....	122	.....	52	122	.....	70
3.—Others	22	.....	88	.....	22	88	.....	66
Oilseeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly	54	23	22	93	76	115	.....	39
4.—Niger								
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel-nuts	.....	32	2	80	32	82	.....	50
3.—Others	6	17	16	40	23	56	...	33
Railway plant and rolling-stock	.....	.. ...	42	10	103	52	51	.....
Salt	184	1	247	7	185	254	.....	69
Sugar—								
1.—Drained	13	90	9	204	103	213	.....	110
2.—Undrained	10	21	30	38	31	68	.....	37
Tobacco								
All other articles of merchandise—								
1.—Unmanufactured	257	148	357	189	405	546	.....	141
2.—Manufactured								
Total ...	1,161	2,273	3,137	10,398	4,188	13,535	168	9,515

Comparative statement of the principal commodities carried over the Bengal Central Railway during the month of September 1890.

Decreases.

	Tons.
Coal	751
Sufficiency of stock for railway and flotilla consumption.	
Jute, unscrowed	7,505
From Khoolna and Nawapara due to suspension of traffic on account of floods at Benapole.	

F. P. Quinlan,
Joint-Auditor and Examiner of Accounts.

Calcutta, *the* 10*th December* 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, *on* 1,525½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	238,716	3,08,602 15 0	22,70,980 20	6,30,559 7 0	17,750 15 0	9,65,913 5 0	73,370½	88,405½	161,782½
Or per mile of railway ...	.....	202 4 9	.....	419 3 11	11 10 2	633 2 10	.....	.....	.....
For previous 22 weeks of half-year	5,003,952	54,33,623 15 0	4,13,79,808 10	99,48,096 11 0	3,53,855 13 5	1,57,35,576 7 5	1,434,922½	1,677,571	3,112,493½
Total for 23 weeks ...	5,242,668	57,42,226 14 0	4,36,50,788 30	1,05,87,656 2 0	3,71,606 12 5	1,67,01,489 12 5	1,508,293½	1,765,976½	3,274,275½
Comparison.									
Total for corresponding week of previous year	252,032½	3,19,717 10 8	23,83,374 30	6,14,273 14 0	23,613 15 11	9,56,605 8 7	81,895	85,121	154,016
Per mile of railway corresponding week of previous year ..	.....	209 0 4	.....	402 10 9	14 13 2	627 1 3	.....	.....	.....
Total to corresponding date of previous year	5,553,493	62,01,434 9 11	4,86,75,284 20	1,10,06,306 8 6	3,85,976 12 4	1,75,93,717 14 9	1,513,187	1,851,351	3,364,538

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 7th December 1889.			Receipts for week ending 6th December 1890.			Total receipts from 1st April 1889 to 7th December 1889.			Total receipts from 1st April 1890 to 6th December 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	
1,525½	9,56,606	627	1,525½	9,65,913	633	1,525½	2,90,20,470	539	1,525½	2,77,33,880	505	.....	18,86,590

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, *on* 57½ *miles open.*

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,453	7,835 2 0	53,420 20	3,567 2 0	42 0 0	11,444 4 0	1,673	721	2,394
Or per mile of railway	253	136 15 8	934 10	62 5 9	0 11 9	200 1 2	.....	.....	.....
For previous 22 weeks of half-year	288,792	1,67,793 12 0	7,72,482 10	50,886 13 0	723 13 0	2,19,404 6 0	31,357½	12,142	43,499½
Total for 23 weeks ...	303,245	1,75,629 14 0	8,25,912 30	54,453 15 0	765 13 0	2,30,848 10 0	33,030½	12,863	45,893½
Comparison.									
Total for corresponding week of previous year	12,423	6,530 4 11	40,319 20	2,377 13 0	50 10 3	8,964 12 2	1,738	799	2,537
Per mile of railway corresponding week of previous year ...	217	114 4 4	705 0	41 9 2	0 14 2	156 11 8	.....	.....	.....
Total to corresponding date of previous year	318,858½	1,77,970 11 10	10,37,585 0	52,586 3 0	1,602 11 3	2,32,139 10 1	36,040	16,921	52,961

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 7th December 1889.			Receipts for week ending 6th December 1890.			Total receipts from 1st April 1889 to 7th December 1889.			Total receipts from 1st April 1890 to 6th December 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	8,985	157	57½	11,444	200	57½	3,46,136	168	57½	3,59,808	175	13,672	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 22½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
al traffic for the week ...	18,481	4,679 6 0	13,382 0	543 8 0	6 11 0	5,229 9 0	882	86	968
per mile of railway	.....	210 4 11	.....	24 6 10	4 10 0	235 0 7	.....	.....	.....
previous 22 weeks of half-year	361,830	89,603 8 0	1,56,366 10	5,811 4 0	129 6 0	95,544 2 0	19,856	1,110	20,96
Total for 23 weeks ...	380,261	94,283 14 0	1,69,748 10	6,354 12 0	136 1 0	1,00,778 11 0	20,738	1,196	21,93
Comparison.									
al for corresponding week of revious year	17,837	4,623 8 8	38,317 0	585 9 0	13 2 6	5,222 4 2	876	272	1,148
mile of railway correspond- g week of previous year ...	.....	207 12 10	.....	26 5 1	0 9 5	234 11 4	.....	.....	.....
al to corresponding date of revious year	410,033	1,00 511 5 1	2,62,185 10	6,505 15 0	143 4 3	1,07,160 8 4	21,073	1,950	23,023

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

...eipts for week ending 7th December 1889.			Receipts for week ending 6th December 1890.			Total receipts from 1st April 1889 to 7th December 1889.			Total receipts from 1st April 1890 to 6th December 1890.			Total increase in 1890.	Total decrease in 1890.
...an ...age ...ked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
2½	5,222	235	22½	5,230	235	22½	1,89,798	237	22½	1,85,824	232	... ..	3,974

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K.-D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 29th November 1890, on 763 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
l traffic for the week ...	b174,078	89,980 0 0	6,26,186 0	1,66,700 0 0	28,870 0 0	2,85,550 0 0	23,560	32,148	55,648
er mile of railway	228	118 0 0	821 0	218 0 0	†10 0 0	346 0 0	.....	.....	... .
previous 21 weeks of half-ar	a2,921,760	12,95,236 0 0	a1,28,24,918 0	31,92,762 0	3,45,496 0 0	*48,33,494 0 0	465,126	703,922	a1,169,048
Total for 22 weeks ..	3,095,838	13,85,216 0 0	1,34,51,104 0	33,59,462 0 0	3,74,366 0 0	51,19,044 0 0	488,686	736,070	1,224,696
Comparison.									
l for corresponding week previous year	146,975	78,394 0 0	6,91,535 0	1,94,052 0 0	30,995 0 0	3,03,441 0 0	22,736	39,283	62,019
mile of railway correspond- period of previous year ...	197	105 0 0	926 0	260 0 0	†11 0 0	376 0 0	.....	.....	.....
l to corresponding date of evious year	3,136,479	14,29,007 0 0	1,38,25,267 0	34,61,514 0 0	3,97,501 0 0	52,88,022 0 0	496,468	713,584	1,210,052

* Audited up to week ending 4th October 1890.
a Ditto ditto 18th October 1890.
† Excluding steamer earnings.
b Due to moon eclipse and Rashjattra mella.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

...eipts for week ending 0th November 1889.			Receipts for week ending 29th November 1890.			Total receipts from 1st April 1889 to 30th November 1889.			Total receipts from 1st April 1890 to 29th November 1890.			Total increase in 1890.	Total decrease in 1890.
...n ...ge ...d.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
	3,03,441	406	763	2,85,550	374	717	74,23,464	296	760	*75,01,702	282	78,238	.....

* Audited up to week ending 4th October 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	37,090	14,350 0 0	43,593 0	3,110 0 0	740 0 0	18,200 0 0	3,600	2,023	5,623
Or per mile of railway	297	115 0 0	349 0	25 0 0	6 0 0	146 0 0	.....	.....	.....
For previous 21 weeks of half-year	†492,759	1,75,442 0 0	†8,52,281 0	70,216 0 0	4,487 0 0	*2,50,145 0 0	82,067	31,452	†113,519
Total for 22 weeks ...	529,849	1,89,792 0 0	8,95,874 0	73,326 0 0	5,237 0 0	2,68,345 0 0	85,667	33,475	119,142
Comparison.									
Total for corresponding week of previous year	27,111	10,188 0 0	38,755 0	2,737 0 0	1,263 0 0	14,188 0 0	3,573	2,100	5,671
Per mile of railway corresponding period of previous year ...	127	82 0 0	310 0	22 0 0	10 0 0	114 0 0	.....	.....	.....
Total to corresponding date of previous year	606,017	2,08,195 0 0	12,62,838 0	1,16,102 0 0	4,788 0 0	3,29,175 0 0	77,928	53,288	131,216

* Audited up to week ending 4th October 1890.
† Ditto ditto 18th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 30th November 1889.			Receipts for week ending 29th November 1890.			Total receipts from 1st April 1889 to 30th November 1889.			Total receipts from 1st April 1890 to 29th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	14,188	114	125	18,200	146	125	5,09,032	116	125	*4,33,794	99	.....	75,238

* Audited up to week ending 4th October 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,921	6,330 0 0	38,518 0	3,600 0 0	90 0 0	10,580 0 0	2,415	1,405	3,8
Or per mile of railway	185	80 0 0	448 0	42 0 0	1 0 0	123 0 0	.....	.....	.....
For previous 21 weeks of half-year	†317,909	1,03,183 0 0	†4,46,350 0	40,645 0 0	5,441 0 0	*1,49,269 0 0	50,310	15,483	†65,7
Total for 22 weeks ...	313,830	1,10,073 0 0	4,84,868 0	44,245 0 0	5,531 0 0	1,59,849 0 0	52,725	16,888	69,6
Comparison.									
Total for corresponding week of previous year	20,547	6,453 0 0	45,286 0	4,680 0 0	352 0 0	11,484 0 0	2,495	1,596	4,0
Per mile of railway corresponding period of previous year	239	75 0 0	527 0	54 0 0	4 0 0	133 0 0	.....	.....	.....
Total to corresponding date of previous year	338,697	1,08,651 0 0	5,64,009 0	47,389 0 0	4,622 0 0	1,60,662 0 0	54,782	21,243	76,0

* Audited up to week ending 4th October 1890.
† Ditto ditto 18th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 30th November 1889.			Receipts for week ending 29th November 1890.			Total receipts from 1st April 1889 to 30th November 1889.			Total receipts from 1st April 1890 to 29th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
8	11,484	133	86	10,580	123	86	2,84,941	71	86	*2,41,710	80	6,769	.....

* Audited up to week ending 4th October 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 29th November 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,404	1,230 0 0	9,881 0	560 0 0	30 0 0	1,820 0 0	730	410	1,140
Or per mile of railway ...	125	45 0 0	363 0	21 0 0	1 0 0	67 0 0	.....	.....	.....
For previous 21 weeks of half-year	†61,198	21,975 0 0	†2,16,110 0	11,501 0 0	353 0 0	*33,829 0 0	14,250	7,823	†22,083
Total for 22 weeks ...	64,602	23,205 0 0	2,25,991 0	12,061 0 0	383 0 0	35,649 0 0	14,980	8,245	23,223
Comparison.									
Total for corresponding week of previous year	3,078	1,095 0 0	18,408 0	1,224 0 0	55 0 0	2,374 0 0	586	395	981
Per mile of railway corresponding period of previous year ...	113	40 0 0	676 0	45 0 0	2 0 0	87 0 0	.....	.....	.....
Total to corresponding date previous year	68,256	24,921 0 0	1,99,141 0	13,166 0 0	1,790 0 0	39,877 0 0	12,742	7,762	20,504

* Audited up to week ending 4th October 1890.
† Ditto ditto 18th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 30th November 1889.			Receipts for week ending 29th November 1890.			Total receipts from 1st April 1889 to 30th November 1889.			Total receipts from 1st April 1890 to 29th November 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,374	87	27¼	1,820	67	27¼	65,456	69	27¼	*61,651	65	.....	3,805

* Audited up to week ending 4th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

Combined System.

Approximate Return of Traffic for week ended 29th November 1890, on 699 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week ...	175,100	a92,500	2,29,090	31,010	8,090	1,31,600	18,648	12,286	30,934
Or per mile of railway	250·50	132·33	328·60	48·06	11·57	192 56	.....	.....	.....
For previous 20 weeks of half-year	1,515,620	5,92,789	56,38,054	7,20,990	1,44,007	14,58,386	253,652	251,301	504,953
Total for 21 weeks ...	1,690,720	6,85,289	58,67,744	7,55,000	*1,52,097	15,92,086	272,300	263,587	535,887
Comparison.									
Audited figures.									
Total for corresponding week of previous year, 649 miles open...	79,791	30,324	3,33,235	41,038	7,314	78,676	10,299	13,134	23,433
Per mile of corresponding week of previous year	122·94	46·73	513·49	63·23	11·27	121·23	.....	.....	.....
Total to corresponding date of previous year	1,759,786	6,65,055	58,87,240	6,75,970	1,77,952	15,18,986	240,439	274,239	523,678

* Steam-boat earnings for the week Rs. 7,000
Ditto ditto to date „ 1,20,040

* Ajodhya bridge earnings for the week „ 2,020
Ditto ditto adjustment „ 900
Total „ 2,920
Ditto ditto to date „ 9,230

Train mileage figures :—

	a Bengal & N.-W. Section. Rs.	Tirhoot Section. Rs.
Coaching ...	9,100	9,548
Goods ...	6,260	6,026
Total ...	15,360	15,574

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 30th November 1890.			Receipts for week ending 30th November 1889.			Total receipts from 1st April 1890 to 29th November 1890.			Total receipts from 1st April 1889 to 30th November 1889.			Total increase in 1890-91	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
699	1,34,600	192·56	649	78,676	121·23	676	29,16,666	124·29	640	28,34,639	125·30	82,027	.....

a Increase in passenger traffic this week is due to the fairs held at Ajodhya and Sonepur.

N.B.—Earnings of B. and N.-W. Section.

	Week ended 29-11-90. Rs.	Week ended 30-11-89. Rs.
Coaching ...	41,740	14,981
Goods ...	13,000	15,241
Other earnings ...	4,400	3,478
Total ...	59,140	33,700

Earnings of Tirhoot Section.

	Week ended 29-11-90. Rs.	Week ended 30-11-89. Rs.
	50,760	15,343
	21,010	25,797
	3,690	3,836
	75,460	44,976

Printed and published by Edwin Morris Lewis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 17th December 1890.

2. The offering is made in commemoration of Sir Steuart Bayley's late visit to Gya, with whose name Babu Rameswar Proshad Narain Singh wishes it to be connected.

3. I would ask you to bring this handsome donation to the notice of His Honour the Lieutenant-Governor, and would suggest that special mention of it should be made in the *Calcutta Gazette*.

4. I ask this more particularly because Babu Rameswar Proshad Narain Singh quite lately gave another handsome donation of Rs. 15,000 towards the Lady Doctor's fund when it was first started—*vide* Government order No. 2, dated 10th April 1890.

RICE CROP OF 1890.

THE following papers are published for general information.

REVENUE DEPT., AGRICULTURE,
CALCUTTA;
The 23rd December 1890.

By order of the Lieut.-Govr. of Bengal,
P. NOLAN,
Secretary to the Govt. of Bengal.

Note on the Final Forecast of the winter rice crop, 1890.

SINCE the issue of the preliminary forecast, dated 2nd October, abundant and timely rain has fallen over the whole province. Except in a few districts of North and East Bengal, where the winter rice crop was damaged to the extent of 2 to 3 annas by excessive rain and floods, the prospects of the harvest have been more or less improved by timely rain in the latter half of September and in October in almost every part of the province. Save in the tracts which have seriously suffered from floods, which form a very small proportion of the total area under rice, a full average crop, or more than a full average crop, may now be expected throughout Bengal. In the Sudder and Chuadanga subdivisions of the Nuddea district, in the Bongong and Jhenidah subdivisions of the Jessore district, and in the Sudder and Sewan subdivisions of the Sarun district, the probable outturn, owing to damage by floods, is reported to be only 8 annas or less, and in them there is, as remarked in the *bhadoi* forecast issued on the 30th October, cause for watchfulness on the part of the local authorities.

2. It has not been found possible in the present forecast to estimate, in tons, the total outturn of rice or the probable amount available for export. The safest indication of the amount likely to be available for export is the amount actually exported in past years when the crop was a full average one, as it is in the present year. The figures noted in the margin show the total exports of rice by sea from Bengal for the past five years. Looking to the fact that the character of the winter and *bhadoi* rice of last year was nearly the same as in the present year, it may be assumed that the quantity likely to be available for export in the coming year will be at least as large as in the present year, and will probably be about 10,000,000 cwt.

Total exports by sea from Bengal.

	Cwt.
1886	7,191,703
1887	9,871,108
1888	10,685,218
1889	7,090,919
1890 (for 10 months up to 31st October) ...	7,860,328

M. FINUCANE,
Director of the Department of Land Records and Agriculture, Bengal.

CALCUTTA,
The 10th December, 1890.

II.—*Final Forecast of Winter Rice Crop in Bengal for the year* 1890.

1	2	3	4	5	6	7	8	9	10	11
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
							Annas.	Annas.		
Burdwan ...	Sudder	1,242	993	663	466	651	9	14	The crop was affected to some extent by floods and excess of rainfall during transplanting time. The difference between this and the previous forecast is so slight that no explanation is necessary.	In June the rainfall was in excess of the normal, but in July and August, which include the transplanting season, the fall was short of the normal, and not in excess as stated by the Collector, except in the Sudder sub-division, where the fall was in excess in July, but short in August.
	Raneegunge ...	671	398	352	352	352	13	15		
	Cutwa	352	265	217	68	214	4	14		
	Culna	432	350	200	133	203	7	16		
	District Total ...	2,697	2,006	1,432	1,059	1,417	8 to 10	About 15		
Bankoora ...	Sudder	1,921	670	570	570	570	12	16	In the current year the weather was favourable, except in the months of August and September, when the young plants suffered to some extent for want of sufficient rainfall. In the Bishenpore sub-division, which differs from the Sudder in agricultural conditions, the unfavourable state of the weather in August and September so far affected the crop as to reduce the outturn formerly estimated from 16 to 14 annas.	The rainfall appears to have been well distributed and in excess of the normal up to end of July: in August the fall was to judge from the meteorological returns, very deficient. At Bankoora only 4·25 inches of rain were recorded in the first four weeks of August against the normal fall of 13·51 inches, and at Bishenpore, 3·52, against 14·51 inches. The transplanting operations appear to have suffered from this deficiency, particularly in the Bishenpore sub-division.
	Bishenpore ...	700	350	290	290	290	14	14		
	District Total ...	2,621	1,020	860	860	860	13	15		
Beerbhoom ...	Sudder	1,108	777	694	604	620	16	20	The rainy season has throughout been almost ideally perfect in Beerbhoom. Good rain in June (and very early in June too), very heavy rain in July, good sun in August, sufficient rain in September and a crowning mercy of mild rain in October. It is hardly possible to conceive of better than this. Floods do not trouble this district, and there has been no abnormal condition: the land is bearing about as much as it can produce.	
	Rampore Hât ...	648	468	350	324	400	15	20		
	District Total ...	1,756	1,245	954	928	1,020	15½	20		
Midnapore ...	Sudder	3,283	1,799·5	1,255	1,242	1,252·5	14	14	Owing to deficiency of rainfall there has been a partial failure of crops almost throughout the whole district. On account of deficiency of rainfall at the time of sowing, the lands could not be wholly cultivated, and again owing to the excess of rainfall in November the crop was damaged to some extent. Owing to rainfall in October some lands that were not cultivated at the time of the former report were cultivated, and hence the difference in area under this year's winter rice.	In the Sudder and Contai sub-divisions the rainfall was very scanty in July and August, only 11·66 inches having fallen at Midnapore during these two months, against the normal fall of 26·42 inches, and 10·3 inches at Contai against 28·63 inches. In Ghattal and Tumlook the fall was slightly short of the normal, though quite sufficient in July, but in August it proved to be very scanty (4·25 inches and 6·5 inches against 16·05 and 14·56 inches respectively).
	Contai	881	713	645	641	617	13	12		

1	2	3	4	5	6	7	8	9	10	11
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
Midnapore—*concld.*	Tumlook ...	630	465	435	435	435	Annas. 14	Annas. 16	Although there was scanty fall of rain during the transplanting season, this part of the district being low, there was no marked damage as was apprehended. The copious fall of rain in September and October did much good to the crops.	
	Ghatal ...	266	228	206	206	206	13	14	Owing to deficiency of rainfall during the ploughing season and also owing to scantiness of rainfall in September, two annas of the crop on the whole has been damaged.	
	District Total ...	5,119	3,203·5	2,541	2,524	2,510·5	134	14	...	The rainfall was scanty all over the district throughout the season, the following being the figures for rainfall in July and August :—
Hooghly ...	Sudder	443	276·25	221	221	221	8	16	...	Actual. Normal. Sudder ... 13·90 25·22 Serampore ... 16·49 26·09 Jehanabad ... 22·89 29·23 Howrah ... 17·38 25·94 Oolooberiah ... 13·96 28·38
	Serampore ...	343	226	167	157	157	14	16	Deficiency of rain at ploughing and sowing time affected the crop to the extent of two annas, but the balance is an exceptionally fine crop and brings the harvest up to at least an average one. A loss of 2 annas is due to deficiency of timely rain and to Damoodar flood.	The crop is likely to have suffered from this cause, especially in the Sudder and Oolooberiah sub-divisions.
	Jehanabad ...	283	226	151	151	131	14	14	.....	
	Howrah	171	109	95	83	95	14	16	There was deficiency of rain during the rainy season and also later on.	
	Oolooberiah ...	205	200	170	156	140	16	16		
	District Total ...	1,097	1,037·25	774	747	744	13	About 16		
24-Pergunnahs.	Sudder	1,070	717	593	575	590	16	15	The scanty fall of rain at the sowing season and the unequal distribution of rain affected the crop of the current year. The heavy fall of rain followed by the floods in a small area of the Basirhat sub-division reduced the former estimate by one anna.	The rainfall was seasonable and sufficient in May and June. In July and August the fall was scanty, particularly in Baraset. The recorded fall in July and August was 16·79 inches against the normal fall of 25·76 inches.
	Diamond Harbour ...	513	413	445	445	446	16	16		
	Baraset	342	243	183	182	183	16	12		
	Basirhat	630	430	333	309	333	16	13		
	Barrackpore ...	42	12	6	6	6	16	12		
	Dum-Dum	86	86	24	27	30	16	16		
	District Total ...	2,603	1,900	1,368	1,552	1,588	16	14		

KHOOLNA ...	Sudder	1,572·40	396	305	317	302	15	12	Heavy rain during the sowing season and the floods have affected the outturn of the winter rice crop.	The rainfall during April, May, and June, which include the sowing season, was not particularly heavy in the district, except in June, in the Bagirhat sub-division. The estimates of outturn appear to be too low.
	Satkhira	1,272·88	449	321	309	309	14	9		
	Bagirhat	1,508·63	520	308	300	300	14	14		
	Area of boundary, khals, and rivers of Sunderbuns in this district.	496	.....	.....	.....	.....	.....	.....		
	District Total ...	4,849·91	1,359	934	917	911	14	11		
NUDDEA ...	Sudder	701	484	159	159	159	5	3	The rainfall has been favourable to the crop, but a considerable portion of it has been destroyed by the floods. The prospects of the crop in Chuadanga have changed for the better since the date of the first forecast.	The rainfall, although slightly deficient in August, was on the whole favourable. The losses must be wholly ascribed to floods. If the outturn in the Sudder and Chuadanga sub-divisions is as low as reported, there is cause for watchfulness and apprehension of distress.
	Kushtea	588*	441*	330*	104	110	8	10		
	Meherpore ...	627	500	62	62	62	12	10		
	Chuadanga ...	457	272	60	60	60	8	3		
	Ranaghat	427	236	64	64	64	8	10		
	District Total ...	2,780	1,953	675	449	455	9	About 7	The inundation has destroyed about one-fourth of the winter rice crop.	
JESSORE ...	Sudder	889	475	260	260	260	16	12	For insufficiency of rainfall at the sowing season, a portion of the land annually sown with winter rice remained fallow. The crop has this year been mostly destroyed by the floods.	
	Bongong	649	389	259	240	240	10	4		
	Narail	497	293	200	200	225	18	16	In the first forecast the outturn was estimated at 12 annas, as it was apprehended that the flood would cause much damage to the crops. The prospect has since changed for the better and a 16-anna outturn is estimated.	
	Jhenidah	475	317	100	100	100	12	8	The early inundation has destroyed about a moiety of the winter rice crop.	
	Magurah	425	268	128	128	1	16	14	A little damage has been done by floods.	
	District Total ...	2,925	1,742	947	928	953	144	11		
MOORSHEDABAD.	Sudder	767	576	84	84	94	8	10	Late sowing owing to deficient rainfall and unusual floods affected the outturn of this year's crop in parts.	
	Lalbag	372	223	204	280	198	10	13		
	Jungipore	508	351	63	63	63	18	15		
	Kandi	512	353	235	235	233	17	18		
	District Total ..	2,159	1,503	586	582	578	14	14		
DINAGEPORE ...	Whole district ...	4,118	2,600	2,000	1,950	2,000	16	18	There would have been a bumper crop but for the damage done to the crops of lowlands by excessive rain. Excessive but timely rain throughout the sowing season has caused the prospects of the crop this year to be better than those of last year's.	
RAJSHAHYE ...	Sudder	944	588	300	336	300	17	14	The inundation caused by the heavy showers of the latter part of September has damaged the crop to some extent at the Sudder sub-division, and so the outturn has been reduced by 1½ annas. Though flood has done some injury to the crops both at Nattore and Nowgong sub-divisions, still good outturn is expected.	
	Nattore	817	612	590	578	590	14	15		
	Nowgong	603	500	300	300	280	20	16		
	District Total ...	2,364	1,700	1,190	1,214	1,170	17	15		

* During the current year Chur Meerchader, having an area of 30 square miles, was transferred from the Rajshahye district to the Kushtea sub-division; hence the increase over those hitherto shown in crop forecasts.

1	2	3	4	5	6	7	8	9	10	11
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
							Annas.	Annas.		
Rungpore	Sudder	1,151	900	675	675	675	10	16	The unusual flood and overflowing of the river have damaged the crop. Owing to this cause the previous estimate of the crop in the Nelphamari, Kurigram, and Gyabanda sub-divisions has been reduced.	
	Nelphamari	638	480	365	360	365	12	12		
	Kurigram	937	700	500	500	500	16	13		
	Gyabanda	760	580	440	440	470	14	13		
	District Total	3,486	2,660	1,980	1,975	2,010	13	13½		
Bogra	Whole district	1,452	913	440	440	440	17	13	The rainfall this year was plenteous and timely up to 26th September. Since then excessive falls and floods have destroyed some and damaged more of the crop, especially in the north and north-west of the district, and have reduced the previous estimate.	
Pubna	Whole district	1,847	1,462	639	574	623	13	12	Owing to the excessive rain and sudden rise of the rivers, the standing crops have been further damaged to the extent of 3 annas.	
Darjeeling	Sudder, including Kalimpong.	726	92	16	16	16	14	12	The heavy rains caused this year's outturn to be less than that of last year. No winter rice crop is grown in the Kurseong sub-division. The crop has suffered less in Siliguri than was expected from heavy rains; hence the increase of the estimate of outturn.	
	Kurseong	185	.....	.....	.....	.....	.....	.....		
	Siliguri	253	180	95	94	95	15	15		
	District Total	1,164	272*	111	110	111	14½	14		
Jalpaiguri	Bykantapore	447	298	180	180	160	10	14		
	Boda	402·72	295	182	180	181	12	11	Rainfall has been heavy but well distributed so far as the rice crop is concerned.	There was a constant downpour of rain in June and July. At Jalpaiguri the rainfall was 40·82 and 41·46 inches in June and July, respectively, against the respective normals of 29·12 and 26 inches. In June there were only three rainless days, and in July only one. The seedlings must have suffered to a certain extent from this cause, and transplantation on lowlands was impeded.
	Patgram	86·68	75	48	45	47	12	13		
	Mynaguri	524	219	109	125	141	12	14		
	Alipore	649	200	120	100	120	13	14		
	Falakata	486	170	100	100	100	10	14		
	Bholka	132	44	40	40	40	12	14		
	District Total	2,737·90	1,301	759	750	789	12	13½		
Dacca	Sudder	1,206	633	422	422	422	14	12	Extraordinary high floods and strong gales in September and October caused much damage to this year's crop in the Sudder and Manickgunge sub-divisions, and hence the outturn is reduced.	
	Manickgunge	459	306	274	274	274	12	8		
	Rajbari	491	300	90	90	90	12	12		
	Faridpore	641	360	90	90	90	16	16		
	District Total	2,797	1,599	886	886	886	14	12		

FURREEDPORE	Sudder	860	662	451½	429	383	14	10	The plants in low lands have be considerably damaged by floods.
	Madaripore ...	979	652	440	440	440	14	12	The state of winter rice crop in the *bil* lands is reported to have improved since the submission of the last report.
	Goalundo	428	321	214	214	214	12	14	Damaged in places by floods, but on the whole a 14-anna crop may be expected.
	District Total ...	2,267	1,575	1,105½	1,083	987	13½	12	
BACKERGUNGE	Sudder	1,111	698	450	450	450	16	16	Season conditions have been normal, except that in places slight damage was done by floods.
	Perosepore ...	692	500	370	370	370	14	16	
	Bhola	615	400	250	250	250	16	16	
	Patuakhali ...	1,231	800	350	350	550	16	16	
	District Total ...	3,649	2,098	1,420	1,420	1,420	16	16	
MYMENSINGH	Sudder	1,849	1,070	400	375	400	18	16	The outturn of *aman* rice crop is expected to be fair. The unusually high flood has not considerably damaged the crop.
	Tangail	1,061	780·75	365	351	365	16	16	
	Jamalpore	1,244	930	367	415	289	14	13½	The crop was affected to some extent on account of excessive rain in September.
	Netrokona ...	1,389	694	550	500	500	12	16	The estimate of 14-anna crop is not likely to have been affected by the rainfall, as was apprehended in the last report.
	Kishoregunge ...	744	350	150	175	180	14	14	
	District Total ...	6,287	3,824·75	1,862	1,816	1,734	15	15	
TIPPERAH	Sudder	1,142	856	599	599	599	16	16	Since the submission of the former report timely rain has done much good to the crop.
	Brahmanneria ...	769	553	359	359	375	19	16	The high flood-water partially damaged the winter rice in some places.
	Chandpore ...	580	415	300	300	300	18	18	Rain at intervals, after the submission of the last report, has improved the condition of *aman* crop.
	District Total ...	2,491	1,824	1,258	1,258	1,274	18	About 17	
NOAKHALLY	Sudder	1,298	1,000	666	578	619	18	13	The decrease in the outturn is due to unequal distribution of rain at the sowing, transplantation, and harvesting time. Excessive rain and flood (and partly insects) have damaged the crop.
	Fenny	343	280	216	216	216	18	12	
	District Total ...	1,641	1,280	882	794	835	18	12½	
CHITTAGONG	Sudder	1,630	611·25	382	382	382	19	16	Heavy rainfall in the months of July and August did not do much damage. The outlook is promising.
	Cox's Bazar ...	937	654·78	582	466	582	19	16	The season throughout has been a most favourable one. A full harvest is expected.
	District Total ...	2,567	1,266·03	964	848	964	19	16	

The Collector's remark as to the irregularity of rainfall in the Sudder subdivision is not at all borne out by the meteorological returns. The character of the rainfall here was the same as in Fenny. There was slight excess of rain (only 3 inches) in Fenny subdivision in July; in June and August it was less than the normal. In September the fall was considerably short, and in October slightly in excess, of the normal. The loss of paddy must therefore be ascribed to floods.

In July the rainfall was exceptionally heavy (51·2 inches against 22·13 inches), but in August it appears to have been normal.

* This includes the area under tea cultivation.

1		3	4	5	6	7	8	9	10	11
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
HITTAGONG HILL TRACTS.	Sudder	3,583·5	43·25	7	7·5	5·8	12	14	The heavy and continuous rainfall throughout the ploughing time and proportional rain after transplantation this year were favourable to the winter rice, and a 14-anna crop may be expected.	The Commissioner remarks that, from information received from Mr. Pughe and Captain Shakespear, it seems probable that the crop beyond the frontier will be a bumper one. If the rainfall proved favourable, why should not an average crop be expected?
	Sungoo	1,835·5	23·86	4	4	3·5	12	14		
	District Total ...	5,419	67·11	11	11·5	9·3	12	14		
ATNA ...	Sudder	617	457	216	216	200	15	14	The outturn has been affected by excessive rainfall and flood, but the fall of *hatiya* rain has done much good to the crop and increased the estimate to 14 annas.	
	Dinapore	143	118	52	52	50	12	10	This year's crop has been greatly damaged by flood and excessive rain.	
	Barh	526	405	120	141	109	13	18	Seasonable rainfall at the time of ploughing and transplanting, and the *hatiya* rains particularly, give hopes of a bumper crop. There having been rain both at the end of September and the second week of October, the outturn of winter rice crop has been put down at 18 annas.	
	Behar	793	575	352	352	352	11	16	The rainfall this year has been very favourable for the winter rice crop throughout the season.	
	District Total ...	2,079	1,555	740	761	711	13	15		
RA ...	Sudder ...	1,339	1,434	775	968	775	12	16	Excess of rain at the sowing and transplantation season has caused the decrease in area under winter rice by one-fifth of that of the last year's cultivation.	
	Aurungabad ...	1,246	747	336	340	340	12	16	.....	
	Jehanabad ...	607	503	325	325	325	8	14	.....	
	Nowada ...	1,020	765	573	480	587	14	14	Two annas out of 16 annas were damaged for want of rain in September 1890.	
	District Total ...	4,712	3,449	2,009	2,113	2,027	13	15		

SHAHABAD ...	Arrah	915	778	389	389·25	390	14	17	The continuous excessive rainfall just after the crop was sown prejudiced the prospects of a bumper crop, but afterwards *hatiya* rain made up the loss. Lately, however, the appearance of a crop disease called *dakhisara* has again marred the prospects. The outturn has been a little more than average.
	Buxar	656	563	282	282	282	12	14	The heavy and continuous rainfall is likely to prove favourable to the winter rice, and a 14-anna crop may be expected.
	Sasseram	1,495	850	430	374	415	10	15	*Hatiya* rain came on copiously, so a good harvest is expected.
	Bhaboca	1,301	976	488	400	450	12	18	The rain has been sufficient and, as reported in my first forecast, a bumper crop is expected this year.
	District Total ..	4,365	3,167	1,639	1,445·25	1,537	12	16	
DURBHUNGA ...	Sudder ...	1,222	929	586	585	585	17	12	Excessive rainfall and floods in August affected the outturn this year. The *hatiya* rainfall improved the crop of the Samastipore sub-division, but did not fully counteract the damage already done by excessive rain.
	Samastipore (Tajpore). ...	764	611	259	192	259	16	12	
	Madhubani .	1,349	1,100	800	719	700	18	16	
	District Total ...	3,335	2,640	1,645	1,496	1,544	17	Over 13	
MOZUFFERPORE.	Sudder ...	1,218	957	602·52	602·32	560	12	16	Floods swamped large tracts in these two sub-divisions and destroyed the rice crop; hence the area cultivated with rice was reduced. Over the area not affected by floods, a full crop may be expected, the later rain having been most opportune and beneficial.
	Hajeepore ...	771	529·6	204·31	204·31	170	14	14	The rain which has fallen since the last report has greatly improved the condition of the crops, ensuring a good outturn from the late as well as early transplantation.
	Sitamarhi ...	1,014	770·64	500	481·64	500	16	18	The sub-division suffered very slightly on the whole from the floods, so far as the rice crop is concerned, while the timely and abundant rain at the end of the season has ensured an excellent crop on the higher lands, which form a large proportion of the cultivated area. A more than 18-anna crop is thus expected.
	District Total ...	3,003	2,257·24	1,307·13	1,288·77	1,230	14	16½	
SARUN ...	Sudder	998	849	235	217	217	14	5	Transplantation was effected with facility owing to favourable rainfall, but subsequently the crop was damaged by heavy rainfall, floods and want of sun. In most low lands the crop was entirely lost. On the floods subsiding transplantation was done again in many places, but the seedlings were destroyed by the floods, and paddy could not be retransplanted in all places. The land where paddy failed will be sown with *rabi* crops. The *hatiya* rain exceedingly benefited the rice crop and raised its prospects from 2 annas, as previously estimated, to 5 annas.
	Sewan	883	693	255	255	275	8	8	The continuous heavy rainfall damaged the paddy much, and in consequence the outturn will be less than was estimated before.
	Gopalgunge ...	771	550	180	239	180	14	14 .	The unusually heavy rains in July and August damaged the transplanted paddy, a part of which had to be replanted, and about one-fourth of the whole area under paddy was not replanted at all for want of seedlings.
	District Total ...	2,652	2,092	660	711	672	12	9	

1	2	3	4	5	6	7	8	9	10	11
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
Chumparun ...	Motihari	1,518	1,022	359	359	359	16	16	Timely rainfall during the year, especially the fall in the beginning of October, has secured an average crop.	
	Bettiah	2,013	1,200	700	700	700	16	16		
	District Total ...	3,531	2,222	1,059	1,059	1,059	16	16		
Monghyr ...	Sudder	1,559	1,091	436	436	436	12	20	A bumper crop is expected in the Sudder sub-division on account of the opportune rainfall in September and October. In the Begusarai sub-division the crop was damaged to the extent of 8 annas by floods and excessive rain. In Jamui the rainfall was timely and the harvest is expected to be good.	
	Begusarai	769	577	23	23	23	16	8		
	Jamui	1,593	1,063	700	700	700	14	16		
	District Total ...	3,921	2,730	1,159	1,159	1,159	14	17		
Bhagulpore	Sudder	936	655	535	550	560	10 to 12	16	The rainfall was deficient last year, but favourable this year. Atmospheric conditions were favourable in the past as well as in the present year. The crops of this year were to some extent injured by excessive rainfall in July and August and by subsequent floods, but the injury has been compensated by more transplantation on high lands.	
	Banka ...	1,185	888	687	687	687	10	16		
	Madhepura ...	872	566	318	339	339	16	16		
	Soopole	1,275	956	420	478	478	14	16		
	District Total ...	4,268	3,065	1,980	2,054	2,064	13	16		
Purneah ...	Sudder	2,872	1,500	600	600	600	12	14	The rainfall was favourable both in the ploughing and sowing time, but the flood has destroyed a part of the crop here and there. Floods were more destructive last year in the Sudder sub-division than this year.	
	Kishengunge ...	1,340	900	600	500	600	16	18	The rainfall in September has benefited the crops: hence the outturn is expected to be 18 annas.	
	Arrareah ...	1,044	600	400	400	400	17	16	There has been a sufficient and timely rainfall. But in parts of thanas Ranigunge and Matiari there has been a slight damage done to the crops by floods.	
	District Total ...	4,956	3,000	1,600	1,500	1,600	15	16		
Malda ...	Whole district ...	1,902	1,068	450	450	450	16	16	For sufficient rainfall during the months of September and October the outturn is expected to be 16 annas.	

SONTHAL PERGUNNAHS.	Dumka	1,429	710	366	354	360	12	18	Owing to abundant and seasonable rain, the former estimate is increased by 2 annas.	
	Deoghur	964	358	198	198	193	16	18		
	Godda	967	676	450	409	420	13	16		
	Rajmehal	740	555	381	381	381	16	12	.....	The low estimate of outturn for Rajmehal is not explained by the Deputy Commissioner. In May the fall was slightly deficient (3·18 against 4·93 inches), but was well distributed over the latter half of the month. In June and August the fall was slightly in excess of the normal, and in July slightly deficient. In September and October, the fall was copious and well distributed. On the whole, the fall was such as would meet all the requirements of the crop.
	Pakour	683	511	410	410	410	16	18	The crop in the villages east of the Pakour thana was somewhat injured by flood.	
	Jamtara	696	195	199	99	199	13	19	Deficiency of rainfall at the sowing time affected the winter rice.	
	District Total ...	5,469	2,905	1,809	1,753	1,824	14½	About 17		
CUTTACK ...	Sudder	989	773	578	578	576	16	14	The somewhat low outturn in the Sudder sub-division is due to deficient rainfall at the time of sowing (June, 12·24 inches against the normal, 18·34 inches). The outturn is less than the average in the Kendrapara and Jajepore sub-divisions owing to deficient rainfall in August. In Kendrapara the crops of a portion of the Kujong estate were damaged by the storm-waves of 30th June 1890.	In August the rainfall recorded at Cuttack was in excess of the normal (14·03 against 11·64 inches); at Kendrapara it was 9·12 against 13·24, but not so scanty as to reduce the crop by 4 annas, in July the rainfall having been normal; at Jajepore, there was marked deficiency in August (5·49 against 11·74 inches). The rainfall throughout the season in the Sudder sub-division, although somewhat in excess in July, was very well distributed, and there is no reason why an average crop should not be expected.
	Banki	116	60	36	36	36	16	16		
	Kendrapara ...	1,424	641	511	452	499	12	12		
	Jajepore	1,104	500	450	450	450	16	13		
	Angul	.....	.....	.....	.....	.....	.....	.....		
	District Total ...	3,633	1,973	1,575	1,516	1,561	15	13		
BALASORE ...	Sudder	1,188	670	589	589	589	9½	13	The outturn this year is less than average owing to excess of rainfall at the time of sowing and insufficient rain in July, August, and first half of September.	The rainfall in June was in excess of the normal in all places, but was not of an exceptional character. In July and August, however, the fall was singularly scanty in all places: at Balasore only 5·7 inches fell in July against the normal fall of 11·89 and 7·86 inches in August, against 12·78 inches.
	Bhuddruck ...	909	720	580	580	580	14	12		
	District Total ...	2,066	1,390	1,169	1,169	1,169	12	12½		
POOREE ...	Sudder	1,530	720	506	506	516	14	16	Owing to excessive rain at the time of sowing up to the present date the outturn of the winter rice crop has been estimated at 16 annas in the Sudder sub-division; but if there be heavy showers or high winds in the present month, the outturn will be much lessened. There is at present (1st November) very unsettled and rainy weather, which, as well as the untimely rain at the end of October, have affected the outturn of Khurda sub-division, where the crop is far advanced.	Early in July the rainfall was very excessive; on the 2nd 8·24 inches were recorded at Khurda and 6·22 inches at Pooree.
	Khurda	990	415	251	251	251	14	14		
	District Total ...	2,520	1,135	757	757	767	14	15½		
HAZARIBAGH	Hazaribagh ...	4,575	2,593	1,124	1,124	1,124	14	20	Throughout the district the rainfall was excessive both in July and August, and therefore favourable for rice crops both in sowing and transplanting seasons; and as sufficient rain fell both in September and October, a bumper crop is expected this year.	The rainfall in June and July was in excess of the normal. In August the fall was short of the normal; at Hazaribagh it was 10·99 inches against the normal fall of 12·87 inches, and at Giridih 9·57 inches against 11·90 inches, but the fall being well distributed and sufficient, the slight deficiency could do no harm.
	Giridih	2,446	1,280	555	555	555	18	20		
	District Total ...	7,021	3,873	1,679	1,679	1,679	16	20		

1	2	3	4	5	6	7	8	9	10	11
DISTRICT.	SUB-DIVISION.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under winter rice.	Approximate area under last year's winter rice.	Estimated area under this year's winter rice.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
LOHARDUGGA	Sudder	7,784	1,662	1,455	1,298	1,420	14	14	In the last report the outturn in Palamow was estimated at 14 annas, but subsequently it has been reduced to 12 annas. The showers in the latter part of the season improved the prospects of the crop.	The rainfall in June and July was slightly in excess of the normal and was well distributed; in August the fall was much in excess of the normal at Lohardugga and Palamow, but short at Ranchi. Excess of rain cannot have done harm at this time. No reason is assigned why the crop should be less than the average, or why the previous estimate has been reduced by 2 annas.
	Palamow	4,260	2,000	852	852	600	10	12		
	District Total ..	12,044	3,662	2,307	2,150	2,220	12	13		
MANBHOOM ...	Sudder	3,344	1,300	600	553	600	16	18	A good crop is expected owing to timely rainfall during the year.	
	Gobindpore ...	803	360	263	133	263	14	16		
	District Total ...	4,147	1,660	863	686	863	15	17		
SINGHBHOOM ...	Kolhan	1,946	973	450	450	425	13	13	The deficient outturn is due to want of sufficient rain. The crop was slightly improved by the late rain.	In June the rainfall was seasonable and sufficient to judge from the rainfall returns, but in July it was rather scanty, 9·42 inches against 14 inches at Chyebassa. In August and up to the 12th September the fall was still scantier, only 3·2 inches having been recorded at Chyebassa in August, against the normal fall of 13·2 inches and 1·06 inch in the first 12 days of September against the normal fall of 4·32 inches.
	Porahat	660	247	150	150	150	15	14		
	Dhalbhoom ...	1,147	573	400	400	400	16	16		
	District Total ...	3,753	1,793	1,000	1,000	975	16	Above 14		
	Total for all Bengal	153,840·51	86,968·68	58,139·63	50,401·52	51,369·8	14	15		

NOTE.—Twenty annas to be taken as representing a bumper crop, 16 annas an average crop, and 12 annas three-fourths of an average crop.

Division.	District.	May.		June.		July.		August.		September.		October.	
		Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall.	Normal average.	Actual rainfall	Normal average.	Actual rainfall
Burdwan	Burdwan ...	5·01	3·07	9·23	20·49	11·80	16·56	12·36	6·86	7·87	11·40	4·16	4·27
	Bankoora ...	4·03	4·58	9·56	13·80	13·12	16·20	13·78	4·46	8·53	9·95	3·77	5·04
	Beerbhoom ...	3·40	2·38	9·10	17·41	12·85	14·92	13·67	11·91	9·16	10·21	3·41	8·37
	Midnapore ...	5·05	6·84	9·59	15·04	13·76	6·47	13·25	6·90	8·85	9·66	5·26	7·85
	Hooghly ...	5·34	4·93	9·75	14·91	12·71	9·74	14·21	8·57	8·43	9·02	4·07	5·70
	Howrah ...	5·81	4·60	9·45	20·29	13·13	7 34	14·28	8·12	8·04	9·99	3·65	5·99
Presidency	24-Pergunnahs ...	5·70	6·04	9·83	12·09	12·97	8·94	13·72	10·64	9·62	10·06	4·46	10·83
	Khoolna ...	6·61	6·82	12·44	16·63	13·45	12·95	12·48	9·10	9·33	5·78	4·52	7·13
	Nuddea ...	6·35	4·62	9·62	12·15	10·48	11·79	12·19	8·66	8·52	10·17	4 17	8·87
	Jessore ...	7·01	5·72	12·10	14·74	10·55	10·84	11·54	10·11	8·43	5·12	4·45	8·61
	Moorshedabad ...	5·21	2·44	9·05	11·93	11·00	17·37	11·79	11·11	9·77	9·40	4·37	7·18
Rajshahye	Dinagepore ...	6·45	6·14	13·25	16·53	12·14	16·80	11·87	16·10	11·17	17 43	3·44	11·45
	Rajshahye ...	6·09	5·41	10·26	19·16	11·82	20·58	11·48	8·44	11·26	15·53	4·53	10·23
	Rungpore ...	11·24	8·65	21·49	27·71	13·90	14·80	12·35	14·32	13·00	25·94	4·46	14·66
	Bogra ...	7·91	6·04	13·11	16·07	13·69	13·39	11·81	14·09	10·70	17·03	4·34	11·60
	Pubna ...	7·11	7·98	11·32	10·50	10·83	10·60	11·93	9·10	10·27	12·35	4·43	5·68
	Darjeeling ...	7·70	5·96	24·02	27·53	30·36	58·96	26·67	29·55	17·42	16·09	6·10	10·02
	Julpigoree ...	11·96	7·47	20 12	40·82	26·06	41·46	25·91	31·07	23·59	21·27	5·25	18·29
Dacca	Dacca ..	8·70	11·87	12·91	12·56	13·84	15·35	12·38	12·32	10·05	8·03	4·61	5·35
	Furreedpore ...	8·80	6·44	12·61	9·07	12·40	11·09	12·08	10 31	8·68	5·61	4·24	7·78
	Backergunge ...	7·80	6·40	18·66	16·79	18·78	10·70	16·14	12·38	11·36	7·17	5·62	7·46
	Mymensingh ...	9·94	11·06	17·42	20·49	13·55	17·86	14·07	12·93	12·01	9·92	5·32	9·35
Chittagong	Tipperah ...	10·21	10·29	17·21	14·07	15·27	17·82	16·37	11·77	11·58	4·79	5·26	6·62
	Noakhally ..	10·05	10·78	24·18	17·98	21·82	29·26	23·49	21·98	16·26	12·18	7·37	9·57
	Chittagong ...	6·54	4·11	26·35	22·35	28·52	40·23	23·48	23·74	14·07	11·27	6·60	4·05
	Chittagong Hill Tracts.	...	...	...	...	...	...	...	...	...	...	...	...
Patna	Patna ...	2·18	2·15	5·05	8·08	12·12	15·66	10·58	13·33	7·20	7·12	2·97	1·18
	Gya ...	1·74	1·01	5·52	12·68	11·83	18·14	11·71	20·88	6·90	5·04	2·58	0·42
	Shahabad ...	1·30	0·70	5·30	10·30	11·97	16·72	11·40	12·79	7·29	7·76	3·19	1 39
	Durbhunga ...	2·68	2·46	8·00	11·22	11·60	23·12	10·71	15·49	9·25	5·55	2·72	1·87
	Mozufferpore ...	2·51	2·44	7·08	8·46	11·26	20·44	10·11	13·23	8·27	7·03	3·03	1·81
	Sarun ...	1·92	2·19	6·39	10·64	11·41	17·56	10·21	13·80	7·68	8·03	3·74	1·50
	Chumparun ...	2·60	3·05	8·31	12·81	12·12	23·25	12·18	14·10	9·05	8·85	3·46	5·66
Bhagulpore	Monghyr ...	2·34	2·67	6·38	15·18	11·89	18 88	11·21	10·89	7·75	5·87	3·13	2·25
	North Bhagulpore	3·96	2·66	8·71	10·65	11·61	25·20	11·87	14·79	9·76	8·56	3·36	2·19
	South ditto ...	2 64	4·38	7·77	9·86	10·91	14·72	11·24	13·71	7·98	4·73	3·64	4·39
	Purneah ...	5·50	4·38	12·98	20·30	15·47	21·44	14·03	22·42	13·63	18·19	3·43	8 94
	Maldah ...	4·50	4·64	10·60	11·26	11·50	11·20	12·03	16·60	10·52	12·95	3·62	7·60
	Sonthal Pergunnahs.	3·75	3·14	8·59	15·10	12·97	15·99	12·79	13·20	8·06	6·89	3·62	10·02
Orissa	Cuttack ...	3·05	4·26	9·12	7·80	12·20	13·27	12·20	8·88	9·53	16·74	5·69	7·45
	Balasore ...	4·95	5·23	8·25	13·39	12·20	6·72	11·77	7·42	11·28	18·35	5·36	9·54
	Pooree ...	2·76	2·17	7·89	10·06	10·65	16·79	11·46	10·85	9·08	15·81	7·42	10·84
Chota Nagpore	Hazaribagh ...	2·38	1·18	7·90	11·03	13·40	17·68	13·07	9·94	8·10	7·37	3·26	1·61
	Lohardugga ...	2·35	1·15	7·00	7·92	12·94	16·13	12·51	17·15	8·94	5·30	2·47	1·35
	Manbhoom ...	3·25	2·80	8·42	12·73	11·53	11·16	12·87	8·31	7·68	5·75	3·08	3·14
	Singbhoom ...	4·17	4·25	8·01	9·04	14·00	9·42	13·78	3·48	8·38	7·18	2·91	1·73

Final Note on the outturn of the bhadoi crops, 1890.

AT the time of the preparation of the preliminary *bhadoi* forecast (15th September), most of the *bhadoi* crops had been harvested, and the remainder was nearly ready for the sickle. Deficiency or excess of rainfall after that date could not have affected these crops to any appreciable extent. The estimates of outturn consequently remain unaltered except in a few districts where slight changes have been made, as the result of further enquiries instructed by the local officers since the submission of their preliminary forecasts.

M. FINUCANE,

Director of the Dept. of Land Records and Agriculture, Bengal.

CALCUTTA,
The 10th December 1890.

II(a).—Final report on bhadoi crops in Bengal, 1890.

1	2	3	4	5	6	7		9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
Burdwan	Sudder	1,242	993	139	111	130	Early paddy—Aus, kelash and nehali.	10	12	The crops were partially affected by excess of rainfall at the sowing time and by floods before harvesting time.	
	Raneegunge	671	398	30	30	30	Aus paddy	13	15		
							Biri kalai				
							Jowar				
	Cutwa	553	285	33	22	32	Early paddy—Toca	8	12		
							Nehali				
							Jhanti				
							Kalsi				
	Culna	432	350	100	80	100	Aus paddy	10	16		
	District Total ...	2,697	2,006	302	243	292		10½	14		
Bankoora	Sudder	1,921	670	45	45	45	Early paddy—Aus, kelash, tetko and chali.	14	16	Deficiency of rainfall in August and September affected to some extent the growth of the plants, or there would have been a bumper crop.	
	Bishenpore	700	350	43	43	43	Aus and kelash paddy	16	16		
	District Total ...	2,621	1,020	88	88	88		15	16		
Beerbhoom	Sudder	1,103	777	170	173	157	Bhadoi paddy—Aus, bora	16	20	The rainy season has throughout been almost ideally perfect in Beerbhoom.	In the latter half of June and throughout July the rainfall was considerably in excess and incessant in the Sudder sub-division. In the Rampore Hat sub-division, there was considerable excess in June, but in July the fall was nearly normal. Some damage is likely to have been caused in the Sudder sub-division by excess of rainfall.
							Tora				
	Rampore Hat	648	468	73	64	68	Bhadoi paddy—Aus, kalma	15	20		
							Mahepal				
							Bonous				
							Neyali				
							Bhoosa				
	District Total ...	1,751	1,245	243	237	225		More than 15	20		
Midnapore	Sudder	3,252	1,799·5	419	390	399	Aus paddy	13½	10	Deficiency of rainfall at harvesting time is the cause of short outturn.	
							Til		18		
							Jowar		9		
							Biri		13		
	Contai	881	713	68	69	58	Aus paddy	14½	10	Owing to the deficiency of rainfall at the time of ploughing and sowing and growth, the bhadoi crops have been partially damaged.	
							Biri		8		
							Til		16		
							Hemp		12		
							Jute		12		
	Tumlook	620	465	38	38	38	Aus paddy	15	8	The deficiency of rainfall in July and August (i.e. at the transplanting time), as well as the excess of rainfall in September and October, i.e. in the harvesting season, caused great damage to the crop.	In July and August taken together, the rainfall was deficient all over the district, particularly in the Sudder and Contai sub-divisions; the mean actual rainfall of the district during these two months having been 13·37 against 27·01 inches. In May the fall was nearly normal, and in June considerably in excess of the normal in all parts of the district; the deficiency of rainfall at the time of ploughing and sowing noticed against Contai is not borne out by rainfall records.
	Ghattal	366	228	22	22	22	Aus paddy	12	16		
							Jhanji and guji amla...				
	District Total ...	5,119	3,205·5	547	519	517	.....	14	12		

1	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
Hooghly ...	Sudder	443	276·25	55·25	55·25	55·25	Aus paddy	6	10	The crop was affected by deficiency of rainfall at the ploughing and sowing time.	
	Serampore ...	343	250	30·25	30·25	30·25	Ditto	12	12	There was some loss in consequence of deficient rainfall after sowing.	
	Jehanabad ...	438	263	87	87	87	Ditto	16	8	Damoodar flood caused great damage to the crops before harvesting.	
	Oolooberiah ...	303	200	25	22	18	Aus and kailes paddy	18	14		
	Howrah	171	109	18	16	17·50	Aus paddy	14	16		
	District Total ...	1,697	1,097·25	215·50	210·50	208		13	12		
24-Pergunnahs	Sudder	1,070	717	65	56	38	Aus paddy	15	14	The scanty fall of rain at the sowing time has affected the crops of the year under report.	
	Diamond Harbour	513	453	5	12	5	Ditto and boro paddy.	14	12		
	Baraset	392	243	60	60	60	Aus paddy	10	12		
	Basirhat	530	439	45	70	45	Ditto and boro paddy.	16	14		
	Barrackpore ...	42	12	2	2	2	Aus paddy	10	9		
	Dum-Dum... ...	56	36	5	3	4	Ditto	12	12		
	District Total ...	2,603	1,900	182	203	154		14	13		
Khoolna ...	Sudder	1,572·40	3·0	21	21	21	Aus, boro, and kurmoni rice.	11	8	Heavy rain during the sowing season and the flood at the harvesting time have affected the outturn.	
	Satkhira	1,272·88	449	40	40	40		8	8		
	Bagirhat	1,508·63	520	70	70	70		11	8		
	Area of boundary khals and rivers of Sunderbuns in this district.	496	.....	.....	.....	.....		.....	.....		
	District Total ...	4,849·91*	1,359	131	131	131		10	8		
Nuddea	Sudder	701	484	291	291	291	Aus paddy	8	4	The crops were damaged more or less by flood.	
							Jute				
							Indigo				
	Kushtea	588†	441†	330	209	220	Aus paddy	.....	4		
							Jute	4	8		
							Indigo	.....	8		
	Meherpore ...	627	500	440	440	440	Aus paddy	8	5		
							Jute	10	14		
							Indigo	16	14		
							Gama(?)	.....	14		
	Chuadangah ...	437	272	200	200	200	Aus paddy	6	3	The prospects in Chuadangah have since been improved.	
	Ranaghat	427	256	192	192	192	Aus paddy	10	4		
							Jute	8	4		
							Indigo	12	6		
	District Total ...	2,780	1,953	1,453	1,332	1,313		8	8		
	Sudder	889	475	210	210	210	Aus paddy	12	12	Timely rainfall during the ploughing and sowing seasons gave satisfactory results.	
							Jute	16	16		
	Bongong	649	389	194	194	194	Aus paddy	14	8	The floods of the year having appeared at a time when the crop was not fit for the sickle, greatly damaged the crop. About 2 annas of the submerged crop have since the subsidence of the flood been gathered. Hence the estimate of outturn has increased.	

DACCA ...	Manikgunge ...	489	366	46	46	46	Early paddy, viz.— Kalamanic ... ... Poranchi ... ... Shaita ... ... Gareswar ... ... Karchamari ... ... Sandhamaller	10	10	6	The prospects of aus paddy this year were much better than last year, but the extraordinary high flood of the current year damaged the crop very much. The unusual rise of the rivers has affected every crop, especially the sugarcane.
	Munshigunge ...	401	300	100	80	80	Jute ... ... Aus paddy ... ... Dicher paddy ... ... Grass ... ... Sugarcane ... ... Early paddy, viz.— Boalari ... ... Saita ... ... Alechaliya ... ... Maisiara	12 16 15 14	12 16 15 14	12 16 12 14 4	
	Narsingunge ...	641	360	80	80	80	Sarsuful ... ... Kaminisail ... ... Kataktara ... ... Gharmora ... ... Chisan ... ... Tengair	12	12	10	Deficiency of rain at sowing time, excess of at harvesting time, and floods have affected this crop.
	District Total ...	2,797	1,559	437	417	437	.....	.....	11	11	
FURREEDPORE ...	Sudder ...	860	602	84	54	54	Early paddy .		8	8	
	Madaripore ...	979	652	64	64	64	Aus, boro, asni, degha	...	8	8	
							Ditto				The crop was affected by floods. A further damage of two annas was done to the crops of the Madaripore sub-division since the first forecast.
							Early paddy— Paranchi ... ... Karchamuri ... ... Gareswar ... ... Kedachak	...			
	Goalundo ...	428	321	142	142	142	Kumrail ... ... Pakhiraj ... ... Bimnaful ... ... Satia ... ... Lakhijata ... ... Kaijuri ... ... Sada	7	7	6	
	District Total ...	2,267	1,575	292	260	260	.....	About 8	8	8	
BACKERGUNGE ...	Sudder ...	1,111	698	130	150	130	Aus		12	16	Floods interfered to some extent with sowings in the Sudder. In general rainfall has been normal, and a full average crop has been reaped.
	Perozepore ...	692	503	90	90	90	Aus		12	16	
	Patuakhali ...	1,231	500	46	46	46	Aus		14	16	
	Bhola ...	615	400	100	100	100	Aus		16	16	
	District Total ...	3,649	2,098	368	386	386	... ...		13½	16	
MYMENSINGH ...	Sudder ...	1,849	1,070	370	270	370	Early paddy— Hapa ... ... Boalia ... ... Boron ... ... Balaun ... ... Gayal	...	16	14	Two annas has been lost owing to excessive rain during the sowing time and also owing to the early rise of the river with high floods.
	Tangail ...	1,041	780·75	295	293	295	Bhadiari, &c Aus paddy		10	12	The yield of the aus crop was fair in spite of the early high rise of the rivers.
	Jamalpore ...	1,244	930	277	277	277	Early paddy— Chitri ... ... Gayal ... ... Balaram ... ... Baran ... ... Daria ... ... Jabarshail ... ... Subarna khariks, &c.	...	12	13	Four annas lost on account of excessive rain after the sowing season.
	Netrokona ...	1,389	694	105	105	105	Early paddy— Bogi ... ... Boalia ... ... Bhadua ... ... Gayal, &c.	...	12	16	Some damage having been caused by heavy rain at the harvesting time, the outturn has been estimated to be 16 annas, otherwise it would have been about 18 annas.
	Kishoregunge ...	744	350	100	80	80	Aus paddy		12	13	Excessive rainfall at the sowing and harvesting season caused some damage. The crop was not affected by floods.
	District Total ...	6,267	3,824·75	1,147	1,025	1,137	.....		12½	13	

* The total area estimated to be under cultivation (272 square miles) excludes the area under tea.

1	2	3	4	5	6	7	8	9	10	11	12
District.	Subdivision.	Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Name of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
TIPPERAH ...	Sudder	1,142	856	171·3	171·3	171·3	Early paddy— Kamini shail ... Kali do. ... Dhali do. ... Kacholani ... Bailam ... Muri ...	14	12	Owing to excessive rain and inundation the crops were partially damaged in some places at the harvesting time.	
	Brahmanberia ...	769	553	138·42	138·42	138·42	Early paddy— Jeto jali ... Asari do. ... Satia do. ...	18	12	Frequent rains during the time of sowing and weeding and the flood reduced the yield.	
	Chandpore ...	580	415	60	60	60	Aus paddy	16	14	Flood in harvesting time reduced the yield.	
	District Total ...	2,491	1,824	369·72	369·72	369·72	.....	16	About 13		
NOAKHALLY ...	Sudder	1,298	1,000	238	324	238	Early paddy— Sholoi ... Green ... Bailam ... Sultanbhoog ... Shatia ... Kalimooga ... Harali ...	15	10	Excessive rain in March while sowing was going on, and in July and August while the crops were being cut and harvested, affected the outturn.	
	Feneg	343	280	85	85	85	Early paddy— Chegaal ... Sholoi ... Shatia ... Bailam ... Bhadori ...	12	12	The crop has been damaged by excess of rain, flood and insects, to the extent of four annas.	
	District Total ...	1,641	1,280	323	409	323	.....	13½	11		
CHITTAGONG ...	Sudder	1,630	611·25	152·8	152·8	115	Early paddy— Bailam ... Chiknal ... Khaia ... Shaitha ...	18	12	Heavy rainfall in June and July affected the crop injuriously, and the yield has not been more than 12 annas this year.	The cause for the decrease in the area sown this year, as compared with the normal area under bhadoi crops, is not shown.
	Cox's Bazar ...	937	654·68	20·15	20·15	20·15	Early paddy— Pania paddy ... Khaia ...	18	18	This has been a favourable season.	To judge from the rainfall records there was no excess of rain in the Chittagong district in June; the recorded fall in this month was short of the normal at every station except Cox's Bazar, where the excess amounted to only 1 inch. At Chittagong the difficiency was nearly 6 inches, and the number of rainy days fewer in the month
	District Total ...	2,567	1,266·03	172·95	172·95	135·15	.....	18	15		In July the fall was excessive, being 49·23 against 28·22 inches.

Jessore	Jhenidah	475	317	60	60	60	Aus paddy	12	6	The early inundation has destroyed the greater part of the aus paddy which was about to be harvested. In the second forecast of jute, 16 annas were shown to be the estimated outturn, but the early inundation has since destroyed about 3 annas of the crop; hence the difference.
							Jute	12	13	
	Narail	487	253	30	30	28	Aus paddy	8	6	Early rise of water first destroyed the plants when they were young, and subsequent flood destroyed the ripe paddy.
	Magurah	425	268	84	84	84	Aus paddy	6	8	The crops were affected by excess of rainfall at harvesting time and by flood.
							Jute	12	14	
							Til	4	8	
							Indigo	13	6	
	District Total ...	2,925	1,742	578	578	576	.....	11	10	
Moorshedabad ...	Sudder	767	576	320	320	320	Aus paddy	8	4	
	Lalbagh	372	223	7½	7½	7½		8	6	
	Jungipore	508	351	120	120	120	Aus paddy	10	9	Deficiency of rain at ploughing and sowing time caused late sowings. Floods caused most damage being early, and catching the crop which was late, on account of the sowings being late.
							Shama			
							Kodo			
	Kandi	512	353	41	41	36	Early paddy—			
							Sandhomain ...			
							Guni			
							Turi	8	7	
							Chabiru			
							Jamra			
							Jhanti			
	District Total ...	2,159	1,503	555	555	550	.....	9	7	
Dinagepore ...	Sudder	4,118	2,600	200	200	200	Aus paddy	8½	18	Last year the estimated area under bhadoi crops was shown in the bhadoi forecast as 440, which I find on enquiry to be too large.
	Thakurgaon ...							6	18	There has been some loss by flood; but when the crop has been secured, it has been better than I anticipated, and the estimate of 18 annas, I think, is pretty correct.
	Whole district ...	4,118	2,600	200	200	200	.....	7	18	
Rajshahye ...	Sudder	944	588	273	249	273	Aus paddy	12	10½	Owing to the timely rainfall both at the ploughing and sowing seasons, the outturn this year was expected to be a good one, but early floods had greatly injured the crops.
							Jute	.....	.....	
							Boro paddy	.....	14	
							Kaon	10	10	
	Nattore	817	612	153	213	200	Til (gingelly)	10	8	
							Kaon	7	8	
							Jute	8	14	
							Aus paddy	10	14	
	Nowgong	603	500	250	250	250	Jute	12	16	
							Aus paddy	16	14	
							Til (gingelly)	8	16	
							Kaon	8	12	
	District Total ...	2,364	1,700	676	712	723	.....	11	12	
Rungpore ...	Sudder*	1,151	909	290	290	290	Aus paddy	16	16	Unusual rains have damaged the crops to some extent.
							Jute			
	Nelphamari ...	638	480	115	120	115	Aus paddy	14	14	
							Jute			
	Kurigram ...	937	700	400	400	360	Aus paddy	13	15	
							Jute			
	Gaibanda ...	760	580	440	330	285	Aus paddy	14	15	
							Jute			
	District Total ...	3,486	2,660	1,245	1,040	1,050	.....	15	15½	
Bogra	Whole district ...	1,432	913	220	220	220	Aus	13	16	Plenteous rain fell during the spring enabling ryots to get on well with their ploughing. The seed of both the crops germinated well and the later rains fully matured them. Some loss was caused by floods, but they came too late to destroy much of these crops. In respect to the outturn, later information has resulted in slight changes. The figures in columns 5, 6, and 7, and this year's estimated outturn of aus, have been revised on further enquiries being made.
				120	120	140	Jute	10	16	
		1,432	913	340	340	360	.....	11½	16	

* This includes Sunderbuns, 2,772·91 square miles appertaining to this district.

† During the current year Char Murchadear, having an area of about 30 square miles, was transferred from Rajshahye district to Kushtea subdivision; hence the increase.

1	2	3	4	5	6	7	8	9	10	11	12
District.	Subdivision.	Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas, to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
Pubna	Pubna	1,847	1,462	536	666	496	Aus	7	10	Excessive rainfall and high floods damaged the crops at harvesting time. The estimate has been reduced owing to damage by high floods.	
	Serajgunge						Jute	13	14		
Darjeeling	Sudder, including Kalimpong.	726	92	47	45	47	Maize paddy Marua Kaon Fafar (?)	13	12	Owing to the very heavy and incessant rains the outturn is one anna less than that of last year.	Maize, marua and potatoes are known to be grown in the hills within the jurisdiction of Kurseong. The area under these crops is evidently left out in estimating the total area under cultivation.
	Kurseong	185	Very little; about 8 acres, or ·01 square mile only, is under cultivation.				Paddy	12	12	On account of sufficient rainfall at the time of sedeing, the outturn is good.	
	Siligooree	253	180	85	100	100	Jute Paddy Marua Maize	15	10	Excessive rainfall from the very beginning of the season was a great obstacle to the full growth and development of the plants; consequently the outturn is much less than the average.	A 12 anna crop in Kurseong cannot be said to be a good one. The crops are likely to have been damaged by excessive rainfall.
	District Total	1,164	272*	132	145	147	.....	More than 13	About 12		
Julpigoree	Bykantpore	447	298	138	138	138	Early paddy— Shoni Jonera Jute	12	14 8	Rainfall has been heavy, but well distributed so far as the rice crop is concerned. Jute was adversely affected at the commencement of the season.	
	Boda	402·72	295	85	85	90	Betri paddy Jute	7 10	14 11		
	Patgram	86·88	75	18	18	20	Betri paddy Jute	10 10	14 11		
	Mynaguri	524	219	62	54	78	Aus paddy Jute	12 12	14 12		
	Alipore	649	200	30	25	30	Early paddy— Kaladamra Dhaladamra Kanaibasi Jute	11 8	12 10		
	Fallakota	496	170	20	20	20	Early paddy— Nilpai Maisara Sesapol Jute	8 16	12 12		
	Bhalka	132	44	·5	·5	·3	Early paddy— Maldai Jute	12 12	12 14		
	District Total	2,737·60	1,301	353·5	340·5	376·3	.....	11	12		
	Sudder	1,266	633	211	211	211	Early paddy, viz.— Gorfa Moochakani Shail Kalamanick Poranghi Sharta Kalathore Pankaich Jute Grass Sugarcane	14 14 16 11	12 12 14 8	The unusual rise of the rivers has affected every crop. It has damaged the jute crop on low lands and the grass to a greater extent than was anticipated in the preliminary forecast.	

Chittagong Hill Tracts.	Sudder	3,583·5	43·25	36	37·45	35·50	Jum paddy	10	10	In many cases jum cutting this year was retarded as the hill-people were engaged in cooly work; consequently almost all jums cut later were not sufficiently burnt. Incessant rain too throughout the season has washed away the earth from the roots of the plants and promoted weeds. These causes have reduced the outturn to some extent.	In the latter half of June and in July the rainfall was very heavy and incessant in the Patna district except ing Barh where the excess was not appreciable.
							Cotton	6	8		
	Sungoo	1,835·5	23·86	18	18·76	18·5	Jum paddy	10	10		
							Cotton	6	8		
	District Total ...	5,419	67·11	54	56·21	54	Jum paddy	10	10		
							Cotton	6	8		
Patna ...	Sudder	617	457	62	62	60	Maize	15	2	The poor outturn is due to flood and excessive rain throughout the season.	
							Marua				
	Dinapore	143	(a)118	30	30	25	Maize	7½	4	The excessive rainfall throughout the season and high floods at harvesting time caused great injury to the crops.	
							Kodo				
							Paddy				
							Marua				
	Barh	526	(a)405	70	(a)86	65	Maize	10	6	Floods destroyed the crops when the plants had grown and were thriving. In the former estimate 4 annas was put down as the probable outturn, but the janera having been resown after the subsidence of the flood, the outturn has increased by 2 annas.	
							Marua				
							Kodo				
							Janera				
							Jowar				
	Behar	783	575	194	(a)194	194	Marua	15	2	The crops were damaged by excess of rain during the sowing time.	
							Maize				
							Kodo				
							Kaon				
	District Total ...	2,079	1,555	356	372	344	.....	12	3½		
Gya	Sudder	1,839	1,434	143	143	172	Marwa	16	2	Excess of rain and floods after sowing season caused the decrease of outturn. Favourable rain at the ploughing and sowing time raised hopes, and the sugarcane fields were brought under bhadoi. The approximate increase in area is estimated at one-fifth more than that of last year.	
							Maize				
							Marua				
	Arungabad ...	1,246	747	37	40	25	Kodo	14	4	The excessive and almost continuous rainfall of the present season interfered with every operation connected with the cultivation of bhadoi.	
							Urid pulse				
							Barsi do.				
							Sathi paddy				
	Jehanabad ...	607	503	50	50	30	Maize	16	2	The large decrease in the bhadoi crops is due to the excess of rain from the very beginning of the year and of flood-water in most parts of this sub-division.	
							Marua	16	3		
							Sathi paddy	16	2		
	Nawada	1,020	765	106	100	80·5	Maize	14	4	Owing to the incessant rainfall the bhadoi crops were much injured.	
							Marua				
							Tanguni				
							Sathi paddy				
							Sama				
	District Total ...	4,712	3,449	336	233	307·5	.....	15½	3		
Shahabad ...	Arrah	915	778	129	75·75	43·5	Serha paddy	8	2	All bhadoi crops, except serah and sathi, in two thirds of the sub-division have been affected by excessive and continuous rain both at ploughing and sowing time, and one-third of the crops near the Ganges has been washed away by flood.	
							Sathi do.				
							Marua				
							Janera				
	Buxar	656	563	83	83	83	Serha paddy	12	8	All the crops, except serha and sathi, have suffered this year in general on account of excessive rainfall after they were sown and well germinated. In the tracts lying along the river Ganges, the crops have partly been washed away, and partly submerged by the unusual flood.	
							Sathi do.		7		
							Marua		.....		
							Sama		.....		
							Bajra		.....		
							Tangun millet		.....		
							Janera		.....		
							Kodo		.....		
							Urid		.....		
							Til		.....		

(a) These figures differ from those shown in last year's return. They have since been correctly ascertained and supplied by the Sub-divisional Officers.

1	2	3	4	5	6	7	8	9	10	11	12
District.	Subdivision.	Total area of subdivision in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
Shahabad—*concld.*	Bhabua	1,301	976	123	120	115	Serha paddy				
							Sathi do.		2	The crops were affected by excessive rainfall at the time of sowing as well as afterwards, and also by flood in the country to the north of the Grand Trunk Road.	
							Sama	13			
							Marua				
							Maize				
	Sasseram	1,493	850	87	78	68	Serha paddy				
							Sathi do.		6	The deficiency in the outturn is due to excess of rain-water at the time of sowing, and subsequently the crops suffered a good deal from floods in low lands and excessive and constant rain.	
							Sama	14			
							Maize				
							Tangun millet ...				
	District Total ...	4,365	3,167	421	356·75	309·5	.....	13	3	The Subdivisional Officer reports that from his personal enquiry it appears that Rohtas pergunnah had an outturn of 14 annas which has increased the estimate.	
Durbhunga ...	Sudder	1,222	929	292	292	292	Marua				
							Maize				
							Gamri paddy	18	12		
							Aus				
							Shama				
							Kaon			The bhadoi crops were sown under most favourable circumstances, but excessive rainfall and floods in August affected the outturn.	
	Samastipore ...	764	611	336	300	318	Maize				
							Marua	18	18		
							Sama				
	Madhubani ...	1,349	1,100	310	270	200	Maize				
							Marua		10		
							Gamri paddy	14 to 18			
							Sathi				
	District Total ...	3,335	2,690	936	862	810	.....	About 17	About 13		
Mozufferpore	Mozufferpore ...	1,218	957·83	265·57	265·57	265·57	Maize				
							Marua				
							Urid				
							Kodo				
							Kaon	6	8	Later reports show the outturn to have been better than at first anticipated. The excessive rainfall and floods caused serious alarm at the prospects of the crops, and led to the formation of a lower estimate of the outturn than the facts really warranted.	
							Sama				
							Cheena				
							Jenera (jowar) ...				
	Hajeepore ...	771	529·6	308·4	308·4	308·4	Maize				
							Marua				
							Sama				
							Kodo	10	4	The former estimate of six annas was my own, but in view of the Subdivisional Officer's report and of the destruction of the crops over a large proportion of the area shown in column 7, I accept the local estimate of four annas.	
							Kaon				
							Urid				
							Cheena				
							Janera (jowar) ...				
	Sitamarhi	1,014	770·64	300	289	300	Maize				
							Marua				
							Gamri paddy				
							Aus do.	16	8	Floods after the last report, together with heavy rain, caused further damage and reduced the outturn.	
							Kodo				
							Kaon				
							Sama				
	District Total ...	3,003	2,257·24	873·97	863·97	873·97	.....	More than 10	6½		

SARUN ...	Sudder	998	849	291	291	291	Maize ... ... Marua ... ... Sama ... ... Sathi paddy ... ... Kodo ... ... Tanguni millet ... Cheena ... ... Urid pulse ... ... Bajra	10	2	The weather was favourable at ploughing and sowing time, but the crops were subsequently damaged by heavy and continuous rainfall. This would have reduced the outturn to a 4-anna crop everywhere, but there were very heavy floods in many places which reduced it to two annas all over the sub-division. These lands have now been sown with rubi, which gives excellent prospects.	
	Sewan	853	693	145	145	125	Maize ... ... Sama ... ... Tanguni ... ... Marua ... ... Sathi paddy ... ... Kodo ... ... Musori ... ... Bajra	10	3	In consequence of excessive rainfall at sowing time, the bhadoi crops were much affected. The south-west part of the sub-division was entirely inundated by floods which swept away all the crops. The rainfall during the harvesting time damaged the crops still more.	
	Gopalgunge ...	771	550	300	249	297	Maize ... . Marua ... ... Sama ... ... Tanguni... ... .. Cheena ... ... Urid ... . Bajra ... ... Jowar ... . Paddy	14	5	The crops were very much injured by excessive rainfall at the end of July and beginning of August.	
	District Total ...	2,622	2,092	736	685	713		11½	3½		
CHUMPARUN ...	Motihari	1,518	1,022	662*	662	662	Saro and bhandh paddy Maize ... ... Marua ... ... Kodo ... . Sama ... ... Tanguni ... ... Urid pulse	10	12 4 8 8 8 8 8	Excessive rainfall and floods in the months of July and August rendered the outturn poor.	
	Bettiah	2,013	1,200	500	500	500	Maize ... ... Marua ... ... Bhandh and saro paddy Kodo	12	8	Ditto ditto.	
	District Total ...	3,531	2,222	1,162	1,162	1,162		11	8		
MONGHYR ...	Sudder	1,559	1,091	500	500	500	Maize ... ... Cheena .. .. Marua ... ... Kheri ... ... Kaon	9	6	The crops were damaged by high flood and heavy rain.	
	Begusarai ..	769	577	515	515	515	Maize ... ... Marua ... . Kodo ... ... Kaon ... ... Sama ... ... Janera (maize) ... Urid pulse ... .. Chota janera (jowar) Moong pulse	9	5	About 11 annas of the bhadoi crops was damaged by the excessive rain and the flood of the Ganges, Gunduck, and Ballan rivers.	
	Jamui	1,593	1,062	266	266	266	Marua .. .. Cheena ... ... Kheri ... ... Kaon ... ... Kodo ... . Boro paddy	14	3	Excess of rainfall at the ploughing and sowing time damaged the crops.	
	District Total ...	3,921	2,730	1,281	1,281	1,281		10	5		
BHAGULPORE ...	Sudder	936	655	175	165	170	Janera ... ... Cheena ... ... Kheri	8	8	The crops were injuriously affected by excessive rainfall at sowing time and by floods in August and September.	The rainfall was considerably in excess, not only at harvest time, but all over the season since the middle of June.
	Banka	1,185	888	355	355	355	Janera ... ... Marua ... ... Sathi paddy	12	8	The short outturn is due to deficient rainfall at the ploughing and sowing time.	

* This area is twice cropped, being sown with bhadoi and rabbi in succession.

1	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crop.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Names of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
BHAGULPORE —*contd.*	Madhepura ...	872	566	175	175	175	Marua	Annas. 10	Annas. 12	Marua has been affected by excess of rainfall at harvest time, and bhadoi paddy was slightly damaged by heavy flood.	In Madhepura the rainfall was in excess in June (13·61 against 9·31); in July it was still heavier (23·5 against 12), but there was plenty of fine weather, the number of rainy days being only 13 against 15·4; hence the bhadoi crops did not suffer so much here as in other parts of the district from excessive rainfall. In August the fall was normal with plenty of fine weather. There was no rain in the first-half of September. It does not therefore appear how marua harvest can have been interfered with by excess of rainfall at harvest time. The injury was probably caused by excess in June and July.
							Bhadoi paddy	16	16	Insufficient rainfall at ploughing time, unequal distribution at the sowing time, and continued rain in July and August, caused injury to marua plants; but the conditions were beneficial to the bhadoi paddy, which was further improved by a good deal of hatua rain. The estimated outturn of this crop has been therefore increased by 2 annas.	
	Socpole ...	1,275	954	280	239	239	Bhadoi paddy	16	16		
							Marua	8	8		
	District Total ...	4,258	3,065	985	934	939		About 13	About 12		
PURNEAH ...	Sudder ...	2,572	1,500	700	643	650	Aus paddy	8	12	The rainfall was on the whole favourable both in ploughing and sowing time, but damage was done at the harvesting time by flood caused by excess of rainfall. This caused the deficiency of four annas.	The rainfall in the Sudder and Kissengunge sub-divisions was very heavy in June (20·1 and 25·4 against 10·8 and 15·3 inches respectively) and moderately heavy in July; but no injury from this excess is noticed by the Collector.
							Mung				
							Marua				
							Sama				
	Kissengunge ...	1,340	900	180	130	153	Aus paddy	12	14	.....	
							Marua				
							Sama				
							Maize				
	Arrareah ...	1,044	600	150	130	140	Aus paddy	10	14	Timely fall of rain benefited the crops. Had it not been for the floods in thana Motiari and a part of thana Ranigunge, the outturn of this year's crops would have been a bumper one.	
							Marua				
							Sama				
							Moong				
	District Total ..	4,956	3,000	1,030	903	940		10	More than 13		
MALDAH	Whole district ...	1,902	1,008	425	423	425	Bhadoi paddy ..	8	6	Just after sowing, the crops suffered to some extent from the rains being partial, and when earing, the unusual and untimely inundations damaged them to a great extent. Jute and mulberry were not so much damaged as was originally expected.	The cause of the low outturn is not understood. In June and July the rainfall was nearly normal, and there was no unusual stretch of rainless weather. The injury from inundation to the winter rice crop appears from the winter rice forecast to have been small; it should be less in the case of upland *bhadoi* crops.
							Shama		6		
							Kheri		6		
							Maize		6		
							Jute	8	15		
							Mulberry	8	15		
		1,902	1,008	425	422	425		8	9		
SONTHAL PERGUNNAHS.	Dumka	1,429	710	340	354	389	Gundli	14	6	The excessive rain has done considerable injury to maize.	
							Maize				
							Marua				
							Kodo				
	Deoghur	954	258	40	40	40	Maize	16	4	Ditto ditto.	
							Gondli				
							Marua				
	Godda	967	676	200	135	125	Maize	10 to 12	8	Ditto ditto.	
							Jati dhan				
							Gondli				
							Marua				
	Rajmehal	740	555	104	104	104	Maize	12	13	Ditto ditto.	
	Pakur	633	511	170	170	170	Moong	8	6	The moong has been affected by excess of rain, and the aus rice destroyed by floods.	
							Aus rice				

	Jamtara	696	195	50	50	45	Maize ... ... Gondli ... ... Marua ... ... Kodo	17	12	The crops were damaged by excessive rain.
	District Total ...	5,469	2,905	924	853	873		13	8	
CUTTACK ...	Sudder	989	772	190	190	178	Beali jute and mandia paddy.	18	12	The outturn of beali crop is below average in all the sub-divisions except Banki. This is due to the fact that the crop suffered much for want of rain at the time of maturity.
	Banki	116	60	10	10	10	Beali and mandia ...	16	16	
	Kendrapara ...	1,424	641·5	101	97·25	98	Beali (early and bara)	10	12	
	Jajpore	1,104	500	50	50	50	Beali paddy	16	9	
							Mandia	20	16	
							Now Biri	20	16	
							Jute	12	12	
	Angul	.....	.....	.....	.....	.....	Early paddy	.....	12	
							Maize	.....	4	
							Shama	.....	2	
	District Total ...	3,633	1,973·5	341	337·25	336		15	About 12	
BALASORE ...	Sudder	1,158	670	35·5	35	35·5	Beali rice	12	12	Deficient outturn is due to insufficient rain in August, *i.e.* at the time when the crops were in ear.
	Bhudruck ...	908	720	140	140	140	Ditto	16	12	
	District Total ...	2,066	1,390	175·5	175	175·5		14	12	
POOREE	Sudder	1,530	720	74	74	64	Beali paddy	14	12	Owing to excessive rain at the time of sowing and harrowing, this year's bhadoi crops could not be harrowed and weeded in proper time, and hence the outturn is short.
							Mandia paddy ...	14	10	
							Ditto		14	The Khurda crop had good weather for harvesting and did better than was expected.
	Khurda	990	415	144	144	144	Kulthi pulse	14	14	
							Kali ausu		14	
	District Total ...	2,520	1,135	218	218	208		14	13	
HAZARIBAGH ...	Hazaribagh ...	4,575	2,593	882	882	882	Maize ... ... Marua ... . Gondli ... ... Barai pulse ... ... Ghangri ... ... Urid pulse ... .. Saithi paddy ... ... Gora ... ... Dighio	15	5	The excessive rainfall in ploughing, sowing and harvesting time has prejudicially affected the bhadoi crops, especially the maize. The excessive rainfall in the harvesting time further reduced the outturn in the Giridhi sub-division.
	Giridih	2,446	1,280	282	282	282	Maize ... ... Marua ... ... Gondli ... . Barai ... . Kodo ... ... Urid ... . Sathi ... ... Gora	17	6	
	District Total ...	7,021	3,873	1,164	1,164	1,164		16	5	
HARDUGGA ...	Sudder	7,784	1,662	216	274	224	Maize ... ... Gondli ... ... Gora paddy ... ... Urid pulse ... ... Barai ,, ... Marua ... ... Bodi	13	14 15 14 14 12 14 15	Rainfall was generally favourable.
	Palamow	4,260	2,000	400	426	400	Maize ... ... Sama ... ... Marua ... . Kodo ... ... Urid ... ... Gondli	16	8	In the first report the outturn was estimated at 14 annas, but subsequently it was ascertained that only eight annas was gathered. This falling off is due to heavy rainfall in the beginning of the season.
	District Total ...	12,044	3,662	616	700	624		More than 14	11	

1	2	3	4	5	6	7	8	9	10	11	12
District.	Sub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square miles.	Approximate normal area under bhadoi crops.	Approximate area under last year's bhadoi crops.	Estimated area under this year's bhadoi crops.	Name of principal bhadoi crops.	Taking 16 annas to represent the average outturn, how many annas represented last year's outturn.	Taking 16 annas to represent the average outturn, how many annas will represent this year's outturn.	Remarks by the District Officer.	Remarks by the Agricultural Department, Bengal.
								Annas.	Annas.		
Manbhoom	Sudder	3,344	1,300	150	120	150	Gora paddy	18	16		
							Maize	14	8		
							Kodo	16	12		
							Gondli		12		
							Kheri pulse		12		
							Biri pulse		18	Excess of rainfall at ploughing and sowing-time has injured the crops.	
	Gobindapur	803	310	40	29	40	Maize	12	6		
							Marua	16	12		
							Kodo		12		
							Gondli		12		
							Kheri pulse		8		
							Biri pulse		12		
	District Total	4,147	1,609	190	149	190		About 16	About 12		
Singbhoom	Kolhan	1,946	973	450	450	400	Gora paddy	18	16	The yield would have been a bumper one but for insufficient rain during ripening time.	
							Maize				
							Gondli				
							Til				
							Moong				
							Biri				
	Porahat	660	247	61	61	50	Gora paddy	15	16		
							Til (gingelly)				
							Moong pulse				
							Biri				
							Maize				
							Gondli				
							Kaon				
							Kheri			Excessive rain during the sowing-time affected the maize crop.	
	Dhalbhoom	1,147	573	143	143	120	Aus paddy	18	20		
							Maize				
							Til (gingelly)				
							Moong pulse				
							Kaon				
							Biri				
							Gondli				
	District Total	3,753	1,793	654	654	570		17	17		
	Total for all Bengal	152,840·81	86,968·88	23,765·14	23,059·85	22,763·64		10	10		

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 20th December, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
	BURDWAN DIVN.		
1	Burdwan Dec. 20, '90	Nil	Weather—fair and cold. *Amun* being harvested; outturn good. Sugarcane and *rubbi* crops doing well. Prices of common rice:— Srs. Sudder ... ... 18½ Culna ... ... 17 Cutwa ... ... 18 6/16 Ranigunge ... ... 18 } per rupee.
2	Bankoora ,, 20, '90	Nil	Weather—seasonable. Harvesting of *amun* continues; outturn average. *Til* is being cut. Wheat, mustard, pulses, and sugarcane thriving. Common rice selling at 20 seers per rupee at Sudder and 21 seers at Bishenpore.
3	Birbhum ,, 20, '90	0·22	Weather—bright and clear. Rice harvest is being fast gathered in. Price of common rice from 19 to 22 seers per rupee.
4	Midnapur ,, 20, '90	Nil	Weather—seasonable but not so cold as it should be. Paddy is being reaped; outturn expected to be 16 annas in the Tumlook subdivision and 12 annas in the Contai subdivision. *Rubbi* and indigo doing well. Prices of common rice:— Srs. Contai ... ... 18 Tumlook ... ... 17½ Ghatal ... ... 17 Sudder ... ... 18 } per rupee.
5	Hooghly ,, 20, '90	0·14	Prospects of crops continue good. Prices stationary. Prices of common rice:— Srs. Sudder ... ... 14 or 15 Serampore ... ... 14 Jehanabad .. .. 16¾ } per rupee.
	Serampore ...	0·91	
6	Howrah ,, 20, '90	0·16	Weather—seasonable. Reaping of *amun* crop continues. Harvest good. Price of common rice 14½ seers per rupee.
	Uluberia ...	0·19	
	Central Districts.		
	PRESIDENCY DIVS.		
7	24-Perghs. Dec. 20, '90	Nil	Weather—seasonable. Harvesting of winter rice proceeding; an excellent crop obtained almost everywhere. *Rubbi* crops progressing satisfactorily. Prices stationary.
8	Nuddea ,, 20, '90	Nil	Weather—seasonable. Winter crops doing fairly well. Harvesting of *amun* rice nearly finished.
9	Khoolna ,, 20, '90	Nil	Weather—cold. Harvesting of *amun* going on; prospects favourable except in flooded parts.
10	Jessore ,, 20, '90	0·03	Weather—seasonable. Harvesting of winter rice in progress. Prospects of spring crops continue favourable.
	Narail ...	0·05	
11	Moorshedabad ,, 20, '90	Nil	Weather—cold. *Amun* is being harvested. Prospects of *rubbi* favourable. *Kalai* doing well.
	RAJSHAHYE DIVN.		
12	Dinagepur ,, 20, '90	Nil	Weather—seasonable. Prospects of crops continue good. Price of rice unchanged.
13	Rajshahye ,, 20, '90	Nil	Weather—seasonable: fair and cold. *Amun* and sugarcane being harvested. Mustard flowering. Ganja plants improving. Prospects of other winter crops good.
14	Rungpur ,, 20, '90	Nil	Clear cold weather. Tobacco is being planted. Sugarcane is being cut. *Amun* is being reaped. Prospects generally good.
15	Bogra ...	...	Report not received.
16	Pubna ,, 20, '90	Nil	Weather—cool. Prospects of crops generally good. Tobacco has mostly failed.
17	Darjeeling ,, 20, '90	Nil	Weather—cold and misty. Winter rice is being harvested. *Rubbi* crops doing well. Prospects good.
18	Julpigoree ,, 20, '90	Nil	Weather—getting cool. Prospects of all crops favourable. Harvesting of *hatmanti* paddy going on. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
DACCA DIVN. 19	Dacca Dec. 20, '90	Nil	Weather—seasonably cold. Harvesting of *amun* continues. Sowing of winter crops completed. Price of common rice from 14 to 18 seers per rupee.
20	Furreedpur ,, 20, '90	Nil	Weather—seasonable. Harvesting of *amun* paddy nearly finished. State of winter crops fair. Common rice selling at from 16 to 18 seers per rupee.
21	Backergunge ,, 20, '90	Nil	Weather—seasonable. Prospects of crops fair. New common rice selling at 16 seers per rupee.
22	Mymensingh ,, 20, '90	Nil	Weather—cold. Harvesting of *amun* paddy continues. A flight of insects reported from the Netrakona subdivision. Prospects of crops continue to be good. Common rice selling at 16½ seers per rupee.
CHITTAGONG DIVN. 23	Chittagong ,, 20, '90	Nil	Weather—seasonable. Cultivation of vegetable crop over. State and prospects of *amun* very good. Prices stationary.
24	Noakholly ,, 20, '90	Nil	Weather—seasonable. Harvesting of *amun* continues. *Rubbi* crops doing well. Good rice is being sold at 19 seers per rupee in the Fenny subdivision.
25	Tipperah ,, 20, '90	Nil	Weather—seasonable. *Amun* is being cut. Reaping will be over in a few days. Cold-weather crops prospering.
26	Chittagong Hill Tracts. 18, '90	Nil	Weather—seasonable: very cold throughout the week. Harvesting of cotton still continues. Gathering of late rice continues. Mustard, tobacco, and other cold-weather crops progressing. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.			
PATNA DIVN. 27	Patna ,, 20, '90	Nil	Weather—cold. Harvesting of paddy and *jowar* going on. Prospects of *rubbi* crops continue good, but rain is wanted. Sugarcane is being pressed. Poppy growing well. Prices of food-grains show a tendency to fall.
28	Gya ,, 20, '90	Nil	Weather—cold. Paddy harvest going on. *Rubbi* and poppy prospering. Prices of food-grains falling.
29	Shahabad ,, 20, '90	Nil	Weather—cool and bright. State of all crops good. Prices falling.
30	Durbhunga ,, 20, '90	Nil	Weather—cool. Harvesting of rice in progress. *Rubbi* crops look promising, but a few showers of rain will be beneficial to them. Mustard in flower. Poppy and tobacco doing well. Common rice selling at from 14 to 19 seers per rupee.
31	Muzufferpur ,, 20, '90	Nil	Weather—seasonably cold. Harvesting of paddy in progress. *Rubbi* crops look well. Prospects of poppy continue good.
32	Sarun ,, 20, '90	Nil	Weather—seasonable. Paddy harvesting nearly finished. Prospects of all winter crops very good.
33	Chumparun ,, 20, '90	Nil	Weather—cold; a little foggy in the morning and evening. Harvesting of paddy progressing. *Rubbi* and poppy doing well. Poppy is being weeded and needs irrigation in places. Price of common rice falling owing to the new harvest.
BHAGULPORE DIVN. 34	Monghyr ,, 20, '90	Nil	Weather—cold and dry. Harvesting of winter rice vigorously going on. Prospects of *rubbi* and poppy continue favourable.
35	Bhagulpore ,, 20, '90	Nil	Weather—seasonable. Harvesting of rice going on satisfactorily. Prospects of *rubbi* crops good.
36	Purneah ,, 20, '90	Nil	Weather—cold. Harvesting of *aghani* paddy still continues. *Rubbi* crops progressing well.
37	Maldah ,, 20, '90	Nil	Weather—seasonable. Harvesting of winter rice continues with favourable outturn. Gathering of *kalai* in progress. *Rubbi* crops and *boro* seedlings thriving. Common rice selling at from 14 to 20 seers per rupee.
38	Sonthal Perghs. ,, 20, 90	0·14	Weather—cool. Harvesting of rice crop in full progress; outturn will be above the average. Prospect of *rubbi* crops very promising.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
39	Cuttack Dec. 20, '90	Nil	Weather—seasonable. *Mung* in flower and doing well. Planting of tobacco continues. General prospects good.
40	Pooree „ 18, '90	0·20	Weather—seasonable. *Sarad* crop is being harvested. *Dalua* crop is being sown. Miscellaneous crops doing well. Price of common rice from 21 to 28 seer per rupee.
	Khoorda ...	1·39	
	Banpur ...	1·17	
41	Balasore „ 20, '90	0·46	Weather—still warm. Outturn of *sarad* or early winter rice may be taken at 13 annas.
CHOTA NAGPORE.			
South-West Frontier Agency.			
42	Hazaribagh Dec. 20, '90	Nil	Weather—cold and seasonable. Harvesting of winter rice continues. Prospects of *rubbi* crops and poppy continue favourable. Prices stationary.
43	Lohardugga „ 20, '90	Nil	Weather—cloudy. Harvesting of winter rice still continues. *Rubbi* seedlings suffering for want of rain. Prices steady.
44	Singbhoom „ 20, '90	0·39	Weather—cloudy; warm for the season; slight rain on the 14th and 19th. All winter crops doing well; full outturn expected. Paddy is being harvested; outturn 16 annas everywhere except in thana Chakradharpur, where 8 to 12 annas crop expected. Prices stationary.
45	Manbhoom „ 20, '90	Nil	Weather—seasonable. Harvesting of paddy nearly over; outturn full. All other crops doing well. Common rice selling at from 22 to 27 seers per rupee.
	Govindpore ...	0·29	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 23rd December, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

QUANTITIES PER RUPEE IN

Number.	DISTRICTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum Vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	BENGAL.															
	Western Districts.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	14 0	12 8	13 4	...	...	...	13 2	12 12	10 0	17 1	16 11	12 5	...	...	...
2	Bankoora	14 0	13 12	13 12	17 8	17 0	14 0	18 8	17 8	15 0	21 4	20 0	18 0		...	...
3	Beerbhoom	16 0	16 8	15 0	...	...	...	16 0	13 8	13 0	19 8	18 0	15 0	...	...	...
4	Midnapore	10 8	10 8	12 8	...	...	...	15 0	13 0	11 0	20 0	18 0	16 0	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	..	...	...
6	Howrah	...	...	...	...	...	...	11 0	10 0	9 8	16 0	14 8	12 8	.	...	..
	Central Districts.															
	Calcutta	12 14	12 14	13 8	18 11	18 1	16 11	8 15	8 12	8 8	14 4	13 1	13 5	...	16	14 12
7	24-Pergunnahs	13 0	13 0	13 5	17 0	17 0	16 0	8 0	8 0	7 8	16 0	15 0	15 0	...	...	...
8	Nuddea	15 4	15 4	15 0	16 0	16 0	17 12	11 13½	11 13½	10 10½	15 9½	15 9½	12 6	...	.	...
9	Khoolna	...	...	...	...	.	...	12 0	12 8	11 8	13 0	14 0	14 0	...	...	...
10	Jessore	12 12	12 8	13 5	..	...	...	11 8	11 8	9 0	14 8	14 8	16 0	...	...	...
11	Moorshedabad	15 0	16 0	16 0	...		...	10 0	10 0	10 0	18 0	16 0	14 0	...	...	...
12	Dinagepore	12 0	14 11	17 8	20 0	20 0	14 8	15 8	14 4	15 8	19 4	18 0	19 0	...	..	...
13	Rajshahye	15 12	15 12	15 0	24 0	24 0	19 8	12 0	12 12	10 8	15 12	16 2	13 8	...	...	...
14	Rungpore	13 5	13 5	13 5	..		...	9 6	9 6	8 8	14 8	14 8	12 12	...	...	...
15	Bogra	15 0	15 0	15 0	...	...	...	12 0	13 8	12 0	18 0 15 0	18 0 New 16 8 Old	18 0 ...	...	...	...
16	Pubna	18 0	18 0	15 8	..	.		7 6	7 6	7 6	16 8	15 12	14 4		..	...
17	Darjeeling	10 8	8 0	11 0	12 0	10 0	10 0	5 0	5 0	5 0	13 0	15 0	12 0	..	...	...
18	Julpigoree	12 0	13 0	12 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	17 0	..	..	...
	Eastern Districts.															
19	Dacca	12 0	12 0	13 0	14 0	14 0	16 0	14 0	14 0	12 0	15 0	15 0	14 0	...	...	...
20	Furreedpore	16 0	16 0	13 0	20 0	25 0	12 0	12 0	12 0	10 0	16 0	14 0	15 0	...	...	...
21	Backergunge	...	.	..	.	..	.	14 8	12 4	15 4	16 10	13 5	16 2	...	...	...
22	Mymensingh	10 8	11 4	10 0		.	.	10 8	10 0	8 0	16 0	16 0	13 14	...	...	...

A In subdivisions retail prices of salt per rupee are:—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Kanaegunge 10½ seers.
B At Rampore Haut retail price of salt 9½ seers per rupee.
C In subdivisions retail prices of salt per rupee are:—Contai 9 seers, Tumlook 8 seers, and Ghatal 11 seers.
D At Jehanabad retail price of salt 10 seers and 10 chittacks per rupee.
E In subdivisions retail prices of salt per rupee are:—Baraset 10 seers, Basirhat 10 seers, Diamond Harbour (Kulpihat) 8 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.
F In subdivisions retail prices of salt per rupee are:—Kooshtea 10 seers, Meherpore 11 seers, Chooadanga 10 seers, and Ranaghat 10 seers.
G In subdivisions retail prices of salt per rupee are:—Satkhira 10 seers and Bagirhat 8 seers.
H In subdivisions retail prices of salt per rupee are:—Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.

SEERS OF 80 TOLAHS.

Bajra or Cumbu. (*Pennisetum typhoideum.*)			Marua or Ragi. (*Eleusine Coracana.*)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	...	...	...	...	...
...	...	...	..	...	...
...	...	...	...	...	...
.	...	...	..	...	...
...	...	...	...	..	...
...	...	...	...	...	...
12 8	12 8	13 2	...	...	...
...	...	...	...	...	...
...	...	...	..	..	...
..	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...		...	...	..	...
...	...	...	...	...	...
...	...	...	...	..	...
...	...	...	...	...	...
...	...	...	16 0	15 0	13 0
...	...	...	...	...	...
..	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...

...rs of the Districts of Bengal on the 15th December 1890.

Firewood.			Salt.			Wholesale prices per maund of 40 seers. Salt.			District.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
...h. S. Ch.	S. Ch.	S Ch.	S. Ch.	S. Ch.	S Ch.	Rs. a. p.	Rs. a. p	Rs. a. p.	
									BENGAL.
									Western Districts.
100 0	100 0	100 0	A k 11 1-3	k 11 1-3	10 5	3 7 6	3 7 6	3 12 0	Burdwan.
280 0	280 0	280 0	10 8	10 8	10 0	3 10 0	3 10 0	3 15 0	Bankoora.
160 0	160 0	160 0	B 10 8	10 8	10	3 10 0	3 10 0	3 10 0	Beerbhoom.
110 0	110 0	160 0	C 10 8	10 8	10 3	3 13 0	3 13 0	3 15 0	Midnapore.
120 0	120 0	120 0	D 9 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.
100 0	100 0	100 0	10 8	10 8	9 2	3 8 0	3 8 0	3 14 0	Howrah.
									Central Districts.
90 0	90 0	100 0	10 12	10 12	10 1	3 6 8	3 6 5	3 11 1	Calcutta.
100 0	100 0	100 0	E 10 12	10 12	10 0	3 6 6	3 6 6	3 10 0	24-Pergunnahs.
...	...	...	F 9 13	9 13	9 2	3 11 0	3 12 0	3 14 0	Nuddea.
160 0	160 0	160 0	G 8 0	8 0	8 0	4 2 0	4 0 0	4 4 0	Khoolna.
160 0	160 0	160 0	H 9 2	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.
200 0	200 0	220 0	I 11 0	11 0	11 0	3 10 0	3 10 0	3 8 0	Moorshedabad.
160 0	160 0	160 0	J 10 0	10 0	9 8	4 0 0	4 0 0	4 0 0	Dinagopore.
240 0	240 0	240 0	K 9 9	9 9	9 0	3 13 4	3 13 4	4 5 4	Rajshahye.
100 0	100 0	100 0	L 9 6	9 6	8 14	4 4 0	4 4 0	4 8 0	Rungpore.
90 0	90 0	90 0	9 0	9 0	8 13	4 0 0	4 0 0	4 2 8	Bogra.
200 0	200 0	200 0	M 8 15	8 15	k 8 11-2	3 14 0	3 14 0	4 1 6	Pubna.
120 0	120 0	120 0	8 0	8 0	8 0	N 5 0 0	5 0 0	5 0 0	Darjeeling
200 0	200 0	128 0	O 10 0	10 0	9 0	4 0 0	4 0 0	4 2 0	Julpigoree.
									Eastern Districts.
120 0	120 0	160 0	P 9 12	9 12	9 4	4 0 0	4 0 0	4 4 0	Dacca.
120 0	80 0	120 0	9 12	10 0	9 0	4 0 0	4 0 0	4 4 0	Furreedpore.
120 0	120 0	120 0	Q 9 0	9 0	10 0	3 12 0	3 12 0	4 0 0	Backergunge.
...	...	...	R 10 0	10 0	8 8	4 0 0	4 0 0	4 10 0	Mymensingh.

I In subdivisions retail prices of salt per rupee are :—Lalbagh 10½ seers, Kandi 11½ seers, and Jungipore 10 seers.
J At Thakurgaon retail price of salt 8 seers per rupee.
K In subdivisions retail prices of salt per rupee are :—Nattore 9 seers, and Nowgong 9 seers 9 chittacks.
L In subdivisions retail prices of salt per rupee are :—Gaibanda 8 seers, Nilphamari 9 seers, and Kurigram 8 seers
M At Serajgunge retail price of salt 10 seers per rupee.
N At Siliguri wholesale price of salt Rs. 4-4 per maund.
O At Fallacotta in the Alipore subdivision retail price of salt 8 seers per rupee.
P In subdivisions retail prices of salt per rupee are :—Manickgunge 9 seers, Moonsheegunge 8½ seers, and Narsingunge 10 seers.
Q In subdivisions retail prices of salt per rupee are :—Perosepore 9 seers, Patuakhali 9 seers, and Bhola 8 seers.
R In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Jamalpore 10 seers, Sherpore 8 seers, and Netrokona

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																		
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (*Sorghum vulgare.*)		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	***Eastern Districts*—concluded.**	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
23	Chittagong ...	12 0	11 0	11 0	...	...	...	11 0	11 0	8 0	16 4	15 14	16 0	.	...	
24	Noakholly ...	...	...	...	..	...	...	16 0	15 0	11 0	18 0	17 0	12 0	...	...	
25	Tipperah ...	10 0	8 0	12 5	.	..		11 7	11 7	10 0	18 8	16 0	17 12½		..	
26	Chittagong Hill Tracts.	...	...	...	...	...	...	10 5	10 5	10 0	11 6¾	11 6¾	13 5	...	..	...
	BEHAR.															
27	Patna ...	Red. 17 4 / White. 15 4	17 8 / 15 8	17 8 / 15 4	19 8	19 8	24 0	11 0	11 0	10 8	19 8	18 0	18 6	...	...	24 0
28	Gya ...	15 8	15 8	17 0	20 0	20 0	20 0	10 0	10 0	10 0	20 0	18 0	18 0	...	...	...
29	Shahabad ...	15 8	15 8	16 0	16 0	16 0	21 0	9 0	9 0	9 0	17 0	16 8	16 8	20 0	20 0	22 8
30	Durbhunga ...	16 8	13 3	16 0	18 11	17 9	20 8	13 3	13 3	12 8	18 12	18 0	20 0	...	...	...
31	Mozufferpore ...	17 0	17 0	13 0	20 0	18 0	18 0	12 0	10 0	10 8	18 0	17 0	19 0	...	...	...
32	Sarun ...	16 8	14 8	15 12	19 8	16 4	21 0	8 12	8 8	8 8	15 8	14 12	14 14	...	...	...
33	Chumparun ...	18 0	18 0	12 0	22 0	22 0	20 0	9 0	9 0	9 0	18 0	18 0	19 0	...	...	...
34	Monghyr ...	14 12	16 12	17 13	16 13	17 13	15 12	13 2	12 0	12 1	17 14	14 11	18 14	...	...	...
35	Bhagulpore ...	16 6	16 6	16 6	20 3	20 3	20 3	Old. 12 10 / New. 16 6	Old. 12 10 / New. 16 6	12 10	16 6 / 20 8	Old. 15 2 / New. 19 4	16 0	...	...	...
36	Purneah ...	17 0	16 0	20 0	...	...	.	20 0	16 0	20 0	22 0	18 0	22 0	...	...	...
37	Maldah ...	14 8	15 8	18 0	...	...	...	12 0	11 0	11 0	16 8	16 0	14 8	...	...	...
38	Sonthal Perghs.	14 0	14 0	15 0	...	...	...	13 0	13 0	12 0	20 0	21 0	16 0	...	...	...
	ORISSA.															
39	Cuttack ...	13 2	11 13	13 2	...	...	...	10 8	10 8	10 8	21 0	21 0	18 6	...	...	...
40	Pooree ...	13 2	14 7	13 2	...	...	...	14 7	14 7	14 7	21 0	21 0	22 10	...	...	...
41	Balasore ...	15 0	15 0	15 0	18 0	18 0	13 0	13 0	13 0	12 0	22 0	22 0	17 0	...	...	...
	CHOTA NAGPORE.															
	South-West Frontier Agency.															
42	Hazaribagh ...	14 0	14 0	13 0	19 0	15 0	11 0	11 0	10 0	10 0	20 0	20 0	20 0	...	...	...
43	Lohardugga ...	Red. 14 8 / White 8 0	14 0 / 7 12	12 0 / 10 8	Not available		13 0	17 0	New. 17 0 / Old. 14 0	20 0	New (ordinary). 21 0 / 23 0	21 0 / 21 12	22 0 / (Coarse). 24 0	...	...	...
44	Singbhoom ...	16 0	16 0	10 0	16 0	20 0	20 0	12 0	14 0	16 0	20 0	20 0	20 0	...	..	...
45	Manbhoom ...	13 5	13 5	13 5	...	28 0	...	14 0	13 0	12 8	22 0	23 0	21 0	...	...	...

S At Cox's Bazar retail price of salt 8 seers per rupee.
T At Feni Hát retail price of salt 8½ seers per rupee.
U In subdivisions retail prices of salt per rupee are :—Buxar 16¾ seers, Sasseram 10½ seers, and Bhabuah 9½ seers.
V At Somastipore retail price of salt 11 seers per rupee.
W In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.
X At Bettiah retail price of salt 10 seers per rupee.

CALCUTTA,
The 23rd December, 1890.

Station Bazars of the Districts of Bengal on the 15th December 1890—(concluded).

INDIAN CORN OR MAIZE. (*Zea Maye.*)			ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			WHOLESALE PRICES PER MAUND OF 40 SEERS. SALT.			DISTRICTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
															Eastern Districts—concluded.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. C.	S. Ch.	S. Ch.	Rs A. P.	Rs A. P.	Rs A. P.	
...	...	...	...	...	...	110 0	110 0	100 0	S 10 0 T	10 0	9 0	3 11 0	3 14 0	4 0 0	Chittagong.
...	..	.	8 0	8 0	7 0	..	...	...	9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
..	...	...	10 0	10 0	8 6¼	...	...	...	10 0	10 0	8 14	4 0 0	4 0 0	4 8 0	Tipperah.
.	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
															BEHAR.
23 8	19 8	24 0	...	16 8	22 8	130 0	120 0	130 0	9 8	9 8	9 8	3 9 6	3 9 6	3 14 0	Patna.
...	...	...	17 0	17 0	18 0	160 0	160 0	200 0	10 0	10 0	9 0	4 2 0	4 2 0	4 2 0	Gya.
...	...	...	17 0	18 0	20 0	160 0	160 0	140 0	U 10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Shahabad.
22 0	20 14	25 0	17 9	17 0	20 0	160 0	160 0	160 0	V 11 0	11 0	10 0	3 8 0	3 8 0	4 0 0	Durbhunga.
20 0	19 0	22 0	18 0	17 0	22 0	160 0	160 0	160 0	W 11 10	10 8	10 0	3 12 0	3 12 0	4 0 0	Mozufferpore
19 8	18 0	22 0	16 8	16 8	20 8	180 0	180 0	160 0	10 4	10 4	9 8	3 11 6	3 11 6	4 2 0	Sarun.
22 0	22 0	25 0	17 0	17 0	17 0	160 0	160 0	160 0	X 10 0	10 0	9 8	3 13 0	3 13 0	3 15 0	Chumparun
18 15	21 0	25 4	15 12	16 12	18 14	165 0	168 0	147 0	Y 10 8	10 8	10 0	3 10 6	3 10 6	3 14 6	Monghyr.
21 7	21 7	24 0	17 11	17 11	17 10	151 8	151 8	151 8	10 1	10 8	10 1	3 12 0	3 11 0	3 15 6	Bhagulpore.
...	...	...	13 0	14 0	15 0	...	131 0	130 0	Z 9 0	9 0	9 0	4 7 0	4 7 0	4 7 0	Purneah.
...	...	...	...	.	...	120 0	120 0	160 0	9 0	9 0	8 8	4 0 0	4 0 0	4 6 0	Maldah.
24 0	24 0	27 0	20 0	20 0	19 0	200 0	200 0	200 0	9 0	9 0	9 4	4 0 0	4 0 0	4 0 0	Sonthal Perghs.
															ORISSA.
...	...	...	17 1	18 6	17 1	80 0	80 0	80 0	11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	Cuttack.
...	...	...	17 12	17 12	15 12	80 0	80 0	80 0	Z1 9 13	9 13	11 13	3 12 0	3 12 0	3 6 0	Pooree.
...	...	...	...	...	...	160 0	160 0	140 0	Z2 10 0	10 0	9 0	3 14 0	3 14 0	4 2 0	Balasore.
															CHOTA NAGPORE.
															South-West Frontier Agency.
24 0	25 0	28 0	19 0	20 0	19 0	240 0	240 0	320 0	9 0	8 0	8 0	4 0 0	4 2 0	4 8 0	Hazaribagh.
28 0	28 8	35 0	24 0	24 0	14 12	150 0	140 0	140 0	Z3 9 0	9 0	8 4	4 4 0	4 2 0	4 10 0	Lohardugga.
20 0	32 0	32 0	21 0	24 0	12 0	240 0	240 0	200 0	8 0	8 0	7 0	5 0 0	5 0 0	5 8 0	Singbhoom.
26 0	26 0	32 0	18 0	16 0	16 0	200 0	200 0	200 0	Z4 9 14	10 0	9 2	3 14 0	3 14 0	4 4 0	Manbhoom.

Y In subdivisions retail prices of salt per rupee are :—Begusarai 9½ seers and Jamui 9 seers.
Z At Kissengunge retail price of salt 8 seers per rupee.
Z1 In Khoorda subdivision retail price of salt 10½ seers per rupee.
Z3 At Bhudruck retail price of salt 9 seers per rupee.
Z3 At Daltongunge (Palamow subdivision) retail price of salt 9 seers per rupee.
Z4 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 13 2	2 13 4	2 12 3	1 14 2	1 15 3	2 1 11	4 3 5	4 4 9	4 10 2	2 9 3	2 12 10	2 12 0
2	Serajgunge ...	1 12 0	1 12 0	2 8 0	...	...	...	4 12 0	4 10 0	5 8 0	2 8 0	3 4 0	3 0 0
3	Dacca ...	3 4 0	3 4 0	3 0 0	2 12 0	2 12 0	2 7 0	2 12 0	2 12 0	3 4 0	2 10 0	2 10 0	2 12 0
4	Naraingunge	...	...	...	...	...	...	3 0 0	3 0 0	3 4 0	2 12 0	2 12 0	3 0 0
5	Chittagong	3 4 0	3 8 0	3 8 0	...	...	...	3 10 0	3 8 0	4 8 0	2 6 0	2 8 0	2 8 0
6	Patna ...	2 5 3 (Red.) / 2 9 0 (White.)	2 4 0 / 2 8 0	2 4 0 / 2 9 0	2 0 0	2 0 0	1 9 6	3 8 0	3 8 0	3 12 0	2 0 0	2 2 6	2 0 0
7	Balasore ...	2 8 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	1 13 0	1 13 0	2 4 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 3	1 14 3	1 15 0
9	Cuttack ...	3 0 0	3 4 0	3 0 0	...	...	...	3 10 0	3 10 0	3 0 0	1 11 0	1 11 0	2 3 0

CALCUTTA,
The 23rd December, 1890.

in the undermentioned Marts of Bengal on the 15*th December*, 1890.

PRICES PER MAUND

JOWAR OR CHOLUM. (*Sorghum Vulgare.*)			BAJRA OR CUMBU. (*Pennisetum typhoideum.*)			MAIZE.	ARHAR OR THUR. CADJAN PEA. (*Cajanus indicus.*)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
...	2 4 0	2 7 0	2 12 0	2 11 0	2 12 3	14 7	2 4 6	2 7 8	2 2 7	0 5 9	0 5 9	0 5 6	3 6 8	3 6 5	3 11 1	Calcutta.
...	...	...	...	...	...	...	...	...	...	...	...	...	3 14 0	3 14 0	4 2 0	Serajgunge.
...	...	...	...	...	...	...	2 12 0	2 8 0	2 12 0	0 5 0	0 5 0	0 4 0	4 0 0	4 0 0	4 4 0	Dacca.
...	...	...	...	...	...	...	3 4 0	3 4 0	3 4 0	0 8 0	0 8 0	0 8 0	3 11 0	3 11 0	4 0 0	Naraingunge.
...	...	...	...	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 11 0	3 14 0	4 0 0	Chittagong.
...	...	...	...	...	...	9 6	...	2 6 0	1 12 0	0 5 0	0 5 0	0 5 0	3 9 6	3 9 6	3 14 0	Patna.
...	...	...	...	...	...	...	...	...	...	0 4 6	0 4 6	0 5 0	3 14 0	3 14 0	4 2 0	Balasore.
...	...	1 9 6	...	...	...	...	...	...	...	...	...	...	3 12 0	3 12 0	3 6 0	Poorea.
...	...	...	...	...	...	...	2 2 0	2 2 0	2 2 0	0 8 0	0 8 0	0 8 0	3 12 0	3 12 0	3 12 0	Cuttack.
...	...	...	...	...	...											
...	...	...	...	...	...											

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Météorological Report of the Province of Bengal

the week ending Friday, the 19th of December 1890.

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air Pressure. Mean barometric height, 9 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M. temperature.
Orissa.	Pooree	Pooree	30·055	30·068	—	NNE	202	84·7	15th Dec.	66·6	17th Dec.	82·6	69·1	75·9	—	73·0
		Gopalpore	30·049	30·071	−·001	NNW	209	80·7	15th ,,	67·9	18th ,,	82·6	69·3	76·0	+4·7	74·9
		False Point	30·051	30·073	−·018	N, NNW	158	82·4	13th ,,	61·0	18th ,,	80·7	63·7	72·2	+5·1	69·8
	Cuttack	Cuttack	29·998	30·082	−·006	Calm	34	86·4	13, 14 ,,	64·8	17th ,,	85·1	66·9	76·0	+5·7	71·1
	Balasore	Balasore	30·098	30·099	0	WNW	52	82·4	13th ,,	59·6	17th ,,	80·2	61·9	71·1	+4·8	67·1
	South-West Midnapore, South 24-Pergunnahs	Saugor Island	30·056	30·083	−·006	Northerly	178	81·7	14th ,,	58·4	17th ,,	80	63·6	70·3	+2·9	65·7
South-West Bengal.	Midnapore	Midnapore	29·939	30·097	−·007	N	112	84·3	14th ,,	56·2	17th ,,	81·7	58·9	70·3	+3·5	64·7
	24-Pergunnahs, Howrah, Hooghly	Calcutta	30·069	30·092	−·001	Calm	24	78·5	14th ,,	53·8	17th ,,	77·0	57·6	67·3	+1·2	63·1
	Burdwan	Burdwan	30·010	30·116	+·011	Calm	27	80·5	19th ,,	54·3	17, 18th ,,	77·7	56·7	67·2	+0·4	61·4
	Bankoora	Bankoora	29·763	30·084	−·012	Calm	56	81·2	19th ,,	55·0	16th ,,	78·5	57·7	68·1	+1·1	61·9
	Beerbhoom, West Burdwan	Raneegunge	29·764	30·117	+·008	NW	18	80·7	19th ,,	51·8	16th ,,	77·4	56·5	66·8	+0·8	60·7
	Moorshedabad	Berhampore	30·026	30·097	+·003	Calm	27	77·6	19th ,,	53·7	17th ,,	75·1	55·0	65·1	−0·8	59·3
	Nuddea	Krishnaghur	30·042	30·094	+·007	North-Easterly	50	79·7	19th ,,	48·3	17th ,,	77·4	51·8	64·6	−1·6	60·9
East Bengal.	Jessore, Khoolna	Jessore	30·093	30·098	+·015	Calm	26	79·7	13th ,,	51·5	16th ,,	76·9	54·9	65·9	−0·6	62·4
	Chittagong	Chittagong	29·975	30 070	0	NW	40	80·2	13th ,,	55·9	16th ,,	76·8	57·7	67·3	−0·8	50·9
	Chittagong Hill Tracts	Demagiri	Observations not received.													
	Backergunge	Barrisal	30·061	30·074	+·017	Calm	43	80·3	13th Dec.	53·1	17th ,,	77·4	56·6	67·0	+1·0	63·9
	Noakholly	Noakholly	30·030	30·082	+·023	NE	69	80·5	13th ,,	51·5	18th ,,	77·6	53·1	65·4	−0·8	62·7
	Furreedpore	Furreedpore	30·053	30·095	+·023	Calm	32	74·3	19th ,,	52·5	16th ,,	73·8	54·2	64·0	−1·2	60·4
	Dacca	Dacca	30 047	30·071	0	North-Westerly	69	79·6	3th ,,	53·3	17th ,,	77·2	55·7	66·5	−1·3	60·3
	Commillah	Commillah*	30·067	30·103	+·031	Variable	19	77·9	14th ,,	50·1	16th ,,	77·1	52·1	64·6	−1·5	62·9
	Mymensingh	Mymensingh	30 026	30·087	+·017	Calm	33	75·7	13th ,,	50·4	15th ,,	74·5	53·0	63·3	+0·4	57·6
North Bengal.	Bogra	Bogra	30·004	30·071	+·027	Calm & W	31	75·8	19th ,,	50·5	15th ,,	74·8	51·9	63·4	−2·2	57·0
	Pubna	Serajgunge	30·035	30·084	+·008	North-Westerly	12	77·0	13th ,,	50·0	13th ,,	75·5	51·3	63·4	−1·8	58·8
	Rajshahye	Rampore Beauleah, Maldah	30·015	30·089	+·031	N & N.W.	30	75·9	19th ,,	52·1	17th ,,	72·5	53·4	62·9	−0·8	59·4
	Maldah	Maldah	30·034	30·120	—	NW	79	75·4	13th ,,	48·0	17th ,,	74·5	49·9	62·1	—	59·1
	Dinagepore	Dinagepore	29·965	30·093	−·001	SW	?	76·6	13th ,,	47·3	15th ,,	75·3	49·7	62·5	−1·3	57·3
	Rungpore	Rungpore	29·976	30·110	+·008	N	20	76·6	13th ,,	48·9	15th ,,	75·0	50·8	62·9	−0·6	56·6
	Julpigoree, Cooch Behar	Julpigoree	29·795	30·101	0	?	48	74·4	13th ,,	50·1	14th ,,	73·5	52·7	63·1	−0·6	58·3
	Darjeeling Hill Tracts	Darjeeling	22·968	—	−·038	Calm	112	46·5	14th ,,	33·3	16th ,,	44·5	33·8	39·7	−3·5	37·4
	Purneah, North Bhagulpore	Purneah	29·971	30·107	+·012	Calm	33	75·2	19th ,,	46·5	15th ,,	73·3	48·2	60·8	−1·8	54·3
North Behar.	Mozufferpore	Mozufferpore	29·910	30·103	—	Calm & WSW	41	74·9	18th ,,	48·2	15th ,,	73·2	50·4	61·8	—	55·5
	Durbhunga	Durbhunga	29·939	30·118	+·003	WNW & Calm	37	75·9	19th ,,	50·4	14, 15th ,,	74·0	51·4	62·7	−1·5	58·2
	Chumparun	Motihari	29·882	30·126	+·030	W & WSW	90	76·2	19th ,,	43·9	13th ,,	74·1	46·8	60·4	−0·6	56·9
	Sarun	Chupra	29·890	30·106	+·016	South-Westerly	42	76·8	19th ,,	49·0	16th ,,	74·1	51·2	62·7	+0·1	56·6
		Dehree	?	?	?	?	?	79·3	14th ,,	49·2	16th ,,	76·2	53·0	64·1	+2·7	59·5
South Behar.	Shahabad	Buxar	?	?	?	WSW	64	76·9	19th ,,	47·9	14, 15th ,,	74·3	50·0	62·6	+0·3	57·1
		Arrah	29·902	30·107	+·016	North-Westerly	5	77·8	18th ,,	47·7	14th ,,	75·0	50·3	62·7	+0·8	56·4
	Gya	Gya	29·928	30·133	+·008	S	116	79·3	18th ,,	49·7	15th ,,	76·4	53·5	65·0	+1·5	58·3
	Patna	Bankipore	29 920	30·115	−·014	SW	44	75·8	18th ,,	49·4	15th ,,	73·4	53·1	63·3	0	58·4
	South Bhagulpore, Monghyr	Shagulpore	29·93-	30·101	+·003	Calm	10	77·5	19th ,,	47·5	16th ,,	74·6	50·3	62·5	+0·2	58·5
	Sonthal Pergunnah	Doomka	29·578	30·114	+·006	Northerly	33	78·1	19th ,,	48·9	16th ,,	75·5	51·2	63·4	0	56·8
	Hazaribagh	Hazaribagh	28 021	30·126	−·009	Variable	114	76·4	18th ,,	48·7	16th ,,	73·4	52·3	62·4	+1·5	57·9
	Lohardugga, Manbhoom	Ranchee	27·885	30·104	−·009	Calm & N	201	77·5	18th ,,	49·4	16, 17th ,,	75·7	51·6	63·6	+3·2	59·3
	Singbhoom	Chyebassa	29·347	30·107	+·017	Variable	19	84·2	14th ,,	55·7	16th ,,	81·1	56·7	69·9	+5·1	64·7

* Mean of six days.

Meteorological Division.	District.	Representative station.	DISTRICT OBSERVATIONS. Average amount of cloud at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	Rainfall. Of week. Mean for district.	Normal mean.	Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 15th May 1890. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
Orissa.	Pooree	Pooree	8·6	0·6	0·20	0·76	0·04	0·76	0·64	+0·12	60·33	55·34	+11·19	1·	0·1	Pooree	Pooree	Orissa.
		Gopalpore	8·3	0·6	0·91											Gopalpore		
		False Point														False Point		
	Cuttack	Cuttack	9·1	1·4	Nil													
	Balasore	Balasore	7·8	2·7	Nil	0·34	0·04	0·34	0·42	−0·08	63·08	51·39	+12·69	0·4	0·1	Cuttack	Cuttack	
	Saugor Island	Saugor Island	8·5	0·3	0·11	0·19	0·01	0·31	0·20	+0·11	61·57	52·84	+8·73	0·3	0·1	Balasore	Balasore	
			9·4	2·7	Nil	0·03	0·01	0·05	0·29	−0·24	66·34	61·99	+4·35	0·3	0·1	Saugor Island	South-West Midnapore, South 24-Pergunnahs	South-West Bengal.
South-West Bengal.	Midnapore	Midnapore	7·8	0·4	Nil	0·20	Nil	0·20	0·17	+0·03	50·21	50·99	−0·79	0·3	1·0·0	Midnapore	Midnapore	
	24-Pergunnahs, Howrah, Hooghly	Calcutta	8·3	0·7	0·03	0·26	0·01	0·26	0·33	+0·03	55·43	51·10	+4·32	0·7	0·1	Calcutta	24-Pergunnahs, Howrah, Hooghly	
	Burdwan	Burdwan	7·4	1·3	Nil	0·07	Nil	0·07	0·13	−0·01	61·48	46 26	+15·22	0·3	0·0	Burdwan	Burdwan	
	Bankoora	Bankoora	7·4	1·4	D. rain	Nil	0·02	Nil	0·16	−0·16	52·02	52·09	−0·07	0·0	0·1	Bankoora	Bankoora	
	Beerbhoom, West Burdwan	Raneegunge	7·7	1·4	0·18	0·13	0·01	0·13	0·11	+0·02	64·66	51·72	+12·34	0·3	0·1	Raneegunge	Beerbhoom, West Burdwan	
	Moorshedabad	Berhampore	8·8	0·1	Nil	Nil	0·02	Nil	0·13	−0·13	60·55	50·03	+10·52	0·0	0·1	Berhampore	Moorshedabad	South-West Bengal.
	Nuddea	Krishnaghur	8·4	0·9	0·06	0·03	Nil	0·03	0·09	−0·06	55·01	48·72	+6·34	0·4	0·0	Krishnaghur	Nuddea	
East Bengal.	Jessore, Khoolna	Jessore	8·8	0	0·03	0·01	Nil	0·01	0·22	−0·21	53 54	52·22	+1·32	0·2	0·0	Jessore	Jessore, Khoolna	
	Chittagong	Chittagong	9·0	1·3	Nil	Nil	0·01	0·30	0·51	−0·19	119·45	113·09	+6·36	0·0	0·1	Chittagong	Chittagong	
	Chittagong Hill Tracts	Demagiri				Nil	Nil	0·02	0·46	−0·44	73·34	80·24	−6·92	0·0	0·0	Demagiri	Chittagong Hill Tracts	East Bengal.
	Backergunge	Barrisal	8·7	1·1	Nil	0·05	0·02	0·19	0·39	−0·20	98·35	76·17	+7·82	0·3	0·1	Barrisal	Backergunge	
	Noakholly	Noakholly	8·2	0·3	Nil	Nil	0·02	Nil	0·79	−0·79	97·81	106·50	−8·69	0·0	0·1	Noakholly	Noakholly	
	Furreedpore	Furreedpore	9·0	0	Nil	Nil	Nil	Nil	0·10	−0·10	45·43	54·07	−9·65	0·0	0·0	Furreedpore	Furreedpore	
	Dacca	Dacca	8·4	0	Nil	Nil	Nil	Nil	0·21	−0·21	58 13	60·05	−1·86	0·0	0·1	Dacca	Dacca	
	Commillah	Commillah	8·4	0	Nil	Nil	0·01	Nil	0·27	−0·27	60·19	68·03	−7·84	0·0	0·1	Commillah	Tipperah	
	Mymensingh	Mymensingh	8·2	0·7	Nil	Nil	0·01	0·08	0·35	−0·27	60·19	68·03	−7·84	0·0	0·1	Mymensingh	Mymensingh	
North Bengal.	Bogra	Bogra	8·2	0·2	Nil	Nil	0·01	Nil	0·13	−0·13	75·85	68·53	+7·32	0·0	0·1	Bogra	Bogra	
	Pubna	Serajgunge	8·8	0	Nil	Nil	0·02	Nil	0·14	−0·14	78·90	57·04	+21·05	0·0	0·1	Serajgunge	Pubna	
	Rajshahye	Rampore Beauleah	8·9	0	Nil	Nil	Nil	Nil	0·09	−0·09	54·95	52·83	+2·06	0·0	0·0	Rampore Beauleah	Rajshahye	
	Maldah	Maldah	8·6	0·1	Nil	Nil	0·01	Nil	0·12	−0·12	75·86	52·93	+22·93	0·0	0·1	Maldah	Maldah	
	Dinagepore	Dinagepore	8·6	0·6	Nil	Nil	0·01	Nil	0·09	−0·08	62·14	53·67	+8·47	0·0	0·1	Dinagepore	Dinagepore	
	Rungpore	Rungpore	8·9	0·1	Nil	Nil	0·03	Nil	0·16	−0·16	81·74	58·41	+23·33	0·0	0·1	Rungpore	Rungpore	
	Julpigoree, Cooch Behar	Julpigoree	8·2	0	Nil	Nil	0·05	Nil	0·14	−0·14	106·01	73·82	+33 29	0·0	0·1	Julpigoree	Julpigoree, Cooch Behar	North Bengal.
	Darjeeling Hill Tracts	Darjeeling	9·4	0	Nil	Nil	0·06	Nil	0·14	−0·14	154·51	109·74	+44·77	0·0	0·1	Julpigoree	Darjeeling Hill Tracts	
	Purneah, North Bhagulpore	Purneah	8·6	0·9	Nil	Nil	0·05	0·14	0·19	−0·05	165·80	120·07	+45·73	0·5	0·2	Darjeeling	Purneah, North Bhagulpore	
North Behar.	Mozufferpore	Mozufferpore	8·9	0·1	Nil	Nil	0·03	Nil	0·09	−0·09	80·07	53·14	+22·93	0·0	0·1	Purneah	Mozufferpore	
	Durbhunga	Durbhunga	8·9	0·4	Nil	Nil	0·05	Nil	0·08	−0·08	52·57	42·84	+9·73	0·0	0·1	Mozufferpore	Durbhunga	
	Chumparun	Motihari	8·5	0	Nil	Nil	0·03	Nil	0·08	−0·08	57·03	44·04	+13·39	0·0	0·1	Darbhunga	Chumparun	
	Sarun	Chupra	8·9	0·9	Nil	Nil	0·08	Nil	0·17	−0·17	68·47	46·05	+22·41	0·0	0·2	Motihari	Sarun	
		Dehree	8·6	0	Nil	Nil	0·09	Nil	0·14	−0·14	58·60	49·00	+11·60	0·0	0·2	Chupra		
			7·9	1·3	0·04											Dehree		
South Behar.	Shahabad	Buxar	8·0	1·7	Nil	0·02	0·14	0·02	0·27	−0·25	49·61	39·53	+10·03	0·4	0·2	Buxar	Shahabad	South Behar.
		Arrah	8·4	1·3	Nil											Arrah		
	Gya	Gya	7·4	1·7	0·08	0·02	0·15	0·02	0·18	−0·16	56·05	40·99	+15·06	0·2	0·2	Gya	Gya	
	Patna	Bankipore	8·9	0·9	Nil	Nil	0·09	Nil	0·12	−0·12	48·10	40·73	+7·37	0·0	0·1	Bankipore	Patna	
	South Bhagulpore, Monghyr	Shagulpore	8·2	1·4	Nil	Nil	0·06	Nil	0·08	−0·08	52·25	43·62	+9·63	0·0	0·1	Shagulpore	South Bhagulpore, Monghyr	
	Sonthal Pergunnah	Doomka	8·8	0·7	0·14	0·06	0·02	0·06	0·08	−0·02	63·71	50·35	+13·36	0·5	0·1	Doomka	Sonthal Pergunnahs	
	Hazaribagh	Hazaribagh	7·5	1·9	0·03	0·01	0·16	0·01	0·19	−0·18	49·46	49·39	+0·07	0·4	0·3	Hazaribagh	Hazaribagh	
	Lohardugga, Manbhoom	Ranchee	8·2	2·9	Nil	Nil	0·16	Nil	0·20	−0·20	47·01	47·61	−0·60	0·0	0·2	Ranchee	Lohardugga, Manbhoom	
						0·14	0·13	0·14	0·13	+0·02	41·07	45·35	−4·28	0·5	0·1			
	Singbhoom	Chyebassa	8·2	2·0	0·34	0·20	0·03	0·20	0·24	+0·35	34·53	50·71	−16·18	2·0	0·1	Chyebassa	Singbhoom	

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.

The humidity of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. Under the head District observations of rainfall the normal means, the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past ten years. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater. Cloud amounts represent the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means, the district standing in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell. Their means of the district are the numerical average of the rainfall return received in the districts, viz., from total rainfall of the subdivisional stations.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of December 1890.

Meteorological division.	District.	Station.	Rainfall. Saturday, 13th December.	Sunday, 14th December.	Monday, 15th December.	Tuesday, 16th December.	Wednesday, 17th December.	Thursday, 18th December.	Friday, 19th December.	Total number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Orissa ...	Pooree ...	Pooree ...	.....	0·02	0·45	.....	.....	.....	.....	2	0·47	0·47	0·26	70·44	50·99
		Khurdah ...	.....	0·93	0·44	.....	.....	.....	.....	3	1·39	1·39	0·74	66·55	56·03
		Sanpur ...	.....	0·77	0·40	.....	.....	.....	.....	3	1·17	1·17	0·81	63·03	50·04
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·73	66·10	54·14
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·95	?
		Salipara ...	.....	0·65	.....	.....	.....	.....	.....				?		?
		Pipli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	75·90	?
	Cuttack ...	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	63·67	49·65
		Banki ...	.....	0·95	0·75	.....	.....	.....	.....	2	1·70	1·70	0·43	67·79	48·33
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·74	52·14	53·89
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	53·15	52·65
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·64	53·15	53·74
		Dharmsala ...	.....	.....	...	.....	.....	.....	.....	Nil	Nil	Nil	?	51·18	?
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·15	?
	Balasore ...	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·49	52·06	52·84
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	53·23	51·13
		Soroh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	60·84	50·75
		Balasore ...	.....	0·46	.....	.....	.....	.....	.....	1	0·46	0·46	0·33	57·69	57·34
		Jellasore ...	.....	0·70	.....	.....	.....	.....	.....	1	0·70	1·00	0·08	66·33	51·10
		Haripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	62·98	53·46
South-West Bengal.	Midnapore ...	Contai ...	.....	0·08	.....	.....	.....	.....	.....	1	0·08	0·08	0·35	67·81	60·99
		Saugor Island ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	0·21	69·13	66·75
		Tumlook ...	.....	0·60	.....	.....	.....	.....	.....	1	0·60	0·60	0·23	58·50	50·93
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	47·47	48·03
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	44·01	53·85
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·29	?
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	46·23	?
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	62·15	57·73
		Canning Town ...	.....	0·02	.....	.....	.....	.....	.....	1	0·02	0·02	?	64·71	?
		Alipore Jail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·29	61·96	54·86
		Barrackpore ...	.....	0·40	.....	.....	.....	.....	.....	1	0·40	0·40	0·24	51·31	53·89
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	56·34	51·03
		Baraset ...	.....	0·57	.....	.....	.....	.....	.....	1	0·57	0·57	0·33	55·41	49·26
		Busserhat ...	.....	0·18	.....	.....	.....	.....	.....	1	0·18	0·18	0·21	58·85	54·28
	Howrah ...	Howrah ...	.....	0·16	.....	.....	.....	.....	.....	1	0·16	0·16	0·25	51·50	50·35
		Mohaneka (*Goloberiah*) ...	.....	0·19	.....	.....	.....	.....	.....	1	0·19	0·19	0·22	59·76	51·39
	Hooghly ...	Serampore ...	.....	0·91	.....	.....	.....	.....	.....	1	0·91	0·91	0·23	55·31	49·04
		Hooghly ...	.....	0·14	.....	.....	.....	.....	.....	1	0·14	0·14	0·22	53·19	47·03
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	51·57	54·57
	Burdwan ...	Culna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	54·31	48·81
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	65·58	47·63
		Outwa ...	.....	0·21	.....	.....	.....	.....	.....	1	0·21	0·21	0·05	64·57	47·25
		Bancegunge ...	.....	0·18	.....	.....	.....	.....	.....	1	0·18	0·18	0·07	60·72	48·74
		Manikur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·21	?
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	57·76	51·05
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	54·96	51·82
		Mallara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	59·28	48·23
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	49·06	50·61
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·97	?
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	60·78	?
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·11	?
		Gangajalghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·73	?
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·39	?
		Gonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·74	?
	Hazaribagh	Hh. Soory ...	.....	0·22	.....	.....	.....	.....	.....	1	0·22	0·22	0·08	63·59	53·19
		Hetampore ...	.....	0·11	.....	.....	.....	.....	.....	1	0·11	0·11	0·04	60·42	53·76
		Rampore Haut ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	72·56	50·91
		Sulpore ...	.....	0·11	.....	.....	.....	.....	.....	1	0·11	0·11	?	57·53	?
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·46	?
	Nuddea ...	Ranaghat ...	.....	0·07	.....	.....	.....	.....	.....	1	0·07	0·07	0·15	55·55	46·47
		Kishnaghur ...	.....	0·07	.....	.....	.....	.....	.....	1	0·07	0·07	0·02	61·75	45·37
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	47·98	50·05
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	58·86	47·10
		Koosheea ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	58·09	58·93
	Khoolna ...	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	57·61	55·47
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	63·51	60·80
		Khoolna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	58·88	54·90
		Nakipur ...	.....	0·66	.....	.....	.....	.....	.....	1	0·66	0·66	?	76·68	?
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·78	?
	Jessore ...	Narail ...	.....	0·05	.....	.....	.....	.....	.....	1	0·05	0·05	0·12	51·89	45·61
		Jessore ...	.....	0·03	.....	.....	.....	.....	.....	1	0·03	0·03	0·16	53·97	53·67
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	54·16	52·94
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	46·44	48·78
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	43·44	48·76
													0·25	46·86	51·16
	Moorshedabad	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	64·89	49·61
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	59·27	50·78
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	63·67	49·60
		Azimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	58·37	50·39
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	51·83	48·62
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	65·85	50·77
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil			
		Akhriganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil			
		Fatikbari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·99	?
													?		?
East Bengal.	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	0·33	129·67	132·97
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·33	0·07	109·03	93·28
		Sandoka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	?	114·99	?
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	81·41	?
	Chittagong Hill Tracts.	Rangmati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	0·13	69·26	73·04
		Rema ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·39	?	77·71	77·44
	Backergunge ...	Patuakhally ...	.....	0·20	.....	.....	.....	.....	.....	1	0·20	0·20	0·45	79·21	66·85
		Perozepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	62·91	69·24
		Barrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	65·76	64·99
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·55	0·45	66·54	61·51

ement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of December 1890—contd.

ological sion.	District.	Station.	Rainfall. Saturday, 13th December.	Sunday, 14th December.	Monday, 15th December.	Tuesday, 16th December.	Wednesday, 17th December.	Thursday, 18th December.	Friday, 19th December.	Total number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
Bengal sid.		*Gourreadd* ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·66	?
		Baupbal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73·26	?
	Noakholly ...	Noakholly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·56	93·34	107·14
		Fenny ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·98	103·40	106·73
		Hariskpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	?	170·31	?
		Ramganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·28	?
	Furreedpore	Madaripore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	41·91	55·35
		Furreedpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	49·45	57·38
		Goalundo ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	44·90	53·49
	Dacca ...	Munshigunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	57·78	59·26
		Dacca ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	54·58	58·16
		Narainguage ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	60·71	61·49
		Manikgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	59·71	49·80
		Joydebpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·26	?
	Hill Tipperah	Agartola ...	.....										0·36		61·00
	Tipperah ...	Comilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·44	67·24	75·38
		Chandpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	56·78	74·03
		Brahmanbaria ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·30	0·23	54·94	61·17
		Ramchandrapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·11	?
		Nasirnagar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·81	?
		Daudkandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	30·44	?
		Kasba ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·71	?
		Lakeham ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·55	?
	Mymensingh.	Sishoreguner ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	68·87	69·31
		Atia (*Tangail* ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	58·64	64·94
		Mymensingh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	75·65	73·52
		Jamalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	79·10	64·96
		Netrekona ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	96·54	80·53
		Subornakhali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·28	?
		Durgapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·07	?
		Sherpore Town ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·41	?
		Dewanganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·00	?
orth Bengal.	Pubna ...	Pubna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	46·08	53·45
		Seraiguage ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	63·81	52·27
	Bogra ...	Sherepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	77·86	57·95
		Nowkhilla ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	66·79	53·86
		Bogra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	79·93	60·51
		Panchbibi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	91·46	58·48
	Rajshahye ...	Gaulah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	72·29	52·30
		Nattore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	88·84	54·29
		Naogaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	66·16	53·14
		Lalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·35	?
		Wande ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·04	?
	Maldah ...	Maldah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	64·65	51·12
		Chanchal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	59·63	56·17
		Gajol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	84·40	?
		Sibganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·06	?
	Dinagepore ...	Mohadeopore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	67·94	56·12
		Churamon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	80·25	53·33
		Baiguage ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	92·75	57·75
		Dinagepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	86·80	63·61
		Balcorrhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	81·01	53·26
		Thakoorgaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	107·04	?
	Rungpore ...	Burwaiguage (*Gyabandia*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	123·00	62·21
		Rungpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	96·96	74·14
		Kurigram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	90·59	73·33
		Bagdogra (*Nilphamari* ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	111·23	84·08
		Ulipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	97·52	?
	Julpigoree ...	Julpigoree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	156·26	116·83
		Alipore Doour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	157·7	?
		Pallacotta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	147·30	?
		Debigunj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·70	?
		Bhagatpore ...													
	Cooch Behar	(*Nagrakatta*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	138·95	94·69
		Dinhatta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	130·37	118·10
		Cooch Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	146·36	103·11
		Mickliguage ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	171·61	113·05
		Masabhanga ...	.....	.....	.....	.....	.....	.....	.....		3	0·18	0·47	211·33	121·50
	Darjeeling Hills.	Bana ...	.....	0·15	.....	.....	0·03	.....	.....				0·10	179·39	102·41
		Silliguri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	0·20	150·24	107·54
		Darjeeling ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	153·00	77·30
		Kalimpong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·31	?	198·09	?
		Kurseong ...	.....	.....	.....	.....	.....	.....	.....						
e Behar	Purneah ...	Kissengunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	105·38	69·75
		Arraeah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	83·78	63·34
		Purneah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	89·36	61·14
		Gondwara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Balarampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	100·45	?
		Manari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	83·95	?
		Kaliagunj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·92	?
	North Shagulpor	Maddapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	61·61	49·07
		Bhogpol ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	63·21	47·71
		Pratabganj ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·30	?
	Durbhunga ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	51·70	42·49
		Durbhunga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	58·56	45·87
		Madhubani ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	69·61	46·39
		Rahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·58	?
		Rashera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·42	?
	Mozufferpore	Sitamarhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	52·96	46·96
		Mozufferpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	56·15	44·78
		Hajipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	48·60	41·26
		Fore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·21	?
		Mahua ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·79	?
		Sisher ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·15	?
		Pupri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·19	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 19th of December 1890—con

Meteorological Division.	District.	Station.	Rainfall. Saturday, 13th December.	Sunday, 14th December.	Monday, 15th December.	Tuesday, 16th December.	Wednesday, 17th December.	Thursday, 18th December.	Friday, 19th December.	Total Number of rainy days.	Total Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Ave rai from Ma da
North Behar —concluded.	Chumparun...	Motihari ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	72·08	
		Bettiah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	64·89	
		Bagaha ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
		Burhurwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·36	
	Sarun ...	Gopalgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	52·07	
		Sewan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	59·84	
		Chuprah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	48·27	
South Behar	Shahabad ..	Buxar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	52·47	
		Dehree ...	0·04	.....	.....	.....	.....	.....	.....	1	0·04	0·04	0·55	43·18	
		Bhaboouh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	41·11	
		Bassereun ...	0·08	.....	.....	.....	.....	.....	.....	1	0·08	0·08	0·24	44·27	
		Arrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	66·96	
		Mohaniah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·07	
	Gya ...	Aurungabad...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	59·49	
		Gya ...	0·08	.....	.....	.....	.....	.....	.....	1	0·08	0·08	0·17	60·12	
		Nowadah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	54·84	
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	53·35	
		Arwal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·43	
		Daudnagar ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	29·85	
		Sherghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	36·81	
		Rajauli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	45·00	
		Pakri Barawan	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·24	
	Patna ...	Patna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	50·02	
		Dinapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	52·13	
		Behar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	40·95	
		Barrh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	43·25	
		Bickram ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·35	
		Hilsa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	
	Monghyr ...	Begoosarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	44·20	
		Monghyr ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	54·84	
		Jamui ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	60·22	
		Gogri ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·44	
		Sheikpura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·76	
	South Bhagulpore.	Bhagulpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	59·77	
		Banka ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	42·11	
		Kulgong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·06	
		Bongaon ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	56·86	
		Godda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	50·75	
		Pakour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	74·16	
		Nya Doomka ...	.....	0·14	.....	.....	.....	.....	.....	1	0·14	0·14	0·10	74·36	
		Deoghur ...	0·08	.....	.....	.....	.....	.....	.....	1	0·08	0·08	0·06	49·51	
		Jamtara ...	.....	0·16	.....	.....	.....	.....	.....	1	0·16	0·16	0·11	76·59	
		Mohasama ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·81	
		Nasnhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	32·28	
Chutia Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	.....	0·02	.....	.....	.....	.....	.....	1	0·02	0·02	0·00	55·37	
		Hazaribagh ..	0·05	.....	.....	.....	.....	.....	.....	1	0·05	0·05	0·20	50·02	
		Semtagurah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	39·04	
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	43·02	
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	56·80	
		Barhi ...	0·13	.....	.....	.....	.....	.....	.....	1	0·13	0·13	?	50·37	
		Chatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	47·08	
		Karagdeha ...	0·07	.....	.....	.....	.....	.....	.....	1	0·07	0·07	?	57·41	
		Kamphar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·24	
	Lohardugga ...	Lohardugga...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	59·19	
		Ranchi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	48·57	
		Palamow ..	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	44·27	
		Silli ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·85	
		Baiumat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	43·62	
		Hosseinabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	41·75	
		Garwah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·30	
	Singbhoom ..	Chyebassa ...	.....	0·21	.....	.....	.....	.....	0·18	2	0·39	0·59	0·24	56·53	
		Chakradharpore.	.....	.....	.....	.....	.....	0·05	.....	1	0·05	0·05	?	24·88	
		Ghatsilla ...	.....	0·42	.....	.....	.....	.....	.....	1	0·42	0·42	?	51·88	
		Baharagura ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·12	?	52·05	
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	44·22	
		Gobindpore ...	.....	0·29	.....	.....	.....	.....	.....	1	0·29	0·29	0·12	39·13	
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·26	
		Burrabhoom ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	?	44·22	
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64·71	
		Chas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·18	

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the r are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 23*rd December* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 19TH OF DECEMBER 1890.

FOR some days before the close of the previous week a fairly well-marked but feeble barometric depression had existed over North Bengal and parts of Central and South-West Bengal, and this had given rise to slightly disturbed weather with rather excessive temperature and with occasional rain showers. On the 12th, or the last day of the week, however it appeared as if the general weather conditions were becoming rather more normal, but on the 13th again a rather rapid fall of pressure took place over Chutia Nagpur and parts of Central and South-West Bengal and Orissa. Pressure on this day was in considerable defect of the normal over Chutia Nagpur and Orissa and the western and south-western parts of South-West Bengal, as well as over parts of North Behar and North Bengal, the defect over other districts being comparatively small, and this was accompanied by rather high temperature, the excess above the normal varying from nearly two degrees at Calcutta to about seven degrees at Cuttack and False Point. Conditions were therefore again somewhat abnormal on this day, and their effect was seen in the somewhat numerous local rain showers which were reported on the 14th in Orissa, South-West Bengal, and Chutia Nagpur From the 13th to the 14th pressure generally rose by small amounts, but still Chutia Nagpur, the south-western stations of South-West Bengal and part of Orissa showed a distinctly defective pressure on the 14th compared to the remainder of the province, and again on the morning of the 15th rain showers were reported from Orissa, but conditions were evidently less disturbed than they were; and though temperature was rather largely in excess of the normal over the whole of the south-western districts, the largest excess temperatures of about 5° and upwards were confined to such stations as Saugor Island, Balasore, Cuttack, and False Point A very rapid rise of pressure had taken place on the 15th, and at many stations it equalled more than a tenth of an inch. This had the effect of bringing the general pressure of the province above the normal, and temperature commenced to fall rather rapidly, though it still was above the normal. The wind current blowing over the province on the 15th was, however, still a little unsteady, though it was evident conditions were less disturbed than they were. On the 16th pressure changes were very small, but the fall of temperature continued, and over a large part of the province temperature was lower than the normal, while also a steady northerly wind current was blowing at almost all stations; so that on this day practically normal cold season conditions were again established. The pressure variations on the 17th and 18th were of little importance, but temperature at the western stations commenced to increase on the 17th, and this increase continued rather rapidly on the 18th; so that on this date at all the western stations the mean temperature was in excess of the normal by amounts ranging up to more than 5° at Dehree, Gya, Ranchee, Chyebassa, and Cuttack. On the 19th, or the last day of the week, pressure commenced to rise more rapidly, and became generally in excess of the normal, and temperature began to decrease at the western stations, though it rose in the centre and east of the province; and on this day the mean temperature was in excess of the normal at practically all stations except a few in the south-east of the province, the excess usually ranging from about 1° up to 5°. A fairly steady northerly wind current was, however, still blowing over practically the whole province on the 19th. It will therefore be seen that the principal feature of the week has been the continued relatively high temperature over the western districts of the province.

Pressure—Has varied rather considerably, as noticed above, but the mean pressure has been very nearly equal to the normal for the week, and about half the stations show slightly defective pressures and half slight excess pressures. The variations are however, rarely more than one or two-hundredths of an inch, and generally pressure has been in excess in Behar and North, East, and South-West Bengal, and below it elsewhere.

Temperature.—The mean temperature for the week has been more than 5° in excess of the normal in Orissa, about two and-a-half degrees in excess in Chutia Nagpur, and about 1° in excess in South-West Bengal and South Behar. In other districts slight defects are shown varying up to 1 2° in North Bengal.

The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with

their normal values for the same period. It will be seen that the variations have generally been largest in the night or minimum temperatures:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 19*th of December* 1890.

	Normal mean maximum temperature for the week ending 19th December.	Actual mean maximum temperature for the week ending 19th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 19th December.	Actual mean minimum temperature for the week ending 19th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 19th December.	Actual mean daily temperature for the week ending 19th December 1890.	Variation of actual mean from the normal.
Cuttack	82·3	85·1	+2·8	54·2	60·9	+6·7	70·3	76·0	+5·7
Calcutta	76·3	77·0	+0·7	56·0	57·6	+1·6	66·1	67·3	+1·2
Dacca	78·4	77·2	—1·2	57·1	55·7	—1·4	67·7	66·5	—1·2
Burdwan	77·8	77·7	—0·1	55·9	56·7	+0·8	66·8	67·2	+0·4
Patna	74·1	73·4	—0·7	51·3	52·1	+0·8	62·7	62·8	+0·1
Gya	75·6	76·4	+0·8	51·4	53·5	+2·1	63·5	65·0	+1·5
Purneah	76·0	73·3	—2·7	49·1	48·2	—0·9	62·6	60·8	—1·8
Hazaribagh	71·3	72·4	+1·1	50·4	52·3	+1·9	60·8	62·4	+1·6
Darjeeling	48·9	44·5	—4·4	36·3	33·8	—2·5	42·6	39·2	—3·4

Rainfall.—The rainfall for the week has been rather local. The only district where the falls have been of any importance has been Orissa, which has averaged 0·39 inch. In the districts of South-West Bengal, Chutia Nagpur, South Behar, and East Bengal, the falls have averaged less than a tenth of an inch. North Bengal and North Behar have been rainless, except for a slight shower at Buxa in the Darjeeling Hills district.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 19th of December 1890:—

Meteorological Divisions	Temperature. Highest observed during week.	Lowest observed during week.	Averages for week. Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week above or below normal mean of week.	Rainfall. Of week. Average.	Normal average.	Variation.	Rainy days. Average number in week.	Normal average number in week.	Variation.	Since 1st of month. Average.	Normal average.	Since 15th May 1890. Average.	Normal average.
Orissa	80·7	59·6	82·2	66·2	74·2	+5·1	0·39	0·03	+0·36	0·7	0·1	+0·6	0·44	0·39	63·71	53·02
South-West Bengal ...	84·3	48·3	77·7	56·8	67·3	+0·8	0·09	0·01	+0·08	0·4	0·1	+0·3	0·09	0·18	56·92	51·46
East Bengal	80·5	50·1	76·3	54·5	65·4	—0·6	0·01	0·01	0	0·1	0·1	0	0·07	0·32	71·49	73·98
North Bengal	77·0	47·3	74·4	51·3	62·9	—1·2	Nil	0·03	—0·03	0·0	0·1	—0·1	Nil	0·13	95·09	68·97
North Behar	76·8	43·9	73·7	40·6	61·7	—0·8	Nil	0·05	—0·05	0·0	0·1	—0·1	Nil	0·10	64·38	46·08
South Behar	79·3	47·5	75·1	51·5	63·3	+0·8	0·02	0·08	—0·06	0·3	0·2	+0·1	0·09	0·13	54·68	48·32
Chutia Nagpur	77·5*	48·7*	74·1*	52·1*	63·1*	+2·4*	0·07	0·12	—0·05	0·4	0·2	+0·2	0·09	0·18	46·09	48·47

* Chyebassa not included.

Meteorological Office, Bengal;
The 23rd December 1890.

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 14th to 20th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction	Miles recorded.	Rain.	Weather.
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Dec.	14th	129·5	8·7	29 969	68·6	76 6	15 4	61·2	63·6	0·522	60·2	75	NE and calm ..	38	Nil	Chiefly clear.
,,	15th	127·7	8·9	30 039	66 6	76·0	18 2	57·8	61·4	·477	57 6	74	N and calm ...	32	,,	Clear, ≏.
,,	16th	127 5	8·8	● 043	64 9	74 6	18 8	55 8	59 6	·444	55 6	74	NNW, NNE, and calm.	16	,,	Clear, ≏.
,,	17th	128·8	9·0	040	65 0	77 1	23·3	53 8	59 6	·443	55 6	73	NNW and calm ...	18	,,	Clear, ≏.
,,	18th	128·2	7·8	040	66 2	78 4	22·2	56 2	61·5	·490	58 4	78	Calm and variable ..	8	,,	Clear, ≏, ≡.
,,	19th	130·6	8·3	·062	68·1	78 6	19·3	59 3	62 9	·507	59 1	76	NNW and calm ...	19	,,	Chiefly clear ≏, ≡.
,,	20th	128·6	9·1	·058	66 4	76·4	21·0	55·4	60 6	·454	56 2	72	NNW and calm ...	30	,	Clear, ≏.

		Inches.
The mean pressure of the seven days		30·036
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...		30·031
		Hours.
The total number of hours of bright sunshine		60·6
The maximum possible number of hours of sunshine		75·0
		°
The mean temperature of the seven days		66·5
The average temperature of the corresponding period for 24 years, S.-G.'s Office		67·4
The extreme variation of temperature		24·8
The maximum temperature		78·6
		Miles.
The highest velocity of the wind in one hour		6
		lbs.
The highest pressure of wind on one square foot		?
		%
The mean relative humidity		75
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office		71
		Inches.
The total fall of rain from 14th to 20th December 1890		Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		0·01
The total fall from 1st January to 20th December 1890		61·28
The average fall of the corresponding period for 24 years, S.-G.'s Office ...		65·23

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

≏, dew; ≡, fog.

C. LITTLE,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 22nd December 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 14th to 20th December 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.				Hygrometry.					Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
December ...	14th ...	30·035	70·0	78·0	16·1	61·9	71·6	64·6	·517	59·9	67	0·17
,, ...	15th ...	·108	68·1	76·9	17·6	59·3	71·6	62·7	·452	56·1	58	...
,, ...	16th ...	·120	66 4	75·9	19·0	56·9	69·6	61·7	·445	55·7	61	.
,, ...	17th ...	·106	66·4	77·9	23·0	54·9	70·0	62·7	·474	57·5	65	...
,, ...	18th ...	·093	68·6	79·7	22·3	57·4	71·1	63·6	·489	58·3	64	...
,, ...	19th ...	·121	69·9	79·4	19·1	60·3	74·6	69·6	·658	66·8	77	...
,, ...	20th ...	·137	67·2	77·2	20·1	57·1	71·1	61·7	·425	54·4	56	...

	Inches.
The mean 10 A.M. pressure of the seven days	30·103
	°
The mean temperature of the seven days	68·1
The extreme variation of temperature	24·8
The maximum temperature	79·7
	%
The mean 10 A.M. relative humidity of the seven days	64
The total fall of rain from 14th to 20th December 1890 ...	0 17

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. Little,

For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 22nd December 1890.

MEMORANDUM.

Quarterly review of births and deaths registered in twenty-seven principal towns of Bengal for the Quarter ending 30th September 1890.

BIRTHS.

THE births registered in twenty-seven of the principal towns of Bengal during the three months ending with September 1890 were 5,503, and correspond to an annual rate of 20·72 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1·52 lower than the mean rate of the corresponding quarters of the past five years (1885—89), and is also lower than the rate of the corresponding period of any of the past five years except 1887, *vide* the figures below:—

	Quarter ending 30th September of—						
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	26·80	22·60	18·36	21·52	32·44	22·24	20·72

The births registered in each of the twenty-seven principal towns during the third quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns;—

Towns.	Ratio per mille. Quarter ending 30th Septr. of—			Towns.	Ratio per mille. Quarter ending 30th Septr. of—		
	1890.	1889.	Average of five years 1885—89.		1890.	1889.	Average of five years 1885—89.
Burdwan	24·28	20·40	18·76	Narainganj	23·88	19·40	18·76
Midnapore	15·84	14·88	16·92	Chittagong	9·54	12·28	19·68
Hughli and Chinsurah	25·24	28·40	22·32	Comillah	16·56	20·60	27·24
Serampore	28·52	33·96	25·48	Patna City	14·52	14·00	24·20
Utterpara	23·92	23·92	19·00	Gya	27·36	2·.20	33·36
Howrah	18·76	21·96	18·84	Arrah	20·88	38·44	24·36
Bali	14·28	18·08	15·36	Mozufferpore	18·12	24·76	19·36
Krishnagar	14·24	17·60	15·72	Durbhanga	25·08	25·08	27·20
Ranaghat	13 80	8·72	7·36	Chupra	17·56	29 88	18·48
Santipore	15·88	20·60	11·56	Bhagulpore	34·48	28·96	32·20
Jessore	7·52	13·16	6·56	Monghyr	37·24	34·32	33·48
Rampore Beauleah	34·12	27·08	22·00	Purneah	13·04	7·96	13·04
Darjiling	42·72	29·60	14·20	Poori	13·20	21·12	16·44
Dacca	14·36	13·12	12·12	Total ...	20·72	22·44	22·24

It will be seen that the highest birth rate during the third quarter of 1890 occurred in the town of Darjiling (42·72) and the lowest in Jessore (7·52). The supposed standard in India is 40 per thousand, but only in Darjiling town out of the twenty-seven principal towns of Bengal was this standard reached during the quarter under report. The nearest approach to it was attained in the towns of Monghyr (37·24) and Rampore Beauleah (34·12). In only three, however, out of the twenty-seven principal towns of the province,—viz. Darjiling. Monghyr, and Rampore Beauleah—did the statistics of birth registration exceed 30 per thousand. In all the rest the rate was very low, especially in the towns of Bali, Krishnagar, Ranaghat, Jessore, Dacca, Chittagong, Patna City, Purneah, and Poori, where the statistics are so imperfectly recorded that the ratio was less than 15 per thousand of population.

DEATHS.

The deaths registered in the twenty-seven principal towns of Bengal during the quarter ending with September 1890 were 6,200, and correspond to an annual rate of 23·36 per 1,000 of the aggregate population of those towns. This rate is 6·40 lower than the mean rate of the corresponding period of the past five years 1885—89, and is also lower than the recorded mortality of the corresponding quarter of any of the past five years with which comparison is instituted, *vide* the figures below:—

	Quarter ending 30th September of—						
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	35·46	29·92	26·72	27·36	29·44	29·76	23·36

The deaths registered in each of the twenty-seven principal towns during the third quarters of 1890, 1889, and the average of the five years 1885—89, correspond to the following rates per 1,000 of the population of those towns :—

Towns.	Ratio per mille. Quarter ending 30th Sept. of—			Towns.	Ratio per mille. Quarter ending 30th Sept. of—		
	1890.	1889.	Average of five years 1885—89.		1890.	1889.	Average of five years 1885—89.
Burdwan	20·72	27·44	25·08	Naraingani	15·92	21·96	18·12
Midnapore	19·40	20·96	20·84	Chittagong	17·88	12·44	19·12
Hughli and Chinsurah	21·24	30·52	27·12	Comillah	21·32	17·76	20·72
Serampore	42·12	42·72	35·76	Patna City	17·52	19·56	25·68
Utterpara	28·24	31·20	21·04	Gya	45·60	62·60	73·88
Howrah	14·06	18·52	17·96	Arrah	24·20	28·20	30·80
Bali	20·76	18·88	16·72	Mozufferpore	21·64	27·76	27·40
Krishnagar	9·28	14·52	16·28	Durbhanga	28·08	34·00	26·00
Ranaghat	17·04	11·48	7·36	Chupra	24·04	34·36	32·88
Santipore	14·92	12·52	9·56	Bhagulpore	10·28	31·36	39·04
Jessore	26·36	21·16	14·12	Monghyr	24·32	47·56	38·84
Rampore Beauleah	23·24	31·52	29·48	Purneah	15·16	15·68	22·08
Darjiling	45·00	45·00	35·20	Poori	37·12	72·44	71·88
Dacca	21·48	20·64	17·20	Total ...	23·36	29·44	29·76

The highest mortality during the third quarter of 1890 occurred in the town of Gya (45·60) and the lowest in Krishnagar (9·28). The total mortality of the twenty-seven principal towns in 1890 is lower than the total rates of the two past periods with which it is compared. Registration of deaths was particularly low in the towns of Krishnagar, Santipore, Howrah, Purneah, Naraingani, Ranaghat, Patna City, Chittagong, Bhagulpore, and Midnapore, where the ratios are less than 20 per thousand of population.

The total mortality during the quarter under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding quarters of 1889 and the average of the five years 1885—89 : —

	Ratio per mille during the—		
	Quarter ending 30th September 1890.	Quarter ending 30th September 1889.	Quarterly average of quarter ending 30th September 1885—89.
Cholera	3·36	4·44	5·72
Small-pox	·16	·24	·12
Fever	9·60	10·96	10·96
Bowel-complaints	3·00	4·20	4·00
Injury	·52	·52	·60
Other causes	6·60	8·96	8·28

The above statement, compared with the figures of both the past periods, shows a noticeable decrease in the mortality of the 3rd quarter of 1890 under the heads cholera, fever, bowel-complaints, and other causes.

The highest annual death-rates from the several registered death-causes occurred in the following towns : —

Cholera.	Ratio per mille.	*Fever.*	Ratio per mille.	*Bowel-complaints.*	Ratio per mille.	*Other causes.*	Ratio per mille.
Chupra ...	11·92	Darjiling ...	25·04	Darjiling ...	14·24	Serampore ...	16·72
Mozufferpore ...	7·76	Gya ...	21·48	Utterpara ...	10·16	Gya ...	15·48
Arrah ...	7·52					Poori ...	14·52
Gya ...	6·80					Utterpara ...	10·16
Durbhanga ...	6·80						
Santipore ..	4·44						
Patna City ...	4·08						
Serampore ...	3·16						
Midnapore ...	2·72						
Poori ...	2·24						

The mortality of the quarter under review according to *Sex*, *Class* and *Age* was distributed as follows :—

According to Sex.	Ratio per mille.	*According to Class.*	Ratio per mille.	*According to Age.*	Ratio per mille.
Males	24·40	Christians ...	17·80	Under 1 year ...	189·40
Females	22·20	Hindus ...	24·44	1 year and under 5 years ...	35·92
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population	109	Mahomedans ...	20·88	5 years „ 10 „ ...	14·76
		Buddhists ...	3·92	10 „ „ 15 „ ...	12·28
		Other Classes ...	5·88	15 „ „ 20 „ ...	14·08
				20 „ „ 30 „ ...	12·40
				30 „ „ 40 „ ...	13·64
				40 „ „ 50 „ ...	17·00
				50 „ „ 60 „ ...	24·80
				60 years and upwards ...	55·16

Detailed information regarding the vital statistics of the twenty-seven principal towns of Bengal of the quarter under review will be found in the statement appended.

The 22nd December 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

1	2	3			4			5			6	7							8							9	10		11		12
		POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																			
												Disease.																Sex.			
DISTRICTS.	NAMES OF MUNICIPALITIES.				NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.			Ratio of male births to every 100 female births.	DEATHS FROM—							RATIO PER 1,000 OF POPULATION PER ANNUM.							Ratio of deaths per 1,000 of population per annum in the previous quarter.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male births to every 100 female births, calculated on the proportion such mortality bears to the total male and female population.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.		Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan	18,063	16,017	34,080	107	100	207	12·52	11·72	24·23	107	1	1	91	28	9	47	177	·08	·08	10·68	3·28	1·04	5·48	20 72	21·63	96	81	21·24	20·20	105
Midnapore ...	Midnapore ...	16,927	16,633	33,560	62	71	133	7·36	8·44	15 84	87	23	2	38	41	...	59	163	2·72	·20	4·52	4·88	...	7·00	19·40	23·36	91	72	21·48	17·28	124
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	97	103	200	12·24	13·00	25·24	94	1	7	91	30	4	67	200	·12	·88	11·48	3·76	·48	8·44	25 24	40 64	102	98	25·72	24·76	103
Serampore ...	Serampore... ...	13,559	12,937	26,496	117	72	189	17·64	10·84	28·52	162	21	...	89	57	5	111	283	3·16	...	13·40	8·60	·72	16·72	42·72	30·16	174	109	51·32	33·68	152
	Utterpara	3,046	2,464	5,510	15	18	33	10·88	13 04	23·92	83	2	...	8	14	1	14	39	1·44	...	5·80	10·16	·72	10·16	28·28	25·40	24	15	31·48	24·32	129
Howrah ...	Howrah	53,153	37,660	90,813	236	190	426	10·36	8·36	18·76	124	17	2	143	63	8	102	340	·72	·08	6·28	2·96	·32	4·48	14·96	17 04	195	145	14·64	15 40	95
	Bali	7,836	6,979	14,815	34	19	53	9·16	5·12	14·28	179	...	1	47	15	1	13	77	...	·24	12·68	4·04	·24	3·48	20·76	18·32	52	25	26·52	14·32	185
Nuddea ...	Krishnagar ...	13,263	14,214	27,477	42	56	98	6·08	8·12	14·24	75	...	...	36	4	2	22	64	...	...	5·24	·56	·28	3·20	9·28	9·28	31	31	9·92	8·72	113
	Ranaghat	4,028	4,655	8,683	14	16	30	6·44	7·36	13·80	87	2	...	15	3	2	15	37	·92	...	6·88	1·36	·92	6·84	17·04	12·89	20	17	19·84	14·60	136
	Santipore	13,708	15,979	29,687	64	54	118	8·60	7·24	15·88	118	33	..	53	9	4	12	111	4·44	...	7·12	1·20	·52	1·20	14·92	9·96	51	60	14·88	15·00	99
Jessore ...	Jessore	4,830	3,665	8,495	8	8	16	3·76	3·76	7·52	100	...	...	42	8	2	9	56	...	...	19·76	1·40	·92	4·20	26·36	13·33	30	26	24 84	28·36	87
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	89	80	169	17·96	16·16	34·12	111	1	...	84	7	3	20	115	·20	...	16·96	1·40	·60	4·04	23·24	28·03	51	64	18·92	28·36	66
Darjiling ...	Darjiling ...	4,679	2,439	7,018	37	38	75	21·08	21·64	42 72	97	...	1	44	25	...	9	79	...	·56	25·04	14·24	...	5 12	45 00	55·84	47	32	41·04	52·48	78
Dacca	Dacca	42,782	37,379	80,161	144	144	288	7·16	7·16	14·36	100	29	9	163	71	9	150	431	1·44	·44	8·12	3·52	·44	7·48	21·48	23·04	271	160	25·32	17·12	147
	Naraingunj ...	7,605	4,956	12,561	39	36	75	12·40	11·44	23·88	108	...	...	23	6	2	19	50	...	...	7·32	1·88	·60	6·04	15·92	19·40	27	23	14·20	18·56	76
Chittagong ...	Chittagong ...	13,340	8,790	22,130	29	24	53	5·24	4·32	9·56	120	3	1	52	20	4	19	99	·52	·16	9 36	3·60	·72	3·40	17·88	13·52	63	36	18·88	16·36	115
Tipperah ...	Comillah	8,153	5,353	13,506	29	27	56	8·56	7·96	16·56	107	...	...	54	2	3	13	72	...	...	15·96	·56	·88	3·84	21·32	24 56	40	32	19·60	23·88	82
Patna	Patna City ...	78,761	81,475	160,237	337	246	583	8·40	6·12	14·52	137	165	6	216	107	18	191	703	4·08	·12	5·36	2·64	·44	4·76	17·52	22·56	381	322	19·32	15·80	123
Gya	Gya	38,290	37,831	76,121	264	257	521	13·84	13·48	27·36	102	130	1	409	26	7	295	868	6·80	·04	21·48	1·36	·36	15·48	45·60	37·56	424	444	44·28	46·92	94
Shahabad ...	Arrah	20,960	22,595	43,465	179	146	325	16 44	13·40	29·58	122	82	3	119	14	7	38	263	7 52	·24	10·92	1·28	·64	3·48	24·20	24·00	145	118	27·64	20·96	131
Mozufferpore...	Mozufferpore ...	23,084	19,658	42,742	98	96	194	9·16	8·96	18·12	102	83	2	73	44	12	60	274	7·76	·16	6 80	4·08	1·12	5·60	25·64	24·20	137	137	25·72	27·84	85
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	216	199	415	13·04	12·04	25·08	103	113	1	195	66	10	89	474	6·80	·04	11 80	3·96	·60	5·36	28·68	29 68	238	235	28·16	29·20	96
Sarun	Chupra	25,116	26,154	51,670	120	107	227	9·28	8·28	17·56	112	154	6	53	23	8	67	311	11·92	·44	4·08	1·76	·64	5·16	24·04	13·84	178	133	28·32	20·00	141
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	200	152	352	13·52	10·56	24·48	131	5	...	149	16	2	105	277	·32	...	10·36	1·08	·12	7·28	19 28	24 40	150	127	20·24	18·24	111
Monghyr ...	Monghyr	28,154	29,366	57,520	260	276	536	18·08	19 16	37·24	94	17	...	148	57	15	113	350	1·16	...	10·28	3·96	1·04	7·84	24·32	24·88	191	159	27·12	21·60	125
Purneah ...	Purneah	8,463	6,553	15,016	28	23	49	6·92	6·12	13·04	113	1	...	43	9	1	3	57	·24	...	11·44	2·36	·24	·76	15·16	22 64	31	26	14 64	15·84	92
Poori	Poori	13,247	11,537	24,784	46	36	82	7·40	5·80	13·20	127	14	5	80	36	5	90	230	2·24	·80	12·88	5·80	·80	14·52	37·12	101·32	124	106	37·44	36 72	102
	TOTAL ...	550,986	510,588	1,061,574	2,909	2,594	5,503	10·96	9·76	20·72	112	897	48	2,558	801	144	1,752	6,200	3·36	·16	9·60	3·00	·52	6·69	23·36	25·48	3,365	2,834	24·40	22·20	109

		12					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
DISTRICTS.	NAMES OF MUNICIPALITIES.	DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan ...	Burdwan	...	137	40	..	...	.... ..	23·13	15·56	...	...	28	8	15	6	11	20	25	18	21	25	169·68	14·16	25·72	9·52	14·04	10·08	14·48	16·28	34·20	67·44
Midnapore ...	Midnapore ...	...	136	26	...	1	.....	20·96	11·40	...	21·60	22	9	5	5	8	18	22	23	18	34	118·40	15·28	5·32	6·56	10·12	9·80	15·84	22·60	34·88	76·28
Hughli ...	Hughli and Chinsurah.	...	167	33	...	...	.....	38·40	21·40	...	...	49	29	14	7	6	28	17	19	14	26	199·24	52·24	19·40	11·28	9·56	13·04	11·88	18·20	21·52	66·16
Serampore ...	Serampore ...	1	251	31	...	...	12·52	39·76	132·16	...	...	49	29	14	21	11	32	27	20	25	55	276·94	64·24	23·24	37 80	20·12	23·76	21·72	23·68	32·20	136·12
	Uttarpara	...	38	1	...	...	.....	23·52	21·72	...	...	8	3	3	2	3	4	5	...	4	7	198·72	28·48	25·62	16·68	27·24	13·68	18·84	.....	43·44	107·68
Howrah ...	Howrah	5	254	31	...	...	10·52	14·88	15·76	...	...	65	48	23	10	13	43	41	37	22	39	123·00	34·64	13·96	6·04	6·52	7·56	8·92	12·56	16·00	40·52
	Bali	...	64	13	...	...	.....	19·08	39·64	...	...	16	10	10	3	...	5	3	10	5	15	176·76	40·04	37·52	19·08	.....	5·96	4·28	29·64	19·08	31·96
Nuddea ...	Krishnagar	...	44	20	...	...	.....	9·44	9·64	...	...	18	4	3	2	2	5	3	10	8	9	145·16	6·48	3·48	2·84	3·88	4·12	2·80	12·24	14·18	30·20
	Ranaghat	...	31	6	...	...	.....	16·92	17·56	...	...	5	2	3	5	...	4	6	4	5	3	96·60	10·04	16·76	23·04	.....	10·80	19·24	15·92	27·80	21·06
	Santipore	...	88	23	...	...	.....	17·00	10·28	...	...	20	8	8	5	6	7	13	6	7	31	94·64	11·04	8·44	6 88	10·76	5·68	11·88	6·80	12·16	68·12
Jessore ...	Jessore	...	26	30	...	...	.... ..	23·04	31·36	...	...	9	8	3	5	3	7	6	5	4	6	135·56	64·76	15·12	30·04	16·36	13·88	15·68	19·04	28·40	52·40
Rajshahye ...	Rampore Boalieah	1	65	49	...	...	70·16	26·20	19·96	...	...	20	11	18	7	2	13	7	14	9	15	197·04	31·00	34·60	15·52	4·80	11·52	7·76	22·80	29·00	58·28
Darjiling ...	Darjiling ...	8	68	2	1	...	200·00	59 20	13·04	2·40	...	9	24	5	...	4	17	7	6	5	2	297·52	149·28	34·16	.....	25·00	34·00	19·52	34·68	61·96	47·32
Dacca ...	Dacca	1	249	121	...	...	8·40	21·68	13·40	...	...	58	49	23	18	25	55	56	44	36	67	122·20	26·56	9·24	9·04	13·68	14·32	19·20	29·96	30·40	48·08
	Narainganj ...	...	20	30	...	...	.....	13·64	19·48	...	...	16	9	3	1	...	4	4	3	3	7	229·36	31·56	9·08	3·52	.....	5·96	7·48	8·60	15·32	32·92
Chittagong ...	Chittagong ...	5	21	73	1	...	25·12	14·44	18·84	16·64	...	13	7	7	10	6	15	8	12	7	14	92·36	146·40	11·20	15·52	9·92	12·96	9·56	21·24	25·80	70·32
Tipperah ...	Comillah	...	25	47	...	...	.....	16·80	25·40	..	...	18	8	5	4	4	3	3	9	4	14	241·40	24·24	12·28	10·96	12·68	4·32	6·00	27·36	19·96	62·56
Patna	Patna City ...	...	551	152	...	...	.....	18·52	14·84	...	...	126	106	53	41	35	73	65	56	35	113	116·92	29·04	12·56	11·36	12·52	10·12	9·44	11·88	9·88	31·72
Gya	Gya	1	700	167	...	...	181·80	46·64	41·52	...	...	205	128	49	36	24	63	69	74	77	147	458·08	80·56	22·84	21·36	18·32	18·48	21·68	30·28	46·84	116·24
Shahabad ...	Arrah	...	188	75	...	...	.....	24·24	24·16	...	...	47	33	16	20	14	36	23	21	19	34	145·96	29·76	12·44	16·08	17·76	18·32	14·28	17·88	25·52	47·12
Monghyr ...	Monghyr ...	1	205	68	...	...	17·16	27·28	21·76	...	...	49	52	22	16	21	29	25	14	25	21	205·20	51·44	19·52	16·16	27·68	13·48	14·32	11·16	30·76	34·48
Darbhanga ...	Darbhanga ...	1	330	143	...	...	35·36	27·24	32·56	...	...	85	73	56	36	13	44	33	38	37	55	218·36	40·96	28·60	25·88	11·92	13·20	11·80	20·40	33·72	68·24
Saran	Chapra	...	243	68	...	...	.....	24·48	22·80	...	...	44	50	16	13	21	42	26	25	33	40	124·72	38·72	10·72	9·56	26·48	18·20	13·32	16·44	31·92	47·00
Bhagalpore ...	Bhagalpore ...	3	191	63	...	...	31·08	19·20	19·24	...	...	77	38	15	9	18	25	34	19	15	27	257·92	28·04	10·20	5·72	17·20	9·12	14·64	11·80	14·88	39·96
Monghyr ...	Monghyr	2	277	72	...	...	33·60	24·76	22·56	...	...	112	60	15	7	20	31	31	16	13	46	301·68	38·56	8·48	4·88	21·16	11·96	13·68	10·04	12·04	51·28
Purnea ...	Purnea	1	32	24	...	...	23·92	13·92	16·92	...	...	10	5	4	5	6	7	8	5	4	3	141·32	16·52	10·12	16·72	24·12	8·52	11·20	18·76	17·04	14·84
Pooree ...	Pooree	1	227	2	...	...	93·00	37·09	38·08	...	...	33	19	10	3	9	21	29	26	27	53	435·64	42·28	17·84	6·36	19·34	15·88	28·60	31·28	49·40	117·38
	TOTAL ...	31	4,622	1,538	2	1	17·80	24·44	20·58	3·92	5·88	1,202	835	408	296	285	655	598	533	481	907	159·40	35·92	14·76	12·28	14·08	12·40	13·64	17·00	24·80	55·16

OFFICE OF SANITARY COMMISSIONER FOR BENGAL;
The *December* 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 6th December 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 6th December 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 30·5 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·3 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	25·6	27·5	27·5	27·3	28·4	27·2	30·5

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	Towns.	Weeks ending— 15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.
Burdwan	21·4	39·7	33·6	44·2	Naraingunj	74·5	37·3	91·1	74·5
Midnapore	1·5	53·2	26·3	29·4	Chittagong	16·4	9·4	4·7	18·8
Hughli and Chinsurah	32·8	44·1	24·6	29·5	Comillah	23·1	27·0	42·4	50·1
Serampore	55·9	43·2	34·4	25·5	Patna City	10·7	14·3	12·8	15·3
Uttarpara	37·7	56·6	56·6	37·7	Gya	21·9	34·2	21·9	27·3
Howrah	28·1	36·1	31·5	30·9	Arrah	10·8	34·5	10·8	29·9
Bali	21·1	31·6	14·0	35·1	Mozufferpore	32·8	10·9	24·3	31·6
Krishnagar	18·3	11·4	9·5	13·2	Durbhanga	36·2	40·1	46·4	44·1
Ranaghat	24·0	12·0	6·0	6·0	Chupra	14·1	22·1	21·1	35·2
Santipore	19·3	24·6	22·8	17·5	Bhagulpore	37·1	24·4	40·7	31·7
Jessore	30·6	6·1	6·1	..	Monghyr	30·7	38·9	37·1	41·6
Rampore Beauleah	44·7	52·5	49·9	44·7	Purneah	6·9	10·4	17·3	17·3
Darjiling	44·5	29·6	41·5	29·6	Poori	14·7	14·7	12·6	33·6
Dacca	24·0	31·1	31·1	42·8	Total ...	24·2	27·6	26·5	30·5

It will be seen that last week the highest birth-rate was returned from Naraingunj (74·5) and the lowest from Ranaghat (6). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 31·5 per 1,000 of the population. The rate of the week is 1·4 below the average rate of the corresponding week of the past five years, and is higher than the rate of the corresponding week of any of the past five years except 1885 and 1886, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	34·3	40·2	26·2	30·3	29·0	32·9	31·5

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	Towns.	Weeks ending— 15th Nov. 1890.	22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.
Burdwan	28·9	33·6	41·2	27·5	Naraingunj	58·0	58·0	120·1	120·1
Midnapore	20·1	29·4	20·1	29·4	Chittagong	14·1	9·4	18·8	28·2
Hughli and Chinsurah	32·8	37·7	27·9	29·5	Comillah	19·3	23·1	30·6	30·8
Serampore	72·6	68·4	55·0	69·7	Patna City	14·3	14·3	14·6	11·0
Uttarpara	66·1	28·3	75·5	66·1	Gya	44·4	49·9	30·1	62·8
Howrah	22·9	26·9	26·9	44·7	Arrah	12·0	13·2	7·2	22·9
Bali	21·1	17·5	17·5	21·1	Mozufferpore	17·0	17·0	14·6	23·1
Krishnagar	5·7	5·7	5·7	18·9	Durbhanga	18·9	31·0	27·5	26·0
Ranaghat	12·0	30·0	35·9	12·0	Chupra	8·0	15·1	8·0	27·2
Santipore	7·0	17·5	9·8	19·3	Bhagulpore	17·3	19·0	15·4	23·5
Jessore	49·0	18·4	30·7	18·4	Monghyr	27·1	20·2	28·0	28·0
Rampore Beauleah	18·1	47·2	47·2	31·5	Purneah	13·9	6·9	20·8	13·9
Darjiling	7·4	...	22·2	51·9	Poori	63·0	58·7	96·5	73·4
Dacca	18·6	46·4	25·5	51·1	Total ...	23·4	23·1	25·7	31·5

It will be seen that last week the highest mortality occurred in the town of Narainganj (120·1) and the lowest in Patna City (11·).

Measured by last week's mortality, the highest annual death-rates from the several registered death-causes occurred in the following towns :—

Cholera.	Ratio per mille.	*Small-pox.*	Ratio per mille.	*Fever.*	Ratio per mille.	*Bowel-complaints.*	Ratio per mille.	*Other causes.*	Ratio per mille.
Narainganj	62·1	Chittagong	9·4	Darjiling ...	44·5	Serampore	11·8	Serampore ...	27·5
Howrah ...	14·9			Poori ...	35·6			Gya ...	26·6
Serampore	13·7			Gya ...	33·5			Poori ...	23·1
Dacca ...	5·8			Narainganj ...	29·0			Midnapore ...	21·7
				Arrah ...	21·5			Hughli and Chinsurah	11·5
				Burdwan ...	21·4			Howrah .	11·5
				Rampore Beauleah	21·0			Chupra ..	11·1
								Dacca ...	10·4

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·9 from cholera, against 3·5 per 1,000 in the preceding week; ·5 from small-pox, against ·1; 13·7 from fever, against 11·7; 3·3 from bowel-complaints, against 2·5; ·4 from injury, against ·3; and 9·7 from other causes, against 7·5 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows :—

According to Sex.	Ratio per mille.	*According to Class.*	Ratio per mille.	*According to Age.*	Ratio per mille.
Males	33·2	Christians ...	22·4	Under 1 year ...	238·5
Females	29·7	Hindus ...	33·9	1 and under 5 years ...	36·4
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population...	111	Mahomedans ...	26·1	5 „ 10 „ ...	19·3
				10 „ 15 „ ...	14·0
				15 „ 20 „ ...	24·4
				20 „ 30 „ ...	20·7
				30 „ 40 „ ...	23·4
				40 „ 50 „ ...	18·7
				50 „ 60 „ ...	34·9
				60 years and upwards ...	79·1

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. Gregg, *Dip. Publ. Health, Camb.*,

The 23rd December 1890. *Sanitary Commissioner for Bengal.*

1	2	3			4			5			6	7							8						9	10		11		12
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.							MORTALITY ACCORDING TO—																		
					NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.				Disease.							RATIO PER 1,000 OF POPULATION PER ANNUM.								Sex.				
												DEATHS FROM—															DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fevers	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the previous week.	Males.	Females.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.
Burdwan ...	Burdwan	18,063	16,017	34,080	19	10	29	29·0	15·2	44·2	190	..	...	14	2	...	2	18	...	...	21·4	3·0	...	3·0	27·5	41·2	13	5	37·4	16·2	230
Midnapore ...	Midnapore ...	16,927	16,633	33,560	9	10	19	13·9	15·5	29·4	90	...	1	3	1	...	14	19	...	1·5	4·6	1·5	...	21·7	29·4	20·1	11	8	33·8	25·0	135
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	13	5	18	21·3	8·2	29·5	260	2	...	9	...	...	7	18	3·3	...	14·7	...	..	11·5	29·5	27·9	11	7	36·1	23·0	157
Serampore ...	Serampore ...	13,559	12,937	26,496	8	5	13	15·7	9·8	25·5	160	7	...	6	6	2	14	35	13·7	...	11·8	11·8	3·9	27·5	68·7	55·0	18	17	69·0	68·3	101
	Utterpara	3,046	2,464	5,510	3	1	4	28·3	9·4	37·7	300	...	...	3	3	...	1	7	...	...	28·3	28·3	...	9·4	66·1	75·5	3	4	51·2	84·4	60
Howrah ...	Howrah	53,153	37,660	90,813	39	15	54	22·3	8·6	30·9	260	26	...	16	13	3	20	78	14·9	...	9·2	7·4	1·7	11·5	44·7	26·9	54	24	52·8	33·1	159
	Bali	7,836	6,979	14,815	4	6	10	14·0	21·1	35·1	66	...	...	4	1	...	1	6	...	...	14·0	3·5	...	3·5	21·1	17·5	2	4	13·3	29·8	44
Nuddea ...	Krishnagar ...	13,363	14,214	27,477	5	2	7	9·4	3·8	13·2	250	1	...	7	...	...	2	10	1·9	...	13·2	...	...	3·8	18·9	5·7	6	4	23·5	14·6	161
	Ranaghat	4,928	4,655	8,583	1	...	1	6·0	...	6·0	No female birth.	1	...	1	...	...	...	2	6·0	...	6·0	...	...	...	12·0	35·9	1	1	12·9	11·2	115
	Santipore	13,708	15,979	29,687	5	5	10	8·7	8·7	17·5	100	..	...	9	...	...	2	11	...	...	15·8	...	...	3·5	19·3	8·8	9	2	34·1	6·5	524
Jessore ...	Jessore	4,930	3,665	8,495	...	...	...	...	...	...	.....	1	...	...	...	...	2	3	6·1	...	...	...	...	1·2	18·4	36·7	2	1	21·5	14·2	151
Rajshahye ...	Rampore Beauleah	10,766	9,025	19,791	11	6	17	23·9	15·8	44·7	183	2	...	8	...	..	2	12	5·2	...	21·0	...	...	5·2	31·5	47·3	6	6	29·0	34·6	84
Darjiling ...	Darjiling	4,579	2,439	7,018	4	...	4	29·6	...	29·6	No female birth.	..	...	6	...	...	1	7	...	...	44·5	...	...	7·4	51·9	22·2	7	...	79·5	...	No female death.
Dacca ...	Dacca	42,782	37,379	80,161	33	36	66	19·4	23·4	42·8	83	9	...	15	8	...	16	48	5·8	...	9·7	5·2	...	10·4	31·1	28·5	27	21	32·8	29·2	112
	Naraingunj ...	7,605	4,956	12,561	6	12	18	24·8	49·7	74·5	50	15	1	7	3	...	3	29	62·1	4·1	29·0	12·4	...	12·4	120·1	120·1	19	10	129·9	104·9	123
Chittagong ...	Chittagong ...	13,340	8,790	22,130	3	5	8	7·0	11·7	18·8	60	...	4	2	3	...	3	12	...	9·4	4·7	7·0	...	7·0	28·2	18·8	7	5	27·3	29·6	140
Tipperah ...	Comillah	8,153	5,353	13,506	7	6	13	27·0	23·1	50·1	116	3	...	2	...	...	3	8	11·5	...	7·7	...	...	11·5	30·8	30·8	4	4	25·5	38·9	65
Patna	Patna City ...	78,762	81,475	160,237	20	27	47	6·5	8·8	15·3	74	1	...	21	2	...	10	34	·3	...	6·8	·6	...	3·2	11·0	49·9	16	18	10·6	11·5	92
Gya	Gya	38,290	37,831	76,121	23	17	40	15·7	11·6	27·3	135	2	...	49	...	2	39	92	1·3	...	33·5	...	1·3	26·6	62·8	30·1	42	50	57·0	68·7	82
Shahabad ...	Arrah	20,960	22,505	43,465	17	8	25	20·3	9·6	29·9	212	...	...	19	..	...	2	20	...	...	21·5	...	...	2·4	23·9	7·2	6	14	14·9	32·3	46
Mozufferpore...	Mozufferpore ...	23,084	19,658	42,742	10	16	26	12·1	19·5	31·6	62	1	1	7	3	...	7	19	1·2	1·2	8·5	3·6	...	8·5	23·1	14·6	7	12	15·8	31·7	50
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	29	27	56	22·8	21·2	44·1	107	2	...	19	4	...	8	33	1·6	...	14·9	3·1	...	6·3	26·0	27·5	17	16	26·2	25·7	102
Sarun	Chupra	25,116	26,554	51,670	20	15	35	20·1	15·1	35·2	133	3	1	11	1	...	11	27	3·0	1·0	11·1	1·0	...	11·1	27·2	8·0	15	12	31·1	23·5	132
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	15	20	35	13·6	18·1	31·7	75	2	...	10	4	1	9	26	1·8	...	9·1	3·6	·9	8·1	23·5	15·4	16	10	28·1	18·7	150
Monghyr ...	Monghyr	28,154	29,366	57,520	23	23	46	20·8	20·8	41·6	100	...	1	12	10	...	8	31	...	·9	10·8	9·0	...	7·2	28·0	23·0	14	17	25·9	30·1	86
Purneah ...	Purneah	8,463	6,553	15,016	1	4	5	3·4	13·9	17·3	25	...	...	3	...	...	1	4	...	...	10·4	...	...	3·4	13·9	20·8	2	2	12·3	15·9	77
Poori	Poori	13,247	11,537	24,784	9	7	16	18·9	14·7	33·6	128	2	1	17	3	1	11	35	4·2	2·1	35·6	6·3	2·1	23·1	73·4	96·5	17	18	66·7	81·1	*82
	Total ...	559,986	510,588	1,061,574	334	288	622	16·4	14·1	30·5	115	80	10	279	67	9	199	644	3·9	·5	13·7	3·3	·4	9·7	31·5	25·7	352	292	33·2	29·7	111

DISTRICTS.	NAMES OF MUNICIPALITIES.	13					14					15										16									
		MORTALITY ACCORDING TO—																													
		Class.										Age.																			
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.									
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards
Burdwan ...	Burdwan	...	11	7	...	..	...	24·2	35·5	...	...	4	5	2	...	1	...	4	2	...	...	315·2	115·2	44·5	...	16·6	...	30·2	23·5	...	...
Midnapore ...	Midnapore ..	1	16	2	..	...	233·2	32·1	14·4	...	.	4	...	...	...	3	2	1	4	1	4	279·9	...	...	...	49·4	14·2	9·4	55·8	25·2	118·7
Hughli ...	Hughli and Chinsurah	...	15	3	...	...	...	30·9	25·3	...	...	6	1	2	...	...	1	4	1	...	3	388·5	23·4	36·0	...	...	8·4	36·4	12·5	...	75·3
Serampore ..	Serampore .	...	31	4	...	...	...	63·9	221·7	...	..	5	6	1	1	2	5	4	4	3	4	336·2	172·9	20·7	23·4	47·6	48·3	41·8	61·6	81·5	149
	Utterpara	...	6	1	...	...	...	58·6	282·6	...	..	1	...	1	...	1	3	...	...	1	...	323·0	...	111·6	...	118·2	135·5	...	...	141·3	...
Howrah ...	Howrah	...	57	21	...	...	...	43·5	53·2	...	...	9	9	6	8	6	12	13	6	2	7	226·9	84·5	49·6	63·2	42·6	27·5	35·1	26·5	18·9	97·0
	Bali	...	6	...	...	...	...	23·3	..	.	...	1	1	...	...	1	2	...	...	...	1	143·6	52·1	...	...	39·0	31·1	...	...	...	71·0
Nuddea ...	Krishnagar ..	...	9	1	...	...	...	25·1	6·3	...	.	2	1	...	...	...	2	1	...	2	2	209·7	21·1	...	...	...	21·6	13·1	...	49·4	60·2
	Ranaghat	...	2	...	...	...	...	14·2	...	.	.	...	...	...	...	..	1	...	...	...	1	...	...	...	...	...	34·5	...	...	...	91·4
	Santipore	...	9	2	...	...	...	22·6	11·6	...	...	2	1	2	...	2	1	1	2	...	...	123·1	17·9	27·5	...	46·7	10·6	12·0	29·6	...	...
Jessore ..	Jessore	...	2	1	...	...	...	23·1	13·6	...	...	...	...	1	...	...	1	1	...	...	...	...	...	65·6	...	...	25·3	34·0	...	...	...
Rajshahye ...	Rampore Beauleah	...	8	4	...	...	...	42·0	21·2	...	...	2	...	2	...	1	4	1	...	1	1	256·2	...	50·0	...	31·3	50·0	14·4	...	41·9	54·0
Darjiling .	Darjiling	...	7	...	...	...	...	79·2	...	...	...	...	2	...	..	1	...	...	...	2	2	...	161·7	...	...	81·3	...	...	...	426·2	615·4
Dacca	Dacca	1	30	17	...	..	109·5	38·7	22·5	...	..	6	7	2	5	3	6	6	3	3	7	164·4	49·4	10·5	31·7	21·4	20·4	26·8	18·6	31·9	65·3
	Naraingan] ..	...	14	15	...	...	...	115·1	126·6	...	...	4	5	1	...	3	7	7	...	...	2	745·5	228·1	39·4	...	149·3	136·3	170·2	...	...	189·5
Chittagong	Chittegong	.	2	10	...	...	...	17·9	34·0	...	...	2	1	4	1	...	...	2	...	1	1	184·7	26·4	63·2	20·2	...	...	31·2	...	47·9	65·3
Tipperah ...	Comillah ...	...	5	3	...	.	...	43·7	21·1	...	...	3	...	1	...	...	1	1	2	...	...	525·3	...	31·9	...	...	18·8	26·1	79·1	...	...
Patna	Patna City ..	...	27	7	...	...	...	11·8	8·9	...	...	7	1	1	2	3	4	3	2	5	6	84·5	3·6	3·1	7·2	14·0	7·2	6·7	5·5	18·4	22·6
Gya ...	Gya ...	...	75	17	...	...	...	65·0	55·0	...	...	21	13	3	1	3	8	7	5	8	23	610·1	106·4	23·3	7·7	29·8	28·3	29·6	26·6	63·3	232·4
Shahabad ...	Arrah	...	18	3	...	...	..	30·2	8·4	..	...	3	2	...	2	1	1	2	1	1	1	121·1	23·5	...	23·5	16·2	6·6	16·2	11·1	16·8	126·2
Mozufferpore ...	Mozufferpore ..	1	14	4	..	.	223·2	24·2	16·7	...	..	7	1	2	...	...	...	3	...	3	3	381·2	12·9	23·1	...	...	...	22·4	...	48·0	64·1
Durbhanga ...	Durbhanga ...	...	25	8	...	...	...	26·9	23·7	...	...	7	3	4	3	...	2	6	2	2	4	233·8	20·5	26·6	28·1	...	7·8	28·0	14·0	23·7	65·1
Saran	Chupra	...	19	8	..	...	...	24·9	34·9	...	...	4	4	2	1	1	4	1	2	4	4	147·4	40·3	17·5	10·4	15·0	22·6	6·7	17·1	50·3	61·1
Bhagulpore ...	Bhagulpore ..	...	21	5	...	...	...	27·5	15·1	...	...	3	...	2	2	3	9	2	1	4	...	130·7	...	17·7	16·5	37·3	42·8	11·2	8·2	46·8	...
Monghyr ..	Monghyr	..	27	4	...	...	...	31·4	16·5	...	...	7	...	2	...	1	6	4	4	1	6	245·1	...	14·7	...	13·8	39·2	23·3	31·6	13·1	87·0
Purneah ...	Purneah	...	2	2	...	...	...	11·3	18·4	...	...	...	...	...	...	...	1	2	...	1	...	...	...	...	...	...	31·7	36·5	...	55·5	...
Poori ...	Poori	...	33	...	...	...	...	74·2	...	...	...	4	2	...	...	2	1	3	4	7	12	686·5	57·9	...	...	55·9	9·8	38·5	62·6	163·2	345·5
	TOTAL ...	3	493	148	...	...	22·4	33·9	26·1	...	...	114	65	41	26	38	84	79	45	52	100	235·5	36·4	19·3	14·9	24·4	20·7	23·4	18·7	34·9	79·1

W. H. GREGG, *Dip. Publ. Health, Camb.*,

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing Quantities of Goods carried during the month of September 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. / MACHGONG ,, 4 ,,

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
16	1. Grain ...	18	72	90	4,542	90	4,542	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
2	4. Salt ...	.....	7	7	375	7	375	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
...	7. Building materials	.....	.....	.....	.....	.....	.....	
24	8. Miscellaneous ...	23	161	184	2,938	184	2,938	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
1 raft	11. Bamboos ...	.....	7,300 No.	7,300 No.	50	7,300 No.	50	
42 & 1 raft.	12. Total ...	41	240 & 7,300 No.	281 & 7,300 No.	7,905	281 & 7,300 No.	7,905	
36 & rafts.	13. Total of same month last year.	30	342	372	15,513	356	10,453	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	11	31	42
15. Total number of boats plying passenger No.	.....	.....	.....
15½. Do. empty boats, private ,,	31	8	39
16. Total registered tonnage, cargo Tons	41	240	281
16½. Do. empty Govt. No.	.....	1	1
17. Total registered tonnage, passenger Tons	.....	.....	.....
18. Ton-mileage ...	3,542	6,076	9,618
19. Estimated value of cargo Rs.	2,130	5,725	7,855
20. Number of passengers ...	.....	.....	.....
21. Rafts, bamboos No.	.....	7,300	7,300
22. Do., bullahs ,,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	50	50
24. Tollage on boats ,,	24-13-0	73-5-0	98-2-0
24½. Do. do. empty Govt. ,,	.....	3-2-0	3-2-0
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts ,,	.....	2-4-6	2-4-6
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·00
28. Total tollage on rafts per 100 cubic feet Rs	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	103 8 6
Total tollage of same month last year ...	138 14 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ..	49 9 6
2. Tollage per month ...	103 8 6
3. Total ...	153 2 0
4. Amount credited in the accounts of the month ...	147 8 0
5. Balance due at the end of the month ...	5 10 0

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
163	1. Grain ...	231	2,425	2,656	2,01,390	2,656	2,01,390	
2	2. Cotton ...	10	....	10	2,800	10	2,800	
38	3. Oilseeds ...	... ..	873	873	1,19,600	873	1,19,600	
12	4. Salt ...	19	18	37	4,000	37	4,000	
1	5. Piece-goods ...	26	.....	26	70,000	26	70,000	
2	6. Metal ...	20	...	20	1,500	20	1,500	
34	7. Building materials	15	420	435	11,100	406	11,060	
90	8. Miscellaneous ...	1,244	112	1,356	1,26,680	1,356	1,26,680	
14	9. Fuel ...	53	16	69	430	69	430	
4 rafts	10. Timber ...	.....	144 c. ft.	144 c. ft.	70	144 c. ft.	70	
1 raft	11. Bamboos ...	.....	25 „	25 „	10	25 „	10	
356 & 5 rafts.	12. Total ...	1,618	3,864 & 169 c ft.	5,482 & 169 c ft.	5,37,580	5,453 & 169 c. ft.	5,37,540	
196 & 2 rafts.	13. Total of same month last year.	895	1,081 & 375 c. ft.	1,976 & 375 c. ft.	1,19,780	1,940 & 375 c ft.	1,19,610	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	149	207	356
15. Total number of boats plying passenger No.	48	52	100
15½. Ditto empty boats „	209	116	325
16. Total registered tonnage, cargo, private Tons	3,149	6,401	9,550
16½. Ditto Government ditto „	... ..	43	43
17. Total registered tonnage, passenger Tons	2,310	2,416	4,726
17½. Ditto empty boats „	2,710	713	3,423
18. Ton-mileage ...	341,931	345,985	687,916
19. Estimated value of cargo Rs.	2,02,920	3,34,580	5,37,500
20. Number of passengers ...	1,438	1,508	2,946
21. Rafts, bamboos C. ft.	.....	25	25
22. Do., timbers „	... ..	144	144
23. Estimated value of rafts Rs.	.....	80	80
24. Tollage on boats „	2,891-7-2	4,162-7-4	7,053-14-6
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	5-9-3	5-9-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	3 4-9

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	7,059	7	9
Total tollage of same month last year ..	3,544	6	7

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	7,613	9	6
2. Tollage per month ...	7,059	7	9
3. Total ...	14,673	1	3
4. Amount credited in the accounts of the month ...	7,720	14	5
5. Balance due at the end of the month ...	6,952	2	10

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
	Quantity—Tons.			Value.	Quantity.	Value.	
	Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1. Grain ...	339	7	346	18,450	346	18,450	
2. Cotton ...	3	40	43	11,900	43	11,900	
3. Oilseeds .	158	2	160	12,850	160	12,850	
4. Salt ...	.....	190	190	15,450	190	15,450	
5. Piece-goods ..	.....	10	10	5,600	10	5,600	
6. Metal ...	2	.....	2	600	2	600	
7. Building materials	15	11	26	180	26	180	
8. Miscellaneous ...	66	91	157	14,370	157	14,370	
9. Fuel ...	18	.....	18	50	18	50	
10. Timber ...	.....	.....	.....	.....	.....	.....	
11. Bamboos ...	.....	.....	.....	.....	.....	.....	
12. Total ...	601	351	952	79,450	952	79,450	
13. Total of same month last year ...	660	287	947	45,870	876	45,770	

	Up.	Down	Total.
number of boats ply- cargo No.	142	94	236
number of boats ply- passenger No.	23	24	47
empty boats ,,	38	86	124
registered tonnage, go, private Tons	1,397	736	2,133
) Govt. stores ,,	.....	.....	.....
registered tonnage, senger Tons	343	391	734
empty. boats ,,	157	455	612
nileage ...	57,693	37,007	94,700
ated value of cargo Rs	35,230	44,220	79,450
per of passengers ...	318	399	717
, bamboos C. ft.	.....	.....	.....
bullahs ,,	.....	.....	.....
ated value of rafts Rs.	.....	.....	.....
ge on boats ,,	563-0-3	425-1-9	988-2-0
ounded tollage on ats Rs.	.....	.....	.....
ge on rafts ,,	.....	.....	.....
. tollage on boats per n-mile Rs.	.....	.....	0-0-2·0
l tollage on rafts per 00 cubic feet Rs.	.....	.....	.....

	Rs.	A.	P.
Total tollage of month— 24 + 25 + 26 ...	988	2	0
Total tollage of same month last year	575	4	6

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	413	5	9
2. Tollage per month ...	988	2	0
3. Total ...	1,401	7	9
4. Amount credited in the accounts of the month	1,089	15	9
5. Balance due at the end of the month ...	311	8	0

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.
19	1. Grain ...	27	25	52	2,863	52	2,86
2	2. Cotton ...	.....	4	4	440	8	44
4	3. Oilseeds ..	4	11	15	1,985	15	1,98
...	4. Salt ...	.....	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
1	7. Building materials	.....	2	2	10	.....	.....
23	8. Miscellaneous ...	5	51	56	5,651	56	5,65
2	9. Fuel ...	.....	4	4	200	4	20
...	10. Timber ...	.....	.....	.....	.....	.....	.....
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
51	12. Total ...	36	97	133	11,149	135	11,13
121 & 4 rafts.	13. Total of same month last year.	70	221½ & 108 c. ft.	291½ & 108 c. ft.	15,329	145½ & 108 c. ft.	15,04

	Up.	Down.	Total.
14. Total number of boats plying cargo ... No.	19	32	51
15. Total number of boats plying passonger No.	19	22	41
15½. Ditto empty „	27	17	44
16. Total registered tonnage, cargo Tons	69	192	261
16½. Ditto Govt. „	.....	4	4
17. Total registered tonnage, passenger Tons	421	471	892
17½. Ditto empty boats „	77	35	112
18. Ton-mileage	6,784	8,364	15,148
19. Estimated value of cargo Rs.	2,306	8,843	11,149
20. Number of passengers ...	261	262	523
21. Rafts, bamboos C. ft	.....	.....	.....
22. Do., bullahs „	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats „	92-2-0	121-5-9	213-7-9
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·70
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	R
Total tollage of month—24 + 25 + 26 ...	21
Total tollage of same month last year ...	19

Memorandum of Tollage.

	R
1. Balance not recovered on the 1st of the month ...	
2. Tollage per month ...	21
3. Total ...	22
4. Amount credited in the accounts of the month ...	22
5. Balance due at the end of the month ...	

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
8	1. Grain ...	14	.....	14	874	14	874	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
1	4. Salt ...	.....	4	4	488	4	488	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
...	6. Metal ...	.....	.....	.....	.....	.....	.....	
2	7. Building materials	.....	4	4	139	.....	.....	
4	8. Miscellaneous ...	.....	26	26	3,950	26	3,950	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
15	12. Total ...	14	34	48	5,451	44	5,312	
68 & 1 raft.	13. Total of same month last year ...	159	61½ & 90 c. ft.	220½ & 90 c. ft.	14,339	187½ & 90 c. ft.	13,950	

	Up.	Down.	Total.
4. Total number of boats plying cargo No.	8	7	15
5. Total number of boats plying passenger No.	17	19	36
5½. Ditto empty ,,	9	9	18
6. Total registered tonnage, cargo Tons	33	47	80
6½. Ditto Govt. ditto ,,	.....	13	13
7. Total registered tonnage, passenger Tons	403	444	847
7½. Ditto empty boats ,,	33	20	53
8. Ton-mileage ...	8,931	9,956	18,887
9. Estimated value of cargo Rs.	874	4,577	5,451
10. Number of passengers ...	214	143	357
11. Rafts, bamboos No.	.....	.....	.....
12. Do., bullahs C. ft	.....	.....	.....
13. Estimated value of rafts Rs.	.....	.....	.....
14. Tollage on boats ,,	78-2-0	89-12-6	167-14-6
15. Compounded tollage on boats Rs.	.....	.....	.....
16. Tollage on rafts ,,	.....	.....	.....
17. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1·70
18. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	167 14 6
Total tollage of same month last year	102 10 0

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	.....
2. Tollage per month ...	167 14 6
3. Total ...	167 14 6
4. Amount credited in the accounts of the month ...	167 14 6
5. Balance due at the end of the month ...	.....

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
36	1. Grain ...	... ..	35	35	1,918	35	1,918	
1	2. Cotton ...	.....	½	½	65	½	65	
1	3. Oilseeds ...	.....	½	½	40	½	40	
...	4. Salt ...	.....	.....	.....	.....	.....	.....	
...	5. Piece-goods ...	.....	.. ...	.....	.....	.....	.....	
...	6. Metal ...	.....	... ..	.....	.....	.....	.....	
1	7. Building materials	.....	7	7	15	7	15	
8	8. Miscellaneous ...	1	7	8	888	8	888	
1	9. Fuel ...	.....	5	5	40	5	40	
30 rafts.	10. Timber ...	.....	6,894 c. ft.	6,894 c. ft.	841	6,894 c. ft.	841	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
48 & 30 rafts.	12. Total ...	1	55& 6,894 c. ft.	56& 6,894 c. ft.	3,807	56& 6,894 c.ft.	3,807	
21 & 5 rafts.	13. Total of same month last year.	....	12& 1,980 c. ft.	12& 1,980 c. ft.	1,471	12& 1,980 c. ft.	1,471	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	4	44	48
15. Total number of boats plying passenger No.	2	3	5
15½. Ditto empty „	20	1	21
16. Total registered tonnage, cargo Tons	8	95	103
16½. Ditto Govt. „	.....	.....	.....
17. Total registered tonnage, passenger Tons	15	25	40
17½. Ditto empty „	36	1	37
18. Ton-mileage ...	354	732	1,086
19. Estimated value of cargo Rs.	228	2,738	2,966
20. Number of passengers ...	6	18	24
21. Rafts, bamboos C. ft.	.....	.....	.....
22. Do., bullahs „	.....	6,894	6,894
23. Estimated value of rafts Rs.	.....	841	841
24. Tollage on boats „	6-0-9	12-11-0	18-11-9
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts „	.....	16-10-3	16-10-3
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·30
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-10

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	35	6	
Total tollage of same month last year ...	8	15	

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	8	7	
2. Tollage per month ...	35	6	
3. Total ...	43	13	
4. Amount credited in the accounts of the month ...	43	13	
5. Balance due at the end of the month ...	.....		

SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
	Quantity—Tons.			Value.	Quantity.	Value.	
	Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1. Grain ...	4,072	303	4,375	2,74,988	4,375	2,74,988	
2. Cotton ...	.....	3	3	1,302	3	1,302	
3. Oilseeds ...	133	123	256	27,406	256	27,406	
4. Salt ...	.....	1,301	1,301	1,31,947	1,301	1,31,947	
5. Piece-goods ...	47	55	102	2,62,400	102	2,62,400	
6. Metal	17	43	60	40,942	60	40,942	
7. Building materials	162	77	239	2,225	239	2,225	
8. Miscellaneous ...	868	759	1,627	4,62,926	1,627	4,62,926	
9. Fuel ...	158	81	239	2,150	239	2,150	
10. Timber ...	12,635 c. ft.	24 c. ft.	12,659 c. ft.	10,953	12,659 c. ft.	10,953	
11. Bamboos ...	2,750 „	.....	2,750 „	345	2,750 „	345	
12. Total ...	5,457 & 15,385 c. ft.	2,745 & 24 c. ft.	8,202 & 15,409 c. ft	12,17,584	8,202 & 15,409 c.ft.	12,17,584	
13. Total of same month last year.	7,412 & 13,839 c. ft.	4,141	11,553 & 13,839 c. ft.	13,33,341	11,553 & 13,839 c.ft.	13,33,344	

	Up.	Down.	Total.
Total number of boats plying cargo No.	872	535	1,407
Total number of boats plying passenger No.	612	717	1,329
Ditto empty „	409	479	888
Total registered tonnage, cargo Tons	12,377	6,898	19,275
Total registered tonnage, passenger Tons	3,868	3,538	7,406
Ditto empty „	1,737	2,212	3,949
Ton-mileage ...	308,100	202,389	510,489
Estimated value of cargo Rs.	5,71,486	6,34,800	12,06,286
Number of passengers ...	6,745	9,001	15,746
Rafts, bamboos C. ft.	2,750	.....	2,750
Do., bullahs „	12,635	24	12,659
Estimated value of rafts Rs.	11,207	91	11,298
Tollage on boats „	4,867-15-3	3,022-15-6	7,890-14-9
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts „	290-7-3	0-8-0	290-15-3
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·9
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-14-3

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	8,181	14	0
Total tollage of same month last year ...	10,571	10	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month	4,991	6	1
2. Tollage per month ...	8,181	14	0
3. Total ...	13,173	4	1
4. Amount paid into treasury during the month ...	6,097	1	0
5. Balance due at the end of the month ...	7,076	3	1

HIDGELLEE TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.
278	1. Grain ...	2,066	.....	2,066	97,375	2,066	97,375
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
5	3. Oilseeds ...	20	3	23	2,740	23	2,740
40	4. Salt ...	.....	403	403	44,990	403	44,990
6	5. Piece-goods ...	.....	28	28	19,625	28	19,625
5	6. Metal ...	32	1	33	4,650	33	4,650
4	7. Building materials	.....	52	52	920	52	920
560	8. Miscellaneous ...	629	494	1,123	84,842	1,123	84,842
3	9. Fuel ...	.....	21	21	150	21	150
3 rafts	10. Timber ...	.....	214 c. ft.	214 c. ft.	213	214 c. ft.	213
1 raft	11. Bamboos ...	.....	25 „	25 „	1	25 „	1
901 & 4 rafts.	12. Total ...	2,747	1,002 & 239 c. ft.	3,749 & 239 c. ft.	2,55,506	3,749 & 239 c. ft.	2,55,506
1,084 & 3 rafts.	13. Total of same month last year.	2,975 & 203 c. ft.	1,142 & 36 c. ft.	4,117 & 239 c. ft.	2,57,640	4,089 & 239 c. ft.	2,57,240

		Up.	Down.	Total.
14.	Total number of boats plying cargo No.	447	454	901
15.	Total number of boats plying passenger No.	48	45	93
16.	Total registered tonnage, cargo Tons	6,181	3,882	10,063
17.	Total registered tonnage, passenger Tons	270	296	566
18.	Ton-mileage	105,373	75,365	1,80,738
19.	Estimated value of cargo Rs.	1,17,156	1,38,136	2,55,292
20.	Number of passengers ...	497	491	988
21.	Rafts, bamboos C. ft.	.....	25	25
22.	Do., bullahs „	.....	214	214
23.	Estimated value of rafts Rs.	.....	214	214
24.	Tollage on boats „	1,843-11-9	1,306-12-6	3,150-8-3
25.	Compounded tollage on boats Rs.	.....	12-5-6	12-5-6
26.	Tollage on rafts „	.....	1-5-0	1-5-0
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·3
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-8-9

	Rs. A
Total tollage of month—24 + 25 + 26 ...	3,164 2
Total tollage of same month last year .	3,509 14

Memorandum of Tollage.

		Rs. A
1.	Balance not recovered on the 1st of the month ...	2,358 1
2.	Tollage per month ...	3,164
3.	Total ...	5,523
4.	Amount paid into treasury during the month . .	4,393
5.	Balance due at the end of the month	1,129 1

SONE CIRCLE.

PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 86¼ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	PRIVATE. Quantity. Tons.	Value. Rupees.	REMARKS.
39	1. Grain ...	.....	599	599	48,136	599	48,136	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
3	3. Oilseeds ...	3	61	64	8,479	64	8,479	
...	4. Salt ...	71	.....	71	7,952	71	7,952	
15	5. Piece-goods ...	89	11	100	21,515	100	21,515	
...	6. Metal ...	5	1	6	1,154	6	1,154	
13	7. Building materials	59	52	111	1,934	62	724	
31	8. Miscellaneous ...	181	150	331	63,451	331	63,451	
...	9. Fuel rafts	.....	10	10	20	10	20	
...	10. Timber ,,	.....	7	7	45	7	45	
...	11. Bamboos ,,	.....	9	9	200	9	200	
101	12. Total ...	408	900	1,308	1,52,886	1,259	1,51,676	
135	13. Total of same month last year ...	435	994	1,429	1,50,000	1,326	1,49,240	

		Up.	Down.	Total.
4. Total number of boats plying cargo	No.	36	65	101
5. Total number of boats plying passenger	No.	5	6	11
5½. Ditto of empty boats	,,	64	11	75
16. Total registered tonnage, cargo	Tons	592	1,274	1,866
17. Total registered tonnage, passenger	Tons	166	207	373
17½. Ditto empty boats	,,	274	52	326
18. Ton-mileage	...	55,890	80,672	136,562
19. Estimated value of cargo	Rs.	39,619	1,13,002	1,52,621
20. Number of passengers	...	255	392	647
21. Rafts, bamboos	C. ft.	.....	1,330	1,330
22. Do., bullahs	,,	.....	1,242	1,242
23. Estimated value of rafts	Rs.	.....	265	265
24. Tollage on boats	,,	406-10-3	718-7-0	1,125-1-3
25. Compounded tollage on boats	Rs.	75-0-0	75-0-0	150-0-0
26. Tollage on rafts	,,	.....	11-12-0	11-12-0
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-1·7
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	0-7-3

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,286 13 3
Total tollage of same month last year ...	1,723 0 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	173 10 0
2. Tollage per month ...	1,286 13 3
3. Total ...	1,460 7 3
4. Amount credited in the accounts of the month	1,370 1 6
5. Balance due at the end of the month ...	90 5 9

ARRAH CANAL SYSTEM.

LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
74	1. Grain ...	228	499	727	46,929	727	46,929	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....	
6	3. Oilseeds ...	.....	65	65	6,280	65	6,280	
27	4. Salt ...	306	.....	306	23,748	306	23,748	
...	5. Piece-goods ...	18	1	19	58,950	19	58,950	
...	6. Metal ...	2	5	7	2,085	7	2,085	
2	7. Building materials	4	4	8	1,310	2	280	
37	8. Miscellaneous ...	19	357	376	19,678	308	19,437	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....	
...	10. Timber ...	.....	.....	.....	.....	.....	.....	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
146	12. Total ...	577	931	1,508	1,58,980	1,434	1,57,709	
235	13. Total of same month last year.	578	1,739	2,317	1,38,757	1,882	1,37,594	

	Up.	Down.	Total.
14. Total number of boats plying cargo No.	57	89	146
15. Total number of boats plying passenger No.	3	3	6
15½. Total number of empty boats No.	79	9	88
16. Total registered tonnage, cargo Tons	948	1,700	2,648
17. Total registered tonnage, passenger Tons	80	74	154
17½. Total registered tonnage, empty Tons	385	53	438
18. Ton-mileage ...	58,102	75,950	134,052
19. Estimated value of cargo Rs.	98,920	60,060	1,58,980
20. Number of passengers ...	902	945	1,847
21. Rafts, bamboos C.ft.	.....	.....	.....
22. Do., bullahs ,,	.....	.....	.....
23. Estimated value of rafts Rs.	.....	.....	.....
24. Tollage on boats ,,	285-5-6	690-5-6	975-11-0
25. Compounded tollage on boats Rs.	356-0-0	356-0-0	712-0-0
26. Tollage on rafts ,,	.....	.....	.....
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2·41
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24 + 25 + 26 ...	1,687 11 0
Total tollage of same month last year ...	1,673 14 6

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month	34 0 9
2. Tollage per month ...	1,687 11 0
3. Total ...	1,721 11
4. Amount credited in the accounts of the month	1,632 7 6
5. Balance due at the end of the month ...	89 4 3

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of days.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
59	1. Grain ...	250	556	806	42,447	806	42,447	
	2. Cotton ..	.....	.....	.....	.....	...	.....	
	3. Oilseeds ...	.....	.....	.....	.....	.....	.....	
1	4. Salt ...	8	.....	8	666	8	666	
1	5. Piece-goods ...	6	...	6	2,900	6	2,900	
2	6. Metal ...	24	.....	24	3,040	14	2,940	
6	7. Building materials	32	51	83	490	.....	...	
46	8. Miscellaneous ...	11	532	543	23,217	543	23,217	
4	9. Fuel ...	.....	87	87	762	87	762	
	10. Timber ...	.....	.....	.....	.....	.....	.....	
	11. Bamboos ...	.....	.....	.....	...	.....	.....	
119	12 Total ...	331	1,226	1,557	73,522	1,464	72,932	
53	13. Total of same month last year.	280	539	819	28,974	513	27,516	

	Up.	Down.	Total.
Total number of boats plying cargo No.	27	92	119
Total number of boats plying passenger No.	8	10	18
Ditto empty boats ,,	99	8	107
Total registered tonnage, cargo Tons	431	1,628	2,059
Total registered tonnage, passenger Tons	216	246	462
Ditto empty ,,	399	32	431
Ton-mileage ...	33,422	52,855	86,277
Estimated value of cargo Rs.	20,619	52,903	73,522
Number of passengers ...	580	705	1,285
Rafts, bamboos C. ft.	.....	.....	...
Do., bullahs ,,	.....	.....	.....
Estimated value of rafts Rs.	.....	... ...	... ..
Tollage on boats ,,	233-8-6	573-3-0	806 11-6
Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0
Tollage on rafts ,,	.....	.....	.....
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2 2
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.. ...

	Rs.	A.	P.
Total tollage of month—24 + 25 + 26 ...	1,020	11	6
Total tollage of same month last year ...	397	3	0

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	23	8	6
2. Tollage per month ...	1,020	11	6
3. Total ...	1,044	4	0
4. Amount credited in the accounts of the month ...	987	0	0
5. Balance due at the end of the month ...	57	4	0

ABSTRACT FOR THE MONTH OF SEPTEMBER 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

Canal.	Traffic, 1890-91.		Traffic, 1889-90.		Rema
	During the month.	To end of the month.	During the month.	To end of the month.	
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System ...	103 8 6	1,612 13 2	138 14 3	2,404 7 7	
Kendrapara Canal System	7,059 7 9	33,382 3 0	3,544 6 7	21,261 5 8	
High Level, Range I ...	988 2 0	4,851 11 9	575 4 6	3,398 12 8	
Ditto „ II ...	213 7 9	1,642 14 3	199 2 0	1,477 0 3	
Ditto „ III ...	167 14 6	1,213 5 3	102 10 0	736 15 9	
Jajepore Canal ...	35 6 0	135 9 10	8 15 0	44 0 8	
Total Orissa Circle ...	8,567 14 6	42,838 9 3	4,569 4 4	29,322 10 7	
South-Western Circle.					
Midnapore Canal ...	8,181 14 0	61,027 3 9	10,571 10 3	75,865 1 6	
Hidgellee Tidal Canal ...	3,164 2 9	17,918 1 9	3,509 14 3	27,987 7 9	
Total South-Western Circle	11,346 0 9	78,945 5 6	14,081 8 6	1,03,352 9 3	
Sone Circle.					
Patna Canal System ..	1,286 13 3	11,826 6 11	1,723 0 6	14,342 4 3	
Arrah ditto ...	1,687 11 0	10,574 8 6	1,673 14 6	10,018 3 5	
Buxar ditto ...	1,020 11 6	4,953 1 9	397 3 0	3,672 14 5	
Total Sone Circle ...	3,995 3 9	27,354 1 2	3,794 2 0	28,033 6 1	
Grand Total ...	23,909 3 0	1,49,137 15 11	22,444 14 10	1,60,708 9 11	

GOVERNMENT TRANSPORT SERVICE.

Canal.	Traffic, 1890-91.						Traffic, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the mont		
	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs.
High Level	896	317	865 1 5	4,844	4,357	5,216 11 3	542	295	662 11 7	3,105	3,978	3,42
Total Orissa Circle ...	896	317	865 1 5	4,844	4,357	5,216 11 3	542	295	662 11 7	3,105	3,978	3,42

TOTAL NAVIGATION RECEIPTS.

Canal	Earnings, 1890-91.		Earnings, 1889-90.		Remai
	During the month.	To end of the month.	During the month.	To end of the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Orissa Canals ...	9,432 15 11	48,055 4 6	5,231 15 11	32,743 5 5	
Midnapore Canal ...	8,181 14 0	61,027 3 9	10,571 10 3	75,365 1 6	
Hidgellee Tidal Canal ...	3,164 2 9	17,918 1 9	3,509 14 3	27,987 7 9	
Sone Canals ...	3,995 3 9	27,354 1 2	3,794 2 0	28,033 6 1	
Total ...	24,774 4 5	1,54,354 11 2	23,107 10 5	1,64,129 4 9	

Calcutta,
The 23rd December 1890.

G. A. G. Shawe,
Under-Secy. to the Govt. of Beng

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of September 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								GRAND TOTAL.	Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual leases.							During month.	Up to end of month.	During month.	Up to end of month.	
										Kharif.	Rabi.	Sugarcane.	Bhadoi.	Hot-weather.	Total.						
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.	
ORISSA	Cuttack	Taldunda, 1st reach	1,342	526	95	10,739	9,501	.....	10,296	.....	423	13	.....	.....	436	10,732	22·25	58·43	5·47	51·74	
		Ditto, 2nd	566	153													10·32	51·62	3·53	47·60	
		Machgong	776	234	186	29,741	27,329	.....	29,599	.....	128	14	.....	.....	142	29,741	20·30	56·35	3·05	51·38	
		Kendrapara	1,067	942·83	779·82	51,253	47,428	.....	51,720	.....	3,318	35	.....	.....	3,353	55,073	17·09	40·03	2·73	48·86	
		Gobri	372·82	93·68	66·93	4,709	1,846	.....	2,291	.....	208	1	.....	.....	209	2,500	16·65	44·54	5·79	52·12	
		Do. extension	848	97·01	69·05	3,578	1,840	.....	2,147	.....	5	.....	.....	.....	5	2,152	No gauge fixed.				
		Patamoondi	885	333·65	236 64	12,459	7,359	.....	10,684	.....	60	.....	.....	.....	60	10,724	.....	.....	.....	.....	
		High Level, Range I	808	277·64	209·72	20,391	17,499	.....	25,259	.....	91	5	.....	.....	96	25,355	11·10	39 55	9·53	53·77	
		Ditto, ditto II	99	93	2,526	2,359	.....	2,500	.....	29	.....	.....	.....	.....	29	2,529	.....	.....	.....	.....	
		Ditto, ditto III	727·16	457	454	36,237*	35,749	.....	39,384	.....	141	.....	.....	.....	141	39,725	9·78	36·78	5·59	36 35	
	Balasore	Total	.....	.....	.....	171,633	150,908	.....	174,060	.....	4,262	209	.....	.....	4,471	176,531	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	154,090	42	5,895	156	.....	.....	6,093	160,183	.....	.....	.....	.....	
SOUTH-WESTERN.	Midnapore	Midnapore	1,411	531	488	73,858	60,775	.....	71,897	.....	.....	.....	.....	.....	.....	71,897	9·65	44·49	6·34	40 61	28 days discharging.
	Howrah	Panchkoorah	522	57	43	4,615	3,009	.....	4,949	43	.....	.....	.....	.....	43	4,992	13·47	44·37	7·72	45·09	19 days discharging.
		Tidal reaches, Ranges I-II	.....	.....	.....	363	357	.....	386	.....	.....	.....	.....	.....	.....	386	.....	.....	.....	.....	
		Total	.....	.....	.....	78,836	64,141	.....	77,232	43	.....	.....	.....	.....	43	77,275	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	63,092	.....	.....	.....	.....	.....	.....	63,092	.....	.....	.....	.....	
SONE	Shahabad	Western Main	4,342	2,473	103	10,639	13,125	11,631	.....	1,783	.....	234	4	309	2,270	13,901	9·09	43·21	8·17	44·07	
		Buxar	1,226	692	315	43,823	50,331	81,665	.....	2,785	.....	1,109	71	2,566	6,531	58,197					
		Arrah	2,000	1,568	1,400	110,752	112,078	92,781	.....	16,580	.....	2,217	113	5,669	24,679	117,460	8·21	50·68	5·44	39·39	
	Patna and Gya.	Eastern Main	1,466	1,103	949	1,444	1,133	1,484	.....	71	.....	8	1	.....	80	1,564	6·15	57·34	10·21	45·67	
		Patna				49,895	45,951	40,446	.....	14,717	.....	435	203	.....	13,355	55,801					
		Total	.....	.....	.....	216,555	222,648	198,008	.....	35,976	.....	4,003	392	8,544	48,915	246,923	.....	.....	.....	.....	
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	175,332	.....	59,691	.....	4,638	1,169	11,944	77,642	252,974	.....	.....	.....	.....	
		Grand Total	.....	.....	.....	457,024	437,697	199,008	251,292	36,019	4,263	4,212	392	8,544	53,429	502,729	.....	.....	.....	.....	
		Grand Total of the corresponding period of last year	.....	.....	.....	.....	.....	175,332	217,182	59,933	5,895	4,794	1,169	11,944	83,735	476,249	.....	.....	.....	.....	

* This area has been reduced according to the revised permits received from the Revenue Department.

CALCUTTA,
The 22nd December 1890.

G. A. G. SHAWE,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of September 1890.

Date.	River Ganges.																River Bhagiruthee.		River Jellinghee.		River Brahmapootra.	
	Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beauleah.		Goalundo.		Berhampore.		Sarupgunge.		Gowhatty.	
Miles.	86		134	48	90		177	87	287	110	381	94	471	90	691	120						
Distance.	From Allahabad ...		From Allahabad ...	From Mirzapur ...	From Benares		From Benares	From Buxar ...	From Benares	From Dinapur	From Benares	From Monghyr	From Benares	From Sahebgunge ...	From Benares	From Rampore Beauleah ...						
	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
1st ...	22·08	228·30	20·50	217·30	21·50	190·55	27·50	161·73	23·67	125·52	24·42	92·42	25·81	67·81	22·00	30·94	36·09	63·82	30·29	34·39	27·80	176·56
2nd ...	20·17	226·39	19·50	215·30	19·83	188·88	27·10	161·33	24·00	124·85	23·92	91·92	25·38	67·38	22·09	31·02	29·83	63·57	32·15	34·55	28·00	176·76
3rd ...	19·42	225·64	17·00	213·80	15·83	184·88	26·80	161·03	22·67	124·52	23·10	91·59	25·00	67·01	22·25	31·19	29·54	63·28	30·17	34·47	28·21	176·96
4th ...	19·42	225·64	16·50	213·30	17·50	186·55	26·15	160·34	22·17	124·02	22·92	90·92	24·67	66·67	22·25	31·19	29·25	63·99	29·96	34·21	24·50	177·26
5th ...	19·25	225·47	16·25	213·05	16·83	183·88	25·25	159·43	21·17	123·02	22·50	90·50	24·31	66·31	22·25	31·19	28·58	62·62	29·79	34·09	28·80	177·56
6th ...	18·67	224·89	16·00	212·80	16·42	185·47	24·40	158·43	19·67	121·52	21·75	89·75	23·92	65·92	22·33	31·27	28·54	62·58	29·45	33·72	28·60	177·36
7th ...	18·25	224·47	15·91	212·71	16·00	185·05	23·60	157·83	18·75	120·60	20·58	88·58	23·8	65·8	22·33	31·27	28·25	61·99	29·06	33·38	28·30	177·06
8th ...	17·92	224·14	15·84	212·63	15·25	184·30	23·00	157·23	18·00	119·85	20·00	88·00	22·50	64·51	22·08	31·02	27·67	61·41	28·67	32·97	28·20	176·96
9th ...	17·50	223·72	15·66	212·46	14·50	183·55	22·25	156·48	17·33	119·18	19·25	87·25	21·63	63·63	21·92	30·86	27·00	60·74	28·33	32·63	27·40	176·16
10th ...	16·75	223·97	15·58	212·30	13·50	182·55	21·60	155·81	17·00	118·85	18·58	86·58	21·01	63·00	21·67	30·61	26·17	59·91	27·92	32·22	27·20	175·96
11th ...	16·17	222·39	14·25	211·05	13·17	182·22	21·10	155·33	16·42	118·27	18·00	86·00	20·33	62·33	21·33	30·27	25·25	58·99	27·42	31·72	26·70	175·46
12th ...	15·67	221·89	13·66	210·46	12·42	181·47	20·85	155·08	16·08	117·93	17·42	85·42	19·67	61·67	21·01	29·94	24·25	57·99	27·00	31·30	26·40	175·16
13th ...	15·00	221·22	13·00	209·80	12·08	181·13	20·30	154·53	15·83	117·68	17·00	85·00	19·09	61·03	20·75	29·69	23·33	57·07	26·46	30·76	26·09	174·76
14th ...	15·00	221·22	13·00	209·80	11·75	180·80	19·90	154·13	15·42	117·27	16·58	84·58	18·50	60·50	20·58	29·52	22·50	56·24	25·96	30·26	25·80	174·26
15th ...	15·83	222·05	13·00	209·80	12·17	181·22	19·90	154·13	14·92	116·77	16·17	84·17	18·08	60·08	20·42	29·36	21·75	54·49	25·46	29·76	25·00	173·76
16th ...	17·30	223·72	15·66	212·46	14·25	183·30	21·00	155·23	14·92	116·77	15·67	83·67	17·71	59·71	20·17	29·11	21·00	54·74	24·58	28·88	24·50	173·26
17th ...	20·33	226·55	18·60	2 4·80	16·50	185·55	23·50	156·73	15·58	117·43	15·83	83·83	17·46	59·46	19·67	28·61	20·42	54·16	23·83	28·13	23·70	172·44
18th ...	19·83	226·05	19·00	215·80	18·50	187·55	24·50	158·73	16·75	119·60	16·33	84·33	17·63	59·63	19·33	28·27	19·34	54·57	21·00	27·31	23·40	172·16
19th ...	17·67	223·89	17·50	214·30	16·83	187·88	26·25	160·48	18·17	120·02	17·25	85·25	18·21	60·21	19·00	27·94	19·17	52·91	22·50	26·80	22·70	171·44
20th ...	15·67	221·89	17·00	213·80	17·75	186·80	26·50	160·73	19·50	121·35	18·25	86·25	19·04	61·04	18·83	27·77	20·00	53·74	21·83	26·13	22·40	171·16
21st ...	15·67	221·89	16·00	212·80	16·58	185·63	26·30	160·53	20·00	121·85	19·25	87·25	19·71	61·71	18·75	27·69	21·25	54·99	21·21	25·55	22·30	171·26
22nd ...	16·67	222·89	15·00	211·80	16·08	185·13	26·90	161·13	19·92	121·77	19·42	87·42	20·08	62·04	18·75	27·69	22·50	56·24	21·17	25·47	21·30	171·06
23rd ...	20·00	226·21	16·00	212·80	16·50	185·55	27·10	161·33	20·25	122·10	19·42	87·42	20·42	62·42	18·92	27·86	22·75	56·49	21·17	25·47	21·60	170·36
24th ...	21·00	227·22	19·00	215·80	18·33	187·38	27·20	161·43	20·83	122·68	19·75	87·75	20·65	62·65	18·92	27·86	23·08	56·82	21·50	25·80	21·30	170·06
25th ...	21·00	227·22	19·50	216·30	19·75	188·80	27·20	161·43	20·83	122·68	19·92	87·92	21·71	62·71	18·75	27·69	23·42	57·16	22·00	26·30	21·00	169·76
26th ...	19·33	225·55	19·50	216·30	19·75	188·80	26·80	161·03	20·83	122·68	20·08	88·08	20·75	63·75	18·58	27·52	23·67	57·41	22·58	26·88	20·60	169·36
27th ...	24·75	230·97	22·00	218·80	20·00	189·05	26·50	160·73	20·00	121·85	20·08	88·08	20·83	63·83	18·50	27·44	23·92	57·66	23·17	27·47	20·30	169·06
28th ...	28·17	234·39	26·00	222·80	23·25	192·30	27·10	161·43	20·50	122·35	19·83	87·83	21·00	63·00	18·50	27·44	24·42	58·16	23·75	28·05	19·20	167·96
29th ...	30·00	236·23	27·66	224·46	24·83	194·38	28·70	162·93	20·83	122·68	20·25	88·25	21·33	63·33	18·75	27·69	25·08	58·82	24·50	28·80	18·30	167·06
30th ...	27·00	233·72	27·00	223·80	25·33	194·38	28·20	162·43	22·00	123·85	20·75	88·75	21·92	63·92	18·75	27·69	25·58	59·33	25·67	29·97	18·70	165·46

CALCUTTA,
The 23rd December 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 24, 1890.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of Boats or Rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
416	1. Grain ...	5,993	11	6,004	6,70,664	6,004	6,70,664	* For details, see next page.
....	2. Cotton ...	.....	.....	.....	.....	.....	.....	
24	3. Oilseeds ...	432	.....	432	47,600	432	47,600	
345	4. Salt ...	639	6,033	6,672	6,18,858	6,672	6,18,858	
....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
6	6. Metal ...	.....	40	40	4,950	40	4,950	
105	7. Building materials	3,055	105	3,160	54,159	3,160	54,159	
,414	8. Miscellaneous* ...	36,766	2,288	39,054	32,41,404	39,054	32,41,404	
549	9. Fuel ...	13,773	1,927	15,700	1,13,553	15,700	1,13,553	
....	10. Timber ...	.....	.....	.....	.....	.....	.....	
....	11. Bamboos ...	.....	.....	.....	.....	.....	.....	
,859	12. Total ...	60,658	10,404	71,062	47,51,188	71,062	47,51,188	
738 afts.	13. Total of same month last year.	39,677 & 999 c. ft.	8,581	48,258 999 c. ft.	42,45,641	48,258 999 c. ft.	42,45,641	

	Up.	Down.	Total.
Total number of boats plying cargo No.	4,254	605	4,859
Empty ...	1,931	627	2,558
Total number of boats plying passenger No.	601	14	615
Total registered tonnage, cargo Tons	141,626	26,582	168,208
Total registered tonnage, passenger Tons	1,028	85	1,113
Ton-mileage ...	1,255,665	265,820	1,521,485
Estimated value of cargo Rs.	38,62,540	8,88,648	47,51,188
Number of passengers No.	2,238	69	2,307
Rafts, bamboos C. ft.	.....	.....	.....
Do., bullahs ,,	.....	.....	.....
Estimated value of rafts Rs.	.....	.....	.....
Tollage on boats ,,	30,978-1-9	6,533-11-6	37,511-13-3
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts ,,	.....	.....	.....
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4·73
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

	Rs. A. P.
Total tollage of month—24+25+26 ...	37,511 13 3
Total tollage of same month last year ...	29,313 4 3

Memorandum of Tollage.

	Rs. A. P.
1. Balance not recovered on the 1st of the month ...	971 2 6
2. Tollage per month ...	37,511 13 3
3. Total	38,482 15 9
4. Amount paid into treasury during the month ...	37,232 9 3
5. Balance due at the end of the month ...	1,250 6 6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
1,366	(a) Jute ...	31,085	7	31,092	21,76,400	31,092	21,76,400	
36	(b) Jaggery ...	335	.....	335	39,844	335	39,844	
9	(c) Sugar ...	55	.....	55	13,950	55	13,950	
5	(d) Tobacco ...	25	14	39	7,700	39	7,700	
928	(e) Fish ...	151	2	153	42,790	153	42,790	
27	(f) Hides ...	69	.....	69	15,550	69	15,550	
81	(g) Poultry ...	20	.....	20	12,852	20	12,852	
49	(h) Hay and straw ...	369	.....	369	7,746	369	7,746	
136	(j) Oil ...	.....	1,853	1,853	2,59,500	1,853	2,59,500	
45	(k) Earthenware ...	80	1	81	1,133	81	1,133	
732	(m) Other miscellaneous ...	4,577	411	4,988	6,63,939	4,988	6,63,939	
3,414	Total Miscellaneous...	36,766	2,288	39,054	32,41,404	39,054	32,41,404	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of October 1890.

Number of boats or rafts.	Description.	Total Government and Private. Quantity—Tons. Up.	Down.	Total.	Value. Rupees.	Private. Quantity. Tons.	Value. Rupees.	Remarks.
1,565	1. Grain ...	4,519	.....	4,519	4,47,240	4,519	4,47,240	* For details, see next page.
6	2. Cotton ...	45	.....	45	22,860	45	22,860	
6	3. Oilseeds ...	124	.....	124	12,162	124	12,162	
68	4. Salt ...	646	292	938	87,019	938	87,019	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....	
.....	6. Metal ...	.....	.....	.....	... ..	... ..	.....	
751	7. Building materials	8,483	.....	8,483	30,882	8,483	30,882	
1,351	8. Miscellaneous* ...	6,527	67	6,594	7,11,750	6,594	7,11,750	
216	9. Fuel ...	2,674	.....	2,674	20,190	2,674	20,190	
} rafts.	10. Timber ...	25,313 c. ft.	675 c. ft.	25,988 c. ft.	64,970	25,988 c. ft.	64,970	
} „	11. Bamboos ...	78 „	.....	78 „	10	78 „	10	
3,963 & } rafts.	12. Total ...	{ 23,018 & 25,391 c. ft	359 & 675 c. ft.	{ 23,377 & 26,066 c. ft. }	13,97,083	{ 23,377 & 26,066 c. ft. }	13,97,083	
3,179 & } rafts.	13. Total of same month last year ...	{ 15,571 & 10,499 c. ft.	261 & 624 c. ft.	{ 15,832 & 11,123 c. ft. }	10,56,443	{ 15,832 & 11,123 c. ft }	10,56,443	

	Up.	Down.	Total.
4. Total number of boats plying cargo ... No.	3,914	49	3,963
4a. Empty „	1,163	302	1,465
5. Total number of boats plying passenger ... No.	411	4	415
6. Total registered tonnage, cargo ... Tons	58,203	2,463	60,666
7. Total registered tonnage, passenger ... Tons	846	14	860
18. Ton-mileage	462,593	39,408	502,001
19. Estimated value of cargo Rs.	12,96,922	35,181	13,32,103
20. Number of passengers No.	9,149	19	9,168
21. Rafts, bamboos C. ft.	78	.....	78
22. Do., bullahs „	25,313	675	25,988
23. Estimated value of rafts Rs.	63,243	1,737	64,980
24. Tollage on boats „	8,577-2-3	607-2-6	9,184-4-9
25. Compounded tollage on boats ... Rs.	.....	.....	.....
26. Tollage on rafts „	46-1-0	2-4-0	48-5-0
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3·51
28. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-2-11

	Rs.	A.	P.
Total tollage of month—24+25+26 ...	9,232	9	9
Total tollage of same month last year ...	7,349	14	3

Memorandum of Tollage.

	Rs.	A.	P.
1. Balance not recovered on the 1st of the month ...	366	15	0
2. Tollage per month ...	9,232	9	9
3. Total	9,599	8	9
4. Amount paid into treasury during the month ...	9,311	3	3
5. Balance due at the end of the month ...	288	5	6

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

TOLLY'S NULLAH.

Number of boats or rafts.	Description.	Total Government and Private.				Private.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
84	(a) Jute ...	399	.....	399	27,925	399	27,925	
76	(b) Jaggery ...	524	9	533	63,431	533	63,431	
.....	(c) Sugar ...	.....	.....	.....	.....	.....	.....	
15	(d) Tobacco ...	158	.....	158	30,975	158	30,975	
112	(e) Fish ...	8	1	9	2,801	9	2,801	
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....	
16	(g) Poultry ...	7	.....	7	1,548	7	1,548	
511	(h) Hay and straw...	776	.....	776	16,294	776	16,294	
72	(j) Oil ...	815	32	847	1,18,625	847	1,18,625	
115	(k) Earthenware ...	97	6	103	1,435	103	1,435	
350	(m) Other miscellaneous.	3,743	19	3,762	4,48,716	3,762	4,48,716	
1,351	Total Miscellaneous...	6,527	67	6,594	7,11,750	6,594	7,11,750	

ABSTRACT FOR THE MONTH OF OCTOBER 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Traffic, 1890-91.		Traffic, 1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Calcutta and Eastern Canals ...	37,511 13 3	1,57,444 0 6	29,313 4 3	1,56,610 8 9
Tolly's Nullah	9,232 9 9	57,375 7 9	7,349 14 3	48,926 15 0
Total ...	46,744 7 0	2,14,819 8 3	36,663 2 6	2,05,537 7 9

CALCUTTA,
The 22nd December 1890.

G. A. G. SHAWE,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 20th December 1890, *as compared with the corresponding week of the previous year.*

Nature of Cargo.	Week ending Saturday, the 20th December 1890.			Week ending Saturday, the 21st December 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	1,479	1,12,855	1,555	1,615	1,23,283	1,681
Jute	299	1,60,159	2,932	343	2,02,650	3,687
Firewood	158	1,06,890	1,572	128	66,850	1,269
Other articles	1,055	2,36,695	3,814	996	2,17,070	3,554
Total ...	2,991	6,16,509	9,873	3,082	6,29,853	8,002

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 1,525½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
traffic for the week ...	*220,707	*2,75,646 8 0	23,51,971 20	6,22,837 8 0	16,387 7 0	9,14,811 7 0	71,664½	95,181½	166,845½
r mile of railway	.....	180 11 1	.....	408 4 6	10 11 4	599 10 11	.....	.....	.....
revious 23 weeks of half-	5,242,668	57,42,226 14 0	4,36,50,788 30	1,05,87,656 2 0	3,71,606 12 5	1,67,01,489 12 5	1,510,671½	1,766,016	3,276,687½
Total for 24 weeks ...	5,473,375	60,17,873 6 0	4,60,02,760 10	1,12,10,493 10 0	3,87,944 3 5	1,76,16,301 3 5	1,582,336	1,861,197½	3,443,533½
Comparison.									
for corresponding week previous year	233,323	3,07,230 13 8	24,33,915 20	6,47,779 1 0	−10,212 9 2	9,44,797 6 3	67,449	89,680	157,129
ile of railway correspond- week of previous year ...	.....	201 6 4	.....	424 10 2	−6 11 1	619 5 5	.....	.....	.....
to corresponding date of vious year	5,786,616	65,08,665 7 7	5,11,09,200 0	1,16,54,085 10 3	3,75,764 3 2	1,85,38,515 5 0	1,580,636	1,941,031	3,521,667

* The decrease in coaching traffic is due to figures for the corresponding period of 1889 having included receipts from troop extra and mule special trains.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

...EIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
an ...ase ...ted.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
25½	9,44,797	619	1,525½	9,14,811	600	1,525½	3,05,65,967	542	1,525½	2,86,46,691	508	.....	19,19,276

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 57½ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
al traffic for the week ...	10,406	5,279 0 0	50,731 10	3,518 0 0	38 7 0	8,835 7 0	1,698	696	2,394
per mile of railway	182	92 4 8	887 0	61 8 0	0 10 9	154 7 5	.....	.....	.....
previous 23 weeks of half-	303,245	1,75,628 14 0	8,25,912 30	54,453 15 0	765 13 0	2,30,848 10 0	33,030½	12,863	45,893½
Total for 24 weeks ...	313,651	1,80,907 14 0	8,76,644 0	57,971 15 0	804 4 0	2,39,684 1 0	34,728½	13,559	48,287½
Comparison.									
al for corresponding week f previous year	10,969½	5,911 15 10	39,902 30	2,794 1 0	42 3 0	8,748 3 10	1,901	1,004	2,905
mile of railway correspond- ng week of previous year ...	192	103 5 8	697 30	48 15 7	0 11 10	152 15 1	.....	.....	.....
al to corresponding date of revious year	329,828	1,83,882 11 8	10,77,467 30	55,360 4 0	1,044 14 3	2,40,897 13 11	37,941	17,925	55,866

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

...CEIPTS FOR WEEK ENDING 14TH DECEMBER 1889.			RECEIPTS FOR WEEK ENDING 13TH DECEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 14TH DECEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 13TH DECEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean ...eage ...rked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	8,748	152	57½	8,835	154	57½	3,54,884	108	57½	3,68,643	174	13,759	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 13th December 1890, on 22¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,904	4,185 7 0	7,451 10	305 5 0	7 0 0	4,497 12 0	877	91	96
Or per mile of railway	.....	188 1 9	.....	13 11 7	0 5 0	202 2 4	.....	.....	.....
For previous 23 weeks of half-year	330,261	94,282 14 0	1,69,748 10	6,354 12 0	136 1 0	1,00,773 11 0	20,738	1,196	21,93
Total for 24 weeks ...	397,165	98,468 5 0	1,77,199 20	6,660 1 0	143 1 0	1,05,271 7 0	21,615	1,287	22,90
Comparison.									
Total for corresponding week of previous year	15,776½	3,858 9 0	25,464 10	395 9 0	8 0 6	4,252 2 6	903	185	1,08
Per mile of railway corresponding week of previous year ...	.....	173 6 9	.....	17 5 3	0 5 9	191 1 9	.....	.....	.....
Total to corresponding date of previous year	425,809½	1,04,369 14 1	2,87,649 20	6,891 8 0	151 4 9	1,11,412 10 10	21,976	2,135	24,11

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

Receipts for week ending 14th December 1889.			Receipts for week ending 13th December 1890.			Total receipts from 1st April 1889 to 14th December 1889.			Total receipts from 1st April 1890 to 13th December 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22¼	4,252	191	22¼	4,498	202	22¼	1,94,050	236	22¼	1,90,322	231	.....	3,728

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K.-D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 6th December 1890, on 763 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	188,556	81,690 0 0	5,19,695 0	1,39,900 0 0	16,580 0 0	2,38,260 0 0	22,675	35,562	58,4
Or per mile of railway	247	107 0 0	680 0	183 0 0	†2 0 0	292 0 0	.....	.....	.....
For previous 22 weeks of half-year	3,095,838	13,87,381 0 0	1,34,51,104 0	33,59,580 0 0	3,83,600 0 0	*51,30,561 0 0	488,626	736,070	1,224,6
Total for 23 weeks ..	3,284,394	14,69,071 0 0	1,39,70,199 0	34,99,570 0 0	4,00,180 0 0	53,68,821 0 0	511,501	771,632	1,283,1
Comparison.									
Total for corresponding week of previous year	201,316	79,497 0 0	7,52,677 0	1,96,664 0 0	19,190 0 0	2,95,351 0 0	22,851	38,508	61,3
Per mile of railway corresponding period of previous year ...	269	106 0 0	1,008 0	263 0 0	†2 0 0	371 0 0	.....	.....	.....
Total to corresponding date of previous year	3,337,795	15,08,504 0 0	1,45,77,944 0	36,58,178 0 0	4,16,691 0 0	55,83,373 0 0	519,319	752,092	1,271,4

* Audited up to week ending 25th October 1890.
† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

Receipts for week ending 7th December 1889.			Receipts for week ending 6th December 1890.			Total receipts from 1st April 1889 to 7th December 1889.			Total receipts from 1st April 1890 to 6th December 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,95,261	395	763	2,38,260	312	717	77,19,815	299	760	*77,51,479	293	32,664	.....

* Audited up to week ending 25th October 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 125 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	32,404	12,460 0 0	33,592 0	2,630 0 0	130 0 0	15,220 0 0	3,000	2,020	5,020
Per mile of railway	259	100 0 0	269 0	21 0 0	1 0 0	122 0 0	.....	.....	.....
For previous 22 weeks of half-year	529,849	1,90,522 0 0	8,95,874 0	75,546 0 0	5,275 0 0	*2,69,343 0 0	85,667	33,475	119,142
Total for 23 weeks ...	562,253	2,02,982 0 0	9,29,466 0	76,176 0 0	5,405 0 0	2,84,563 0 0	89,267	35,495	124,762
Comparison.									
Total for corresponding week of previous year	35,742	11,206 0 0	40,567 0	3,433 0 0	406 0 0	15,135 0 0	3,472	2,200	5,672
Per mile of railway corresponding period of previous year ...	286	90 0 0	325 0	28 0 0	3 0 0	121 0 0	.....	.....	.....
Total to corresponding date of previous year	641,759	2,19,491 0 0	13,03,405 0	1,10,625 0 0	5,194 0 0	3,44,310 0 0	81,400	55,488	136,888

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Receipts for week ending 7th December 1889.			Receipts for week ending 6th December 1890.			Total receipts from 1st April 1889 to 7th December 1889.			Total receipts from 1st April 1890 to 6th December 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	15,135	121	125	15,220	122	125	5,24,157	116	125	*4,50,059	100	.....	74,098

* Audited up to week ending 25th October 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 86 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	17,398	6,460 0 0	31,010 0	3,210 0 0	170 0 0	9,840 0 0	2,415	1,033	3,448
Per mile of railway	202	75 0 0	361 0	37 0 0	2 0 0	114 0 0	.....	.....	.....
For previous 22 weeks of half-year	333,830	1,10,579 0 0	4,84,868 0	45,402 0 0	5,506 0 0	*1,61,487 0 0	52,725	16,888	69,613
Total for 23 weeks ...	351,228	1,17,039 0 0	5,15,878 0	48,612 0 0	5,676 0 0	1,71,327 0 0	55,140	17,921	73,061
Comparison.									
Total for corresponding week of previous year	19,038	6,510 0	51,675 0	5,248 0 0	162 0 0	11,920 0 0	2,530	2,055	4,591
Per mile of railway corresponding period of previous year	232	76 0 0	601 0	61 0 0	2 0 0	139 0 0	.....	.....	.....
Total to corresponding date of previous year	358,635	1,15,161 0 0	6,15,684 0	52,637 0 0	4,784 0 0	1,72,582 0 0	57,318	23,298	80,616

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Receipts for week ending 7th December 1889.			Receipts for week ending 6th December 1890.			Total receipts from 1st April 1889 to 7th December 1889.			Total receipts from 1st April 1890 to 6th December 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	11,920	139	86	9,840	114	86	2,46,861	80	86	*2,53,188	83	6,327	.....

* Audited up to week ending 25th October 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 6th December 1890, on 27¼ miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated).	Total earnings	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,950	1,020 0 0	11,827 0	700 0 0	30 0 0	1,750 0 0	501	335	926
Or per mile of railway ...	108	37 0 0	434 0	26 0 0	1 0 0	64 0 0	.....	.....	.....
For previous 22 weeks of half-year	64,602	23,470 0 0	2,25,901 0	12,075 0 0	383 0 0	*35,928 0 0	14,980	8,243	23,223
Total for 23 weeks ...	67,552	24,490 0 0	2,37,818 0	12,775 0 0	413 0 0	37,678 0 0	15,571	8,578	24,149
Comparison.									
Total for corresponding week of previous year	3,566	1,290 0 0	9,046 0	694 0 0	68 0 0	2,052 0 0	586	340	926
Per mile of railway corresponding period of previous year ...	131	47 0 0	332 0	25 0 0	3 0 0	75 0 0	.....	.....	.....
Total to corresponding date of previous year	71,822	26,211 0 0	2,08,187 0	13,360 0 0	1,858 0 0	41,029 0 0	13,328	8,102	21,430

* Audited up to week ending 25th October 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Receipts for week ending 7th December 1889.			Receipts for week ending 6th December 1890.			Total receipts from 1st April 1889 to 7th December 1889.			Total receipts from 1st April 1890 to 6th December 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27¼	2,052	75	27¼	1,750	64	27¼	67,508	69	27¼	*63,600	65	.....	3,908

* Audited up to week ending 25th October 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

Combined System.

Approximate Return of Traffic for week ended 6th December 1890, on 699 miles open.

	Coaching Traffic.		Merchandise and Mineral Traffic.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	Traffic Train-miles run.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week ...	94,480	39,050	3,98,090	58,880	7,570	1,05,500	12,684	15,655	28,339
Or per mile of railway	135·16	55·87	570·37	84·23	10·83	150·93	.....	.....	.....
For previous 21 weeks of half-year	1,690,720	6,85,289	58,07,744	7,55,000	1,52,697	15,92,986	272,360	263,587	535,887
Total for 22 weeks ...	1,785,200	7,24,339	62,66,434	8,13,880	1,60,267	16,98,486	284,984	279,242	564,226
Comparison. *Audited figures.*									
Total for corresponding week of previous year, 649 miles open...	78,112	35,975	2,99,750	42,109	7,829	85,913	11,271	14,431	25,702
Per mile of corresponding week of previous year...	120·36	55·43	461·86	64·89	12·06	132·38	.....	.....	.....
Total to corresponding date of previous year	1,837,898	7,01,030	61,76,990	7,18,088	1,85,781	16,04,899	260,710	288,670	549,380

* Steam-boat earnings for the week Rs. 6,700
Ditto ditto to date „ 1,26,740

* Ajodhya bridge earnings for the week „ 560
Ditto ditto to date „ 9,790

Train mileage figures :—

	a Bengal & N.-W. Section.	Tirhoot Section.
	Rs.	Rs.
Coaching ...	6,013	6,671
Goods ...	6,998	8,657
Total ...	13,011	15,328

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

Receipts for week ending 6th December 1890			Receipts for week ending 7th December 1889			Total receipts from 1st April 1890 to 6th December 1890.			Total receipts from 1st April 1889 to 7th December 1889.			Total increase in 1890-91	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
699	1,05,500	150·93	649	85,915	132·38	676	30,22,166	125·18	649	29,20,552	125·50	1,01,614	.....

	N.B.—Earnings of B. and N.-W. Section. Week ended 6-12-90.	Week ended 7-12-89.	Earnings of Tirhoot Section. Week ended 6-12-90.	Week ended 7-12-89.
	Rs.	Rs.	Rs.	Rs.
Coaching ...	16,980	19,421	22,070	16,554
Goods ...	20,810	12,701	38,070	29,405
Other earnings ...	3,870	4,812	2,700	2,017
Total ...	41,660	36,934	62,840	48,976

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THE following report is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

The 29th December 1890. *Secretary to the Government of Bengal.*

METEOROLOGICAL SUMMARY OF THE MONSOON PERIOD OF 1890.

THE following statement is intended to give a very brief history of the more important features which have characterised the south-west monsoon period and the preceding months of 1890.

During January weather conditions were for the greater part of the month of the normal north-east monsoon character, and up till the 24th no disturbances of any importance entered Bengal. On this date, however, a well-formed barometric depression, which had originated in North-Western India on the 22nd, commenced to pass through the province, travelling through it on the 24th and 25th, and reaching Burma on the 26th. This storm brought rather heavy rain, and in fact practically the whole rainfall of the month was due to it. January was therefore decidedly more free from storms than is usually the case, and for the month rainfall was decidedly deficient in Chutia Nagpur, South Behar, Orissa, and North Behar while it was almost normal in amount in South-West Bengal and North Bengal, and almost twice as great as the normal in East Bengal. Pressure also during the month was rather largely in defect of the normal, the defect usually ranging from 0·06 inch to 0·08 inch; the defect being largest in West and Central Bengal, and smallest in the south of Orissa. Temperature was, on the other hand, in excess of the normal, the

excess averaging about 1·6°; humidity was also larger than usual, and cloud proportion rather smaller.

In February also there was a singular absence of cold-weather storms, and only two slight depressions affected the province, neither of which was sufficiently influential to produce general rain. During this month therefore rainfall was confined to a few local showers of no importance. South-West Bengal, Chutia Nagpur, and North Bengal were entirely rainless, and the average fall in the other districts did not amount to more than a few hundredths of an inch. Pressure also in this month was in defect in all districts by about 0·02 inch. Temperature for the firsthalf of the month was either below or about normal, but during the secondhalf it became in excess of the normal by about 3° to 4°. Cloud proportion continued below the usual amount in February, but humidity was about normal.

In March again there were no storms of the usual cold-weather type, but owing to the comparatively early setting in of hot-weather conditions, a few local storms of the class called nor'westers commenced as early as 4th March, and they continued to occur locally up to about the middle of the month; but they were, as a general rule, decidedly more feeble than usual. Owing, again, to the comparative absence of storms, rainfall was largely in defect of the normal in all districts except Chutia Nagpur and Orissa, the defects being particularly large in North Bengal, North Behar and South-West Bengal; while, on the other hand, Orissa received a fall rather more than twice as large as usual. Barometric pressure continued in March rather largely in defect, the usual defect equalling 0 04 inch to 0·07 inch. In March also the normal rapid increase in temperature was even more pronounced than usual, and the mean temperature was above the normal in all districts by from about half to two degrees. Notwithstanding the defective rainfall humidity was in this month about normal, while cloud proportion was in excess.

In April conditions were of about average hot-weather character, and the mean temperature for the month was almost absolutely normal. During the first half of the month only a few local storms were reported, and these were principally confined to East and North Bengal, but during the third and fourth weeks two small barometric depressions appeared over the province, and for about ten days from the 17th the weather was generally rather unsettled in all districts except Behar and Chutia Nagpur, while in East and North Bengal severe thunderstorms with heavy rain were of almost daily occurrence, and one of them in the neighbourhood of Mymensingh appears to have acquired the violence of a tornado. Rainfall for April was thus considerably in excess of the normal in North and East Bengal, and rather below it in South Behar and South-West Bengal: it was in large defect in North Behar and Orissa, and in Chutia Nagpur rainfall was practically absent. Pressure during the month was slightly below the normal in Lower Bengal, the difference being about a hundredth of an inch in Orissa, South-West Bengal and South Behar, but elsewhere there was a small excess of about corresponding amount.

In the early part of May there was a short period of intensely hot weather in Bengal, which was accompanied by abnormally low pressure and unusually light winds, and more or less complete absence of rainfall in all districts except East and North Bengal. This lasted up to about the 9th or 10th, during which period a small cyclonic storm had been forming in the Bay of Bengal, probably not far from the Andamans, which afterwards moved in a north-north-easterly direction, and on the 7th passed into Burma across the coast between Diamond Island and Akyab, where it broke up on the 8th. The wave of moist winds and disturbed conditions after the breaking up of the storm appeared to drift northwards, and from about the 11th or 12th rainfall became fairly general though by no means heavy over practically the whole province of Bengal. The rainfall for this month was in most districts a little below the normal, the only district in which the defect was considerable being Chutia Nagpur, while on the other hand the falls in East Bengal were slightly above the average. Owing probably to the effect of the cyclonic storm above noted, the general pressure for the month in Bengal was distinctly below the normal, the defect in many cases ranging from two to five hundredths of an inch. The variations of temperature during the month were exceptionally large, and in the early part temperatures of from 4° to nearly 10° in excess were registered, but with the setting in of rainfall

this excess disappeared, and for the whole month, though temperature was higher than usual, the excess was not larger than about one degree.

During the first five months of the year or, in what may be termed, the pre-monsoon months, it will be seen that conditions were somewhat abnormal. Pressure had been in distinct defect in each month, the defect at some stations exceeding a twentieth of an inch in January and March. Temperature also had generally been in excess of the normal. the only exception being in April, when it was practically normal. Rainfall also on the whole was very considerably below the normal in most districts. East Bengal had received a fall in the five months, about 6 per cent. below the normal only, but in Orissa and North Behar the defect was from 25 to 30 per cent., in South-West Bengal 40 per cent., in South Behar 50 per cent., and in North Behar and Chutia Nagpur about 60 per cent. During these five months also there were comparatively few storms; the cold-weather or north-east monsoon storms were indeed almost absent, the hot-weather local storms were also not very numerous, and most of them were not very influential, and the only storm of any importance at all was the cyclonic storm of May which passed over Burma.

In the south of the Bay of Bengal the first advance of the south-west monsoon current appeared to take place in the last day or two of April. This advance progressed rather farther up the Bay than usual, and gave rise to the small storm just referred to. About the second week in May again another advance of the monsoon current appears to have been felt in the south of the Bay, and fairly strong winds continued to be reported at the Ceylon stations up to the close of the month. These facts rather pointed to the probable early establishment of the monsoon current, and therefore of the regular rains over Bengal; but though moderately heavy general rain continued to fall in North and East Bengal from early in June, yet in other districts the commencement of the heavy, almost daily, rainfall which characterises the south west monsoon rains did not take place till about the 18th June. In some of the southern districts fairly general rain had occurred before this date on the 5th and 6th and the 9th and 10th of June, but these falls were again followed by periods of fine weather, and from the 13th and 17th of June only scattered showers of rain were reported. The large advance of the monsoon current which brought about the heavy general rainfall of the 18th and following dates was caused by the advance of a feeble barometric depression which formed in the north-west angle of the Bay on the 17th, after which it advanced into Chutia Nagpur, filling up there on the 20th; on the 22nd also a depression formed over the east of the province, and subsquently moved in a westerly direction, giving very heavy rainfall in its advance—several stations reporting from 5 to 10 inches. Both these depressions caused a large inflow of moist winds over the province, and the wind velocities for June were at the coast stations generally higher than the normal, indicating probably a stronger monsoon than usual. The rainfall for the month was however largely in excess of the normal in all districts except East Bengal, where there was a slight defect. The excess falls usually ranged from twenty-five to forty per cent in excess of the normal, but in South Behar the fall was nearly twice as large as usual.

The mean pressure for June was very nearly normal, the differences being generally under a hundredth of an inch. Temperature was in distinct, though slight, defect of the normal, the defect being generally under a degree.

The strength of the monsoon current blowing in July again continued rather largely above the normal as judged by the wind velocities at the coast stations, and, as will be seen subsequently, rainfall was also in considerable excess. There was also during the month a comparative and indeed an almost complete absence of barometric depressions or cyclonic storms such as usually occur during the rainy season. Only one small storm deserves mention, and this formed quite at the end of June in the north-west of the Bay, and moving in a westerly direction crossed the coast near False Point, early in July, but it only gave moderately strong winds, and brought up comparatively little rainfall. The second was a very unimportant whirl which formed in the north-west angle of the Bay on the 19th, and then passed through Chutia Nagpur to the North-West Provinces, where it filled up on the 24th. During this period a steady south-westerly current blew over the whole province, giving heavy rain in all districts. Indeed, the rainfall over the whole province in July was generally about twenty-five per cent. in excess of the normal,

but the variations in different districts were considerable. In Orissa, which had on the whole about a normal fall, the district of Pooree received a fall about half as large again as usual, while on the other hand the Balasore district received only about half the usual fall. South-West Bengal also received generally almost a normal fall, and included districts such as Midnapore and Howrah, where the falls were about half as much as usual, and on the other hand districts such as Burdwan and Moorshedabad, where they were from 40 to nearly 60 per cent. in excess of the normal. In East Bengal all districts received practically abundant rain, and the general fall was a fifth larger than usual. The falls in North Bengal averaged about thirty per cent. in excess of the usual amount, the excess falls being mainly determined towards the line of the hills, and in the Darjeeling district the falls were nearly twice as large as usual. In North Behar the falls were even larger, and they averaged 74 per cent. in excess, and all the districts in this division received very abundant falls. In South Behar the fall was 36 per cent in excess of the normal, and again all the districts received abundant rain, but in the Chutia Nagpur Division, though the rainfall averaged 16 per cent. in excess, in the district of Singbhoom the fall was only two-thirds of the usual amount.

The pressure changes were rather large during July, though the means of the month were fairly normal, the pressure in East Bengal being almost the average amount, while in the other districts it was below it by amounts varying from one to four hundredths of an inch. In the case of temperature also there were rather large changes, and towards the close of the month the maximum temperatures were at many stations 8° to 10° below the normal. The monthly means of temperature were therefore below the normal, the defect being about one to one and-a-half degrees in all districts except Orissa and South-West Bengal, where it equalled about half a degree.

August also was a month of entire absence of storms of any importance, though a few very unimportant depressions or whirls formed in the early part of August in the north of the Bay. They may perhaps have had the effect of diminishing the strength of the monsoon current blowing over Bengal, for the mean wind velocities for August showed that the winds blowing from the Bay were at almost all the coast stations very largely below their normal strength. Rainfall also in this month was rather considerably below the normal in all districts except North Bengal and Behar, where there was again excessive precipitation. Indeed this tendency for the excessive rainfall to be deflected towards the northern districts of the province, that is, towards North Bengal and Behar, was a most prominent characteristic of the monsoon season of 1890. In August Orissa received about four-fifths of the usual fall, and again, as in July, the Balasore district was most largely in defect. South-West Bengal generally was about 30 per cent. in defect, and in the district of Bankoorah in particular the fall was less than a third of the usual amount. In East Bengal the defect was small only, though in Backergunge and Tipperah districts the defects were considerable. In North Bengal and Behar, on the other hand, the falls were about a third in excess of the normal, and all the districts in these divisions received an abundant fall except Pubna and Rajshahye. In Chutia Nagpur, again, the fall was only three-fourths of the normal, and in the Singbhoom district in particular the fall was only 25 per cent of the usual amount.

The variations of pressure during August were not very large and of little practical importance, and for the whole month the means were above the normal by between two and three hundredths of an inch. As regards temperature, the monthly mean for South-West Bengal was normal, and for the other districts below the normal, the defect being under half a degree in Orissa and East Bengal, and between half and one and-a-half degrees in all the other divisions.

September was again a month in which nothing like a storm occurred in the Bay of Bengal, and during the greater part of the month only light monsoon weather prevailed. A very shallow depression did indeed form from the 13th to the 19th, remaining for the greater part of the time over Orissa, but it was not very influential in the matter of rainfall. A rather more important depression formed in the Bay off Vizagapatam on the 22nd, and gradually drifted inland between Gopalpore and Vizagapatam, moving in a north-westerly and northerly direction, and passing through Orissa into Chutia Nagpur, where it filled up on the 28th. This rather feeble depression nevertheless brought up a

very powerful wave of moisture-laden winds, and very heavy and general rain prevailed over the province during the latter part of the month. The rainfall of the first half of September was, however, much lighter and more scattered than usual, and thus the monthly rainfall was decidedly below the normal in East Bengal, Chutia Nagpur and Behar, while it was about normal in Behar. Orissa, however, through which both depressions passed, received the very heavy rainfall of nearly 70 per cent. in excess of the normal. North Bengal also received very heavy falls of rain as in the previous months, and showed a fall nearly half as large again as the normal. In the division of Orissa all the districts received very heavy falls, but in South-West Bengal, though generally there was a normal fall, Khoolna and Jessore showed rather serious defects. Practically also all the districts in East Bengal showed very seriously deficient rainfall, while all the districts in North Bengal had very heavy falls. In North Behar, Purneah received a large fall, and all other districts comparatively small falls; and in South Behar the falls were most deficient in Gya, South Bhagulpur and Monghyr districts. Finally, in Chutia Nagpur, Singbhoom, which had been in previous months recording most largely deficient falls, in September received comparatively rather larger falls, though even in this month they were below the normal amounts.

The variations of pressure during the first half of September were small and of little consequence, but during the second half they were rather large. The means for the month were below the normal by about 0·02 inch in the south of Orissa, and about 0·03 inch above it in East Bengal, but elsewhere the difference from the normal was only a few thousandths of an inch. In the case of temperature there were large variations, and during the early part of the month, when rainfall was rather deficient, temperature was in considerable excess, but with the heavy falls of rain towards the close of the month a very rapid fall of temperature set in, and it became much below the normal. For the whole month the mean temperature was nearly normal, some districts showing slight defects and others excess temperatures, but in no case did the variations exceed half a degree.

Up to the end of September weather conditions in Bengal continued to be influenced by the depression which had filled up on the 28th in Chutia Nagpur. Early in October, however, rainfall practically ceased over the province, the monsoon current became weak, and apparently commenced to retreat rapidly down the Bay. In its retreat, however, a barometric depression of rather greater importance than those in the preceding months commenced to form, and the little storm had a life history from the 8th to the 16th of October. The depression at first apparently covered a considerable part of the south of the Bay, but up till the 11th it had changed very little, when on this day the centre was probably to the east of Coconada, and was moving in a north or north-westerly direction. On the 12th the centre was close to the coast between Vizagapatam and Gopalpore, and it crossed the coast on the following morning, after which it moved northward, passing through Orissa and the adjacent parts of South-West Bengal and Chutia Nagpur. The small storm was not a severe one, but it brought up particularly heavy rain. The general rainfall in October was to a great extent due to this cause. After this the south-west monsoon current again commenced to retreat down the Bay, but on the 20th a second depression began to appear in the east of the centre of the Bay. This small storm, which was only of feeble character and of very local influence, moved in a northerly direction over the Sunderbuns into East Bengal, and on the 23rd its centre was near Furreedpore, and it filled up on the following day. Except in the immediate proximity of the storm centre, the rainfall brought up was light, and it did not extend generally beyond East Bengal. After the 25th October the monsoon current again retreated, giving a few showers in Orissa, but practically by the close of October the south-west monsoon rainfall had entirely ceased, and a steady northerly wind current was setting in over the whole of the province. The dates on which the general rainfall ceased in the various meteorological divisions were as follows:—in South Behar and Chutia Nagpur about the 15th, in North Behar and North Bengal about the 17th, in South-West Bengal the 18th to the 20th, in East Bengal on the 25th, and in Orissa about the 31st.

Owing principally to the heaviness of the rainfall brought up by the first of the two feeble storms described, the rainfall in October was considerably

above the normal, the general excess averaging nearly 50 per cent. In only one division were the falls below the usual amount, and in Chutia Nagpur the defect was about 30 per cent., and all the districts in the division showed large deficiency. In Behar the falls generally were slightly heavier than usual, but in the districts making up the division there were very great anomalies. The Sonthal Pergunnahs received a fall about three times as large as usual, receiving ten inches of rain instead of about three-and-a-half; the Chumparun and South Bhagulpur districts also received considerable excess falls; but on the other hand, the falls in Gya, Sarun, Patna and Shahabad were extremely defective. East Bengal generally received a fall of about a quarter larger than usual, but even here Chittagong was considerably in defect. In Orissa the fall was about half as large again as usual, all districts receiving an excess fall; and in South-West Bengal the general fall averaged eight inches against the normal amount of about four inches, and the excess falls in the districts of 24-Pergunnahs, Beerbhoom and Nuddea were particularly large. The Division of North Bengal, however, again showed the peculiar determination of the rain-bearing current towards this district, and it received nearly twelve and a third inches general fall as against a normal amount of about four inches and a third. In many of the districts of North Bengal in October indeed the actual falls were from three to four times the ordinary amounts.

In regard to the other meteorological elements for October pressure changes during the existence of the first small storm described were moderately large, but during the second storm they were small. For the whole month the mean pressure did not differ from the normal by more than a few thousandths of an inch. Owing apparently to the heaviness of the rainfall in October, the mean temperatures were rather largely below the normal, the defects ranging from 1·6° in Chutia Nagpur to 0·3° in North Behar.

The principal features of the monsoon season of 1890 and of the months preceding it in Bengal have therefore been—

1. Pressure was rather decidedly in defect of the normal up to the commencement of the rains.

2. Temperature was on the other hand in excess of the normal both during the north-east monsoon season and in the hot-weather season, and indeed up till practically the commencement of the rains.

3. There was an almost entire absence of cold-weather storms during the early months of the year, and the hot-weather storms were not very numerous nor were they of any particular intensity in most cases. The only storm of any importance whatever was one which occurred in front of the first advance of south-west monsoon winds in the Bay, and which afterwards struck the coast between Akyab and Diamond Island, but even this was not very intense.

4. Rainfall up to the setting in of the monsoon rains was on the whole considerably below the normal, the defects ranging from 6 per cent. of the normal in East Bengal to 50 and 60 per cent. in North Behar and Chutia Nagpur.

5. The actual monsoon rains set in a few days later than usual, the general date over the greater part of the province being about 18th June.

6. During the whole of the south-west monsoon and even during its retreat southwards down the Bay, not a single severe storm has occurred, and the only importance which any of the few whirls which were formed possessed has been due to the rainfall brought up by them. The monsoon period this year has therefore been a singularly quiet one.

7. The monsoon current appeared to be considerably in excess of its normal strength in June and July, though in August and September it was rather below it. It retreated from Bengal at about the normal period.

8. Rainfall was largely in excess of the normal in June and July, of more nearly normal amount in August and September, and again largely in excess in October.

9. The rainfall in October continued rather later than usual owing to the effect of a diffused barometric depression which advanced from the Bay over part of the province about the middle of the month.

10. There was a very singular and pronounced tendency for the heavy rainfall to concentrate itself towards the north of the province and towards the line of the hills. This tendency was particularly well marked in the districts of North Behar and to a rather smaller extent over North and South Behar. In

North Bengal the rainfall from June to October inclusive was about 63 per cent. in excess of the normal.

11. The following tables give briefly the amount and variation of the rainfall in each of the seven meteorological divisions, month by month, for the monsoon season, May to October inclusive :—

Actual Rainfall in inches.

Meteorological Divisions.	May.	June.	July.	August.	September.	October.	Year.
Orissa ...	3·84	11·05	12·05	9·28	17·21	9·00	62·43
South-West Bengal ...	4·71	14·25	12·20	8·67	9·36	8·07	57·26
East Bengal ...	9·44	16·25	19·87	14·10	7·21	6·92	73·79
North Bengal ...	6·88	23·14	18·02	18·20	19·17	12·30	97·71
North Behar ...	3·03	12·24	21·45	15·54	9·53	3·59	65·38
South Behar ...	2·28	12·29	16·28	14·15	6·53	3·78	55·31
Chutia Nagpur ...	1·72	10·10	15·22	10·01	7·03	2·07	46·15

Variation of actual Rainfall from the average in inches.

Orissa	— 0·03	+ 2·27	— 0·43	— 2·12	+ 6·96	+ 2·84	+ 9·49
South-West Bengal ...	— 0·69	+ 4·14	+ 0·20	— 4·10	+ 0·32	+ 3·74	+ 3 61
East Bengal ...	+ 0·18	— 1·96	+ 3·36	— 1·83	— 4·87	+ 1·49	— 3·63
North Bengal ...	— 1·64	+ 5·60	+ 3·98	+ 4·36	+ 5·75	+ 7·92	+ 25·97
North Behar ...	— 0·17	+ 3·52	+ 9·11	+ 3·94	— 0·32	+ 0·05	+ 16·13
South Behar ...	— 0·11	+ 5·58	+ 4·26	+ 2·78	— 1·45	+ 0·48	+ 11·54
Chutia Nagpur ...	— 0·93	+ 2·16	+ 2·13	— 3·51	— 1·68	— 0·90	— 2·73

Variation expressed in a percentage of the normal fall.

Orissa	— 1	+ 26	— 4	— 19	+ 68	+ 46	+ 18
South-West Bengal ...	— 13	+ 41	+ 2	— 32	+ 4	+ 86	+ 7
East Bengal ...	+ 2	— 11	+ 20	— 11	— 40	+ 27	— 5
North Bengal ...	— 19	+ 32	+ 28	+ 31	+ 43	+ 180	+ 36
North Behar ...	— 5	+ 40	+ 74	+ 34	— 3	+ 1	+ 33
South Behar ...	— 5	+ 83	+ 35	+ 24	— 18	+ 15	+ 26
Chutia Nagpur ...	— 35	+ 27	+ 16	— 26	— 19	— 30	— 6

12. Finally, the rainfall of the whole province from May to October inclusive averaged 65·43 inches, while the normal fall for the period is 56·81 inches, so that the actual average fall has been in excess by 8·62 inches. Expressed as a percentage, the actual rainfall in the province of Bengal for this period has been in excess of the normal by 15 per cent.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal.

Meteorological Office, Bengal,
The 13th December 1890.

TABLE I.

Actual Monthly Rainfall of districts in Bengal for the months of May to October 1890.

[*N. B.*—The figures in this table are the arithmetical averages of the corresponding figures in the returns for the sub-divisional stations.]

Division.	District.	May.	June.	July.	August.	September.	October.	Total.
Orissa ..	Pooree ...	2·13	9·74	16·06	10·45	15·94	10·28	64·60
	Cuttack ...	3·69	9·33	14·70	9·96	16·78	7·62	62·08
	Balasore ...	5·12	13·37	7·16	7·94	18·42	9·28	61·29
South-West Bengal.	South Midnapore and South-West 24-Pergunnahs.	7·42	9·91	7·36	9·72	13·32	18·37	66·10
	Midnapore ...	6·52	14·26	9·34	5·49	9·98	4·73	50·32
	24-Pergunnahs ...	5·38	12·77	9·16	9·46	9·66	10·44	56·87
	Hooghly and Howrah	4·73	16·50	8·90	8·51	9·48	6·03	54·15
	Bankoora ...	4·05	14·62	14·17	4·85	8·97	5·34	52·00
	Beerbhoom ...	1·87	17·22	16·00	10·25	10·27	8·08	63·69
	Burdwan ...	3·16	20·29	14·44	6·62	11·98	4·99	61·48
	Nuddea ...	4·50	12·21	11·59	8·57	10·09	8·74	55·70
	Moorshedabad ...	3·30	11·72	17·69	10·95	9·85	7·44	60·95
	Khoolna and Jessore ...	6·11	14·65	11·63	9·34	5·34	7·85	54·92
East Bengal	Chittagong ...	4·92	25 29	48·20	24·42	11·40	3·88	118·11
	Chittagong Hill Tracts	8·96	14·77	22·71	15·39	9·31	4·30	75·44
	Backergunge ...	6·38	16·29	19 46	12·37	6·84	7·14	68·48
	Noakholly ...	10·65	19·79	25·79	24·44	11·05	8·80	100·52
	Furreedpore ...	5·71	9·07	11·14	10·04	4·10	7·53	47·59
	Dacca ...	11·29	13·29	14·93	12 55	3·57	5·18	60·81
	Tipperah ...	10·65	14·70	16·80	10·75	5·65	6·26	64·81
	Mymensingh ...	11·33	19·68	17·04	12·88	9·48	9·03	79·44
North Bengal.	Pubna	7·97	10·50	10·61	9·10	12·39	5·63	56·20
	Bogra	6·44	16·34	13·47	14·06	16·50	11·36	78·17
	Rajshahye ...	5·72	17·98	19·07	8·00	15·16	10·02	75·95
	Maldah ...	4·63	11·26	11·29	16·59	12·95	7·60	64·32
	Dinagepore ...	6·14	16·53	16·80	16·10	17·42	11·44	84·43
	Rungpore ...	8·69	28·01	14·50	14·93	26·65	18·28	111·06
	Julpigoree and Cooch Behar.	7·67	44·13	30·75	36·43	24·68	14 98	158·64
	Darjeeling Hill ...	7·40	32·39	60·22	31·87	22·38	14 28	168·54
North Behar	Purneah and North Bhagulpore.	3·51	15·23	23·04	18·87	14·09	6·23	80·97
	Durbhunga ...	2·31	10·87	22·94	14·88	5·94	1·74	58·68
	Mozufferpore ...	2·60	8·36	20·20	13·26	7·18	1·79	53·39
	Chumparun ...	4·35	12·65	23·38	13·92	9·08	5·67	69·05
	Sarun	2·09	10·53	17·28	14·46	8·18	1·48	54 02
South Behar	Shahabad ...	0·71	10·32	16·44	13·43	7·45	1·34	49·69
	Gya ...	1·20	13·18	17·47	20·10	4·85	0·43	57·23
	Patna ...	2·41	8·46	15·40	14·04	7·57	1·34	49·22
	Monghyr and South Bhagulpore.	3·35	12·64	16·89	12·23	5·35	3·17	53·63
	Sonthal Pergunnahs...	3·31	15·60	15·45	12·45	7·18	10·21	64·20
Chutia Nagpur.	Hazaribagh ...	1·08	10·74	17·98	9·72	7·74	1·75	49·01
	Lohardugga ...	1·83	7·87	15·50	14·27	6·36	1·63	47·46
	Manbhoom ...	1·94	12·36	10·78	7·60	5·99	3·31	41·98
	Singbhoom ...	4·25	9·04	9·42	3·48	7·18	1·73	35·10

TABLE II.

Variation of the average district actual Monthly Rainfall from the normal average for the months of May to October 1890.

Division.	District.	May.	June.	July.	August.	September.	October.	Total.
Orissa	Pooree	—0·87	+1·32	+4·07	—1·43	+5·79	+2·10	+10·98
	Cuttack ...	+0·18	—0·19	+2·47	—1·06	+7·45	+1·99	+10·84
	Balasore ...	+0·37	+4·97	—5·85	—3·47	+7·32	+4·03	+7·37
South-West Bengal.	South Midnapore and South-West 24-Pergunnahs.	+2·62	+0·10	—8·10	—4·59	+1·88	+10 65	+2·56
	Midnapore ...	+1·33	+4·82	—3·41	—8·44	+1·89	+0·46	—3·35
	24-Pergunnahs ...	—0·34	+3·04	—3·26	—3·73	+0·89	+6·34	+2·94
	Hooghly and Howrah	—0·63	+6·80	—3·96	—5·60	+0·96	+2·10	—0·33
	Bankoora ...	+0·22	+4·64	+0·78	—9·51	+0·80	+1·88	—1·19
	Beerbhoom ...	—1·54	+7·15	+3·06	—2·85	+0·39	+4·62	+10·83
	Burdwan ...	—1·89	+11·41	+3·86	—5·48	+4·31	+1·02	+13·23
	Nuddea ...	—1·87	+2·49	+1·35	—3·46	+1·50	+4·53	+4·54
	Moorshedabad ...	—1·96	+2·59	+6·81	—0·93	—0·55	+3·22	+9·18
	Khoolna and Jessore	—0·68	+2·33	+0·44	—2·64	—3·60	+3·43	—0·72
East Bengal	Chittagong ...	—5·08	—4·34	+17·14	+0·97	—2·92	—2·78	+2·99
	Chittagong Hill Tracts	—0·57	—4·63	+5·31	—1·61	—3·24	—2·86	—7·60
	Backergunge ...	—1·28	—2·91	+1·48	—3·24	—5·28	+1·59	—9·64
	Noakholly ...	+0 26	—7·53	+2·52	—0·23	—5·71	+2 43	—8·26
	Furreedpore ...	—2·88	—3·48	—0·76	—2·02	—4·95	+3·09	—11·00
	Dacca ...	+2·43	0	+0·90	—0·53	—6·60	+0·73	—3·07
	Tipperah ...	+0·52	—1·75	+2·98	—5·22	—5·70	+1·15	—8·02
	Mymensingh ...	+1·63	+2·20	+3·68	—0·96	—3·56	+3·62	+6·61
North Bengal.	Pubna ...	+0·86	—0·65	+0·04	—2·90	+1·97	+1·04	+0·36
	Bogra ...	—1·35	+3·57	+0·72	+2·43	+6·09	+6·96	+18·42
	Rajshahye ...	—0·15	+6·89	+7·72	—3·08	+3·30	+6·29	+20·97
	Maldah ...	+0·14	—0·60	—0·70	+4·57	+1·90	+3·91	+9·22
	Dinagepore ..	+0·04	+3·01	+4·75	+4·56	+6·10	+7·89	+26·35
	Rungpore ...	—2·54	+6·71	+0 51	+2·86	+13·21	+13·39	+34·14
	Julpigoree and Cooch Behar.	—5·43	+13·05	+9·83	+13·98	+3·64	+9·69	+44·76
	Darjeeling Hill ...	—3·45	+3·97	+27·52	+4·89	+3·74	+8 23	+44·90
North Behar	Purneah and North Bhagulpore.	—1·43	+3·73	+9·28	+5·19	+1·70	+2·62	+21·09
	Durbhunga ...	—0·32	+2·84	+11·35	+4·13	—3·31	—1·18	+13·51
	Mozufferpore ...	+0·14	+0·94	+8 78	+3·18	—1·81	—1·61	+9·62
	Chumparun ...	+1·76	+4·46	+11·81	+1·98	—0·22	+2·13	+21·92
	Sarun ...	+0·09	+4·11	+5·10	+4·17	+0·73	—2·73	+11·47
South Behar	Shahabad ...	—0 61	+5·31	+5·09	+1·96	+0·38	—1·96	+10·17
	Gya ...	—0·57	+7·55	+5·24	+8·37	—1·94	—2·40	+16·25
	Patna ...	+0·32	+2·22	+3·45	+3·56	+0·53	—1·91	+8·17
	Monghyr and South Bhagulpore.	+0·90	+5·69	+5·29	+1·17	—2·56	—0·03	+10·46
	Sonthal Pergunnahs ..	—0·53	+6·65	+2·59	+0·54	—3·03	+6·46	+12·68
Chutia Nagpur.	Hazaribagh ...	—1·38	+2·66	+4·54	—4·00	—1·33	—1·22	—0·73
	Lohardugga ...	—0·54	+0·39	+2·70	+0·96	—2·54	—1·09	—0·12
	Manbhoom ...	—0·83	+4·28	—1·29	—5·60	—1·70	—0·03	—5·17
	Singbhoom ...	+0·08	+0·74	—4·85	—10·35	—1·14	—1·22	—16·74

TABLE III.

The variation of the average District Monthly Rainfall expressed as a percentage of the Normal Rainfall for the months May to October 1890.

Division.	District.	May.	June.	July.	August.	September.	October.	Total.
Orissa	Pooree	—29	+16	+34	—12	+57	+26	+20
	Cuttack ...	+5	—2	+20	—10	+80	+35	+21
	Balasore ...	+8	+59	—45	—30	+66	+77	+14
South-West Bengal.	South Midnapore and South-West 24-Pergunnahs.	+55	+1	—53	—32	+16	+138	+4
	Midnapore ...	+26	+51	—27	—60	+23	+11	—6
	24-Pergunnahs ...	—6	+31	—26	—28	+10	+155	+5
	Hooghly and Howrah	—12	+70	—31	—40	+11	+54	—1
	Bankoora ...	+6	+46	+6	—66	+10	+54	—2
	Beerbhoom ...	—45	+71	+24	—22	+4	+134	+20
	Burdwan ...	—37	+129	+36	—45	+56	+26	+27
	Nuddea ...	—29	+26	+13	—29	+17	+108	+9
	Moorshedabad ...	—37	+28	+63	—8	—5	+76	+18
	Khoolna and Jessore	—10	+19	+4	—22	—40	+78	—1
East Bengal	Chittagong ...	—51	—15	+55	+4	—20	—42	+3
	Chittagong Hill Tracts	—6	—24	+31	—10	—26	—40	—9
	Backergunge ...	—17	—15	+8	—21	—44	+28	—12
	Noakhally ...	+3	—28	+11	—1	—34	+38	—8
	Furreedpore ...	—34	—28	—6	—17	—55	+70	—19
	Dacca ...	+27	0	+7	—4	—65	+16	—5
	Tipperah ...	+5	—11	+22	—33	—50	+23	—11
	Mymensingh ...	+17	+13	+28	—7	—27	+67	+9
North Bengal.	Pubna ...	+12	—6	+1	—24	+19	+23	+1
	Bogra ...	—17	+28	+6	+21	+58	+158	+31
	Rajshahye ...	—3	+62	+68	—28	+28	+169	+38
	Maldah ...	+3	—5	—6	+38	+17	+106	+17
	Dinagepore ...	+1	+22	+39	+39	+54	+222	+45
	Rungpore ...	—23	+32	+4	+24	+98	+274	+43
	Julpigoree and Cooch Behar.	—41	+42	+47	+62	+17	+183	+39
	Darjeeling Hill ...	—32	+14	+84	+18	+20	+136	+36
North Behar	Purneah and North Bhagulpore.	—29	+32	+67	+38	+14	+73	+35
	Durbhunga ...	—12	+35	+98	+38	—36	—40	+30
	Mozufferpore ...	+6	+13	+77	+32	—20	—47	+22
	Chumparun ...	+68	+54	+102	+17	—2	+60	+47
	Sarun ...	+5	+64	+42	+41	+10	—65	+27
South Behar	Shahabad ...	—46	+106	+45	+17	+5	—59	+26
	Gya ...	—32	+134	+43	+71	—29	—85	+40
	Patna ...	+15	+36	+29	+34	+8	—59	+20
	Monghyr and South Bhagulpore.	+37	+82	+46	+10	—32	—1	+24
	Sonthal Pergunnahs...	—14	+74	+20	+5	—30	+172	+25
Chutia Nagpur.	Hazaribagh ...	—56	+33	+34	—29	—15	—41	—2
	Lohardugga ...	—23	+5	+21	+7	—29	—40	0
	Manbhoom ...	—30	+53	—11	—42	—22	—1	—11
	Singbhoom ...	+2	+9	—34	—75	—14	—41	—32

TABLE IV.

onthly Rainfall of the Sub-divisional Rainfall-recording Stations in the Province of Bengal for the months of May to October 1890.

GICAL N.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
	Pooree ...	Pooree ...	1·84	9·29	14·81	13·55	16·30	11·90	67·69
		Khurdah ...	3·84	12·74	23·14	3·80	13·23	8·71	65·46
		Banpur ...	0·50	6·52	14·02	13·42	18·52	9·80	62·78
		False Point ...	2·35	10·40	12·27	11·01	15·71	10·71	62·45
		Gop ...	?	?	18·53	8·36	15·98	10 49	?
		Satpara ...	0·30	5·85	11·21	5·91	7·50	9·71	40·48
		Pipli ...	2·39	12·56	31·60	10·61	11·76	6·69	75·61
...	Cuttack ...	Jagatsingpore ...	1·05	9·68	15·06	10·05	17·33	9·45	62·62
		Banki ...	3·15	11·40	14·70	11·13	13·99	6·47	60·84
		Cuttack ...	3·83	12·24	21·15	14·03	21·02	8·54	80·81
		Kendrapara ...	3·73	4·72	11·25	9·12	16·55	7·31	52·68
		Jajpore ...	6·69	8·62	11·33	5·49	15·01	6·32	53·46
		Dharmsala ...	5·05	13·40	11·37	6·42	12·19	5·10	53·53
		Salipore ...	1·91	12·44	12·94	5·00	11·85	7·71	51·85
	Balasore ...	Chandbali ...	4·04	9·31	10·50	6·32	13·74	8·54	52·45
		Bhuddruck ...	4·57	14·36	7·24	5·89	14·47	11·14	57·67
		Sorah ...	5·20	14·78	6·20	9·39	19·07	7·00	61·64
		Balasore ...	6·20	14·76	5·76	7·86	22·89	9·18	66·65
		Jellasore ...	5·96	12·22	5·79	8·46	22·05	10·36	64·84
		Baripodah ...	4·72	14·77	7·49	9·74	18·30	9·43	64·45
	Midnapore ...	Contai ...	10·06	10·18	3·76	6·74	15·11	21·61	67·46
		Saugor Island ...	5·66	9·80	8·07	9·88	12·52	21·76	67·69
		Tumlook ...	9·20	12·70	10·40	6·50	12·20	7·10	58·10
		Midnapore ...	5·81	17·50	6·04	5·72	7·80	5·10	47·97
		Ghatal ...	4·54	12·57	11·57	4·25	9·95	1·98	44·86
		Kukrahaty ..	5·40	7·16	6·10	8·12	13·71	10·25	50·74
		Garbeta ...	3·39	11·91	15·22	3·11	9·02	3·58	46·23
	24-Pergunnahs.	Diamond Harbour	6·52	9·76	10·26	12·53	12·34	11·77	63·18
		Canning Town ...	4·49	14·59	10·41	16·62	7·18	14·03	67·32
		Alipore Jail ..	4·70	13·93	11·55	10·14	12·42	9·68	62·42
		Barrackpore ...	5·59	11·82	8·76	8·31	9·13	8·41	52·02
		Dum-Dum ...	3·48	13·28	6·88	8·62	11·77	12·04	56·07
		Baraset ...	6·76	10·59	7·32	9·47	9·69	11·17	55·00
		Buseerhat ...	6·38	14·25	11·31	10·76	5·31	10·89	58·90
r	Howrah ...	Howrah ...	3·16	13·44	8·61	9·27	9·95	7·06	51·49
BAL.		Mohesreka (*Ooloobcriah*).	5·56	24·86	6·50	7·36	10·01	5·28	59·57
	Hooghly ...	Serampore ...	5·44	12·67	9·08	9·41	10·53	8·41	55·54
		Hooghly ...	4·33	15·47	6·38	7·52	12·52	6·17	52·39
		Jehanabad ..	5·14	16·04	13·91	8·98	4·38	3·21	51·66
	Burdwan ...	Culna ...	3·06	18·07	11·88	6·63	10·91	3·97	54·52
		Burdwan ...	2·96	21·02	19·52	7·16	11·00	3·50	65·16
		Cutwa ...	3·47	21·78	11·92	6·06	14·04	7·49	64·76
		Raneegunge ...	2·48	17·89	13·47	9·74	8·03	8·83	60·44
		Mankur ...	4·14	16·99	10·99	7·41	4·89	3·38	47·80
	Bankoora ...	Bankoora ...	4·61	12·16	20·70	4·25	11·28	4·76	57·76
		Bishenpore ..	6·58	15·44	10·85	3·52	9·90	4·66	50·95
		Maliara ..	1·50	21·94	14·87	7·37	7·63	5·92	59·23
		Khatra ...	3·52	8·95	10·24	4·27	7·06	6·02	40·06
		Indas ...	2·73	16·26	21·87	6·48	6·89	5·74	59·97
		Kotalpore ...	4·87	18·54	23·34	6·88	6·63	6·68	66·94

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	T
South-West Bengal—*concld.*	Bankoora—*concluded.*	*Anda* ...	3·30	12·51	16·35	2·57	11·18	9·20	
		Gangajalghati ...	3·01	23·18	15·93	7·27	10·49	3·87	
		Raipore ...	6·65	10·24	15·05	6·29	9·15	6·13	
		Sonamukhi ...	2·46	14·25	16·08	6·44	9·00	4·51	
	Beerbhoom ...	Bh. Soory ...	1·16	16·36	20·92	8·64	8·57	6·37	
		Hetampore ...	1·03	17·62	13·94	6·35	11·58	9·03	
		Rampore Haut...	2·78	17·00	15·65	16·28	12·89	8·08	
		Bolpore ...	2·76	16·59	13·94	8·66	10·25	4·03	
		Morarai ...	2·26	10·21	19·69	10·62	7·00	7·11	
	Nuddea ...	Ranaghat ...	2·91	15·04	11·87	7·72	11·02	7·50	
		Kishnaghur ...	5·27	14·31	13·07	9·11	12·13	7·67	
		Chooadanga ...	4·58	10·17	8·76	8·23	8·08	8·27	
		Meherpore ...	2·36	11·97	13·45	8·98	9·06	13·25	
		Kooshtea ...	7·38	9·58	10·80	8·89	10·15	6·99	
	Khoolna ...	Satkhira ...	8·39	13·32	10·53	11·42	6·82	7·04	
		Bagirhat ...	6·13	20·84	15·53	8·61	5·66	6·35	
		Khoolna ...	5·73	15·74	12·79	7·27	4·86	7·99	
		Nakipore ...	10·71	15·58	9·53	15·05	9·03	15·13	
		Rampal ...	5·94	15·54	15·40	9·51	8·38	11·44	
	Jessore ...	Narail ...	8·08	14·45	7·87	8·45	1·83	12·01	
		Jessore ...	5·28	19·92	9·10	12·59	6·09	9·76	
		Jhenidah ...	4·38	10·54	20·29	8·53	7·13	5·95	
		Magoora ..	6·25	11·88	8·35	11·22	2·48	5·19	
		Bongong ...	4·60	10·52	8·59	6·59	7·86	8·50	
	Moorshedabad.	Kandi ...	3·40	12·40	19·22	13·27	12·67	4·81	
		Berhampore ...	1·76	10·79	20·50	11·29	8·52	7·61	
		Lalbagh ...	2·03	10·85	23·07	10·86	9·66	7·59	
		Azimgunge ...	4·87	13·36	14·13	9·33	9·93	6·85	
		Jungipore ...	0·96	12·48	11·65	10·71	7·58	8·46	
		Lalgola ...	6·82	10·45	17·54	10·21	10·78	9·30	
		Jiagunge ...	4·71	12·22	12·79	?	?	?	
		Akhrigunge ...	3·96	12·03	18·48	7·79	11·26	8·63	
		Patkabari ...	1·80	13·60	13·40	?	10·60	6·00	
East Bengal.	Chittagong...	Cox's Bazar ...	7·35	34·10	45·12	26·45	11·79	3·39	
		Chittagong ...	2·49	16·48	51·28	22·39	11·01	4·38	
		Kutubdia ...	6·62	15·57	43·42	25·89	15·54	6·80	
		Satkanya ...	4·37	13·40	33·83	17·55	10·61	3·35	
	Chittagong Hill Tracts.	Rangamati ...	7·58	14·11	20·96	17·14	7·92	3·60	
		Ruma ...	10·34	15·43	24·46	13·63	10·70	5·00	
	Backergunge.	Patuakhally ...	6·05	17·28	21·98	15·96	8·25	9·49	
		Perozepore ...	5·61	17·94	18·57	8·45	7·17	5·17	
		Burrisal ...	7·08	18·34	18·27	8·52	7·43	7·07	
		Bhola ...	6·77	11·61	19·01	16·56	4·51	6·81	
		Gournaddi ...	3·90	13·78	11·39	6·40	4·50	5·49	
		Bauphal ...	7·00	12·78	21·21	14·97	8·62	8·94	
	Noakholly...	Noakholly ...	10·87	16·77	24·91	20·34	12·93	10·08	
		Fenny ...	10·41	22·80	26·66	28·54	9·16	7·53	
		Harishpore ...	12·20	27·68	46·20	55·78	21·30	10·90	
		Ramganj ...	9·75	17·77	19·81	11·85	3·97	4·80	
	Furreedpore	Madaripore ...	5·72	7·62	11·01	7·62	2·08	8·71	
		Furreedpore ...	5·21	10·87	11·02	14·47	4·04	7·38	
		Goalundo ...	6·19	8·72	11·40	8·04	6·17	6·49	
	Dacca ...	Munshigunge ...	12·11	13·80	13·95	12·00	3·43	4·17	
		Dacca ...	13·17	11·08	15·72	11·80	1·98	6·06	
		Naraingunge ...	12·69	12·82	18·24	14·48	1·99	8·26	
		Manickgunge ..	7·15	15·47	11·82	12·48	6·87	7·26	
		Joydebpore ...	12·85	14·40	14·26	14·10	8·02	6·35	
	Hill Tipperah..	Agartola ...	12·84	16·18	16·64	7·91	8·32	?	

OLOGICAL ISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
ST AL— ld.	Tipperah ...	Comilla ...	10·44	13·92	21·17	12·73	4·84	8·21	71·31
		Chandpore ...	9·02	15·39	12·82	12·74	4·52	5·12	59·61
		Brahmunberia ...	10·29	13·30	16·55	9·61	4·92	5·37	60·04
		Ramchandrapore	10·12	14·87	27·55	14·80	5·87	8·45	81·66
		Nasirnagar ..	14·91	9·68	8·19	5·15	2·85	1·80	42·61
		Daudkandi ...	5·18	9·83	5·29	4·30	2·90	5·21	32·71
		Kusba ...	13·80	23·74	17·95	2·18	0·62	0·84	59·13
		Laksham ...	11·45	16·40	25·44	12·80	3·63	3·22	72·94
	Mymensingh	Kishoregunge ...	11·84	18·30	13·81	14·85	7·98	6·10	72·88
		Atia (*Tangail*) ...	14·82	11·01	11·10	8·19	4·87	8·95	58·94
		Mymensingh ..	10·93	20·46	19·37	12·90	9·86	8·88	82·40
		Jamalpore ...	9·91	22·80	16·15	10·21	14·10	10·29	83·46
		Netrokona ...	9·17	25·81	24·77	18·27	10·60	10·92	99·54
		Subornakhally ...	7·95	9·19	13·57	5·32	16·80	6·86	59·69
		Durgapore ...	13·73	32·23	29·92	26·61	12·45	11·83	126·77
		Sherepore Town	9 09	18·07	13·49	8·17	12·58	9·48	70·88
		Dewanganj ...	12·09	17·59	15·78	9·43	9·94	11·02	75·85
	Pubna ...	Pubna ...	4·82	11·33	8·77	9·48	8·85	4·14	47·39
		Serajgunge ...	11·14	9·66	12·44	8·72	15·93	7·11	65·00
	Bogra ...	Sherepore ...	4·83	16·12	14·87	14·72	17·59	10·18	78·31
		Nowkhilla ..	10·23	12·15	15·04	11·66	11·50	10·18	70·76
		Bogra ...	4·87	13·80	13·82	17·08	18·44	12·06	80·07
		Panchbibi ...	5·78	23·27	10·13	12·79	18·46	13·05	83·48
	Rajshahye ...	Beauleah ..	3·69	17·03	22·67	6·91	10·82	10·43	71·55
		Nattore ...	7·35	21·28	18·23	10·16	20·82	10·00	87·84
		Naogaon ...	6·13	15·64	16·30	6·90	13·85	9·63	68·45
		Lalpore ...	5·02	8·41	13·16	7·87	11·28	8·66	54·40
		Manda ...	3·82	8·56	12·20	5·82	6·55	12·97	49·92
	Maldah	Maldah ...	4·72	11·50	9·93	18·64	14·43	6·87	66·09
		Chanchal ..	4·55	11·02	12·65	14·55	11·47	8·33	62·57
		Gajol ...	3·47	13·48	17·00	23·39	14·39	6·52	78·25
		Sibgunj ...	6·02	13·75	14·96	7·81	7·78	13·10	63·42
H NGAL.	Dinagepore...	Mohadebpore ...	6·12	13·91	16·98	7·50	18·02	8·51	71·04
		Churamon ...	5·49	18·08	16·64	16·93	16·44	9·78	83·36
		Raigunge ..	4·40	17·02	19·22	24·25	15·75	13·77	94·41
		Dinagepore ...	8·52	17·81	16·88	18·05	14·00	14·78	90·14
		Baloorghat ...	6·16	15·81	14·26	13·75	22·87	10·39	83·24
		Thakurgaon ...	8·45	30·56	15·56	23·23	18·42	17·31	113·53
	Rungpore ...	Bhawanigunge... (*Gyabanda*).	10·69	23·78	16·37	15·96	42·12	20·20	129·12
		Rungpore ...	8·83	25·09	13·73	11·27	23·56	19·95	102·43
		Kurigram ...	7·29	31·01	12·92	11·43	19·07	17·57	99·29
		Bagdogra ... (*Nilphamari*).	7·96	32·16	14·99	21·07	21·85	15·37	113·40
		Ulipore ...	15·99	21·63	9·28	18·94	22·55	17·78	106·17
	Julpigoree ...	Julpigoree ...	7·47	40·82	41·46	31·07	21·27	18·29	160·38
		Alipore Doar ...	6·44	55·30	38·44	46·07	30·07	14·27	190·59
		Fallacotta ..	4·72	44·77	40·99	20·12	21·70	16·59	148·89
		Debiguni ...	9·71	32·63	16·54	26·52	19·78	13·22	118·40
		Bhagalpore (*Nagrakatta*).	10·69	29·39	56·84	37·06	37·10	15·49	186·57
	Cooch Behar	Dinhatta ...	6·55	40·74	17·32	24·73	26·37	16·98	132·69
		Cooch Behar ...	7·07	47·90	29·08	45·32	29·86	12·49	171·72
		Mickilgunge ...	9·76	47·11	25·75	37·64	19·90	13·01	153·17
		Matabhanga ...	7·48	44·07	40·12	43·35	26·01	14·14	175·17
	Darjeeling Hill.	Buxa ..	10·43	44·09	60·55	51·48	27·54	20·68	214·77
		Siliguri ...	9·60	32·57	69·64	25·81	30·62	13·36	181·60
		Darjeeling ...	6·11	31·32	58·63	30·21	16·09	10·62	152·98
		Kalimpong ...	3·47	21·58	52·06	19·99	15·25	12·44	124·79
		Kurseong ...	10·41	40·37	71·41	37·64	23·15	13·01	195·99

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	To
North Behar.	Purneah ...	Kissengunge ...	3·51	25·42	21·52	27·97	16·2[illegible]	13·32	107
		Arrareah ...	5·07	13·40	24·28	19·91	16·63	6·43	8[illegible]
		Purneah ...	3·44	15·07	19·59	19·12	20·90	6·68	8[illegible]
		Gonawara ...	3·10	8·28	21·07	?	?	5·04	
		Balarampore ...	3·75	16·60	23·14	32 03	14·46	12·75	10[illegible]
		Matiari ...	1·74	13·39	14·80	17·06	?	4·77	
		Kaliaganj ...	5·39	29·15	27·12	28·17	24·69	7·40	12[illegible]
	North Bhagulpore.	Maddapore ...	3·30	13·61	23·50	11·10	7·37	3·23	6[illegible]
		Soopool ...	2·24	8·67	26·31	16·25	9·36	1·50	6[illegible]
		Protapganj ...	1·18	10·79	16·14	11·13	8·00	2·56	4[illegible]
	Durbhunga...	Tajpore ...	1·48	8·78	21·99	11·07	8·45	0·73	5[illegible]
		Durbhunga ...	2·30	11·20	22·58	15·84	5·10	2·37	5[illegible]
		Madhubani ...	3·16	12·63	24·24	17·72	4·27	2·09	6[illegible]
		Bahera ...	2·85	12·53	20·02	8·65	7·33	1·84	5[illegible]
		Roshera ...	1·70	10·60	15·86	14·00	[illegible]·83	2·13	5[illegible]
	Mozufferpore	Sitamarhi ...	2·49	8·37	18·16	14·73	7·30	2·61	5
		Mozufferpore ...	1·43	9·12	23·02	15·59	5·96	1·56	5
		Hajipore ...	3·89	7·58	19·43	9·45	8·29	1·19	4
		Paru ...	1·65	9·62	22·18	18·43	13·93	6·00	7
		Mohua ...	2·53	10·83	17·73	9·64	5·00	0·76	4
		Siuhar ...	3·05	11·25	16·88	9·25	9·75	4·50	5
		Pupri ...	1·52	11·69	20·11	11·39	4·35	1·84	5
	Chumparun	Motihari ...	7·09	11·49	24·30	12·66	10·66	6·46	7
		Bettiah ...	1·60	13·80	22·46	15·18	7·49	4·89	6
		Bagaha ...	0·73	16·67	29·87	20·35	?	3·39	7
		Burhurwa ...	2·97	14·36	20·49	10·69	9·18	2·12	5
	Sarun ...	Gopalgunge ...	1·64	8·35	15·39	17·87	7·39	1·67	5
		Sewan ..	1·71	12·69	17·75	15·47	11·61	0·81	6
		Chuprah ..	2·91	10·06	18·70	10 03	5·54	1·95	4
South Behar.	Shahabad ...	Buxar ...	1·69	9·64	14·74	16·59	8·46	1·80	5
		Dehree ...	Nil	10·32	12·93	14·25	5·26	0·38	4
		Bhubooah ...	Nil	9·76	12·55	10·58	7·91	0·31	4
		Sasseram ...	0·37	9·93	13·55	12·82	6·70	0·94	4
		Arrah ...	1·51	11·94	28·44	12·93	8·92	3·29	6
		Mohaniah ...	Nil	7·00	13·16	9·31	6·60	?	3
	Gya ...	Aurungabad ...	0·34	9·73	14·01	29·87	5·03	0·51	5
		Gya ...	0·90	11·15	21·57	20·95	6·02	0·34	6
		Nowadah ...	1·18	16·67	18·05	14·86	3·80	0·43	5
		Jehanabad ...	2·35	15·15	16·25	14·70	4·57	0·42	5
		Arwal ...	1·56	9·24	18·50	20·20	6·60	?	5
		Daudnagar ...	0·27	3·74	11·99	8·95	4·70	0·20	2
		Sherghati ...	Nil	6·99	9·68	14·46	4·01	1·67	3
		Rajauli ...	Nil	13·04	13·37	14·91	3·48	0·80	4
		Pakri Barawan ...	0·35	9·13	14·00	14·10	3·69	2·97	4
	Patna ...	Patna ...	3·39	7·80	17·41	17·38	4·94	1·02	5
		Dinapore ...	3·23	7·56	14·85	16·29	9·54	1 97	5
		Behar ...	1·07	11·24	15·56	9·99	7·98	1·11	4
		Barrh ...	1·93	7·25	13·76	12·49	7·80	1·25	4
		Bickram ...	1·08	12·82	22·48	14·96	5·63	1·38	5
		Hilsa ...	2·25	14·42	13·70	11·55	7·25	1·07	5
	Monghyr ...	Beegooserai ...	2·60	10·09	14·08	10·59	5·84	2·26	4
		Monghyr ...	4·18	14·50	18·63	9·95	6·80	2·36	5
		Jamui ...	1·20	18·41	21·53	11·99	4·95	2·14	6
		Gogri ...	4·39	13·11	28·30	21·16	7·59	4·34	7
		Sheikpura ...	0·30	14·89	11·64	14·83	4·13	1·97	4
	South Bhagulpore.	Bhagulpore ...	4·47	10·90	17·83	18·62	5·68	5·41	6
		Banka ...	4·31	9·29	12·39	10·02	3·50	3·63	4
		Kolgong ...	3·91	14·82	20·93	10·64	7·89	5·77	6
		Bungaon ..	2·30	11·39	28·29	15·16	?	?	

OROLOGICAL VISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
H BEHAR *ncluded.*	Sonthal Pergunnahs.	Rajmehal ...	3·18	13·89	10·07	11·60	10·61	8·59	57·94
		Godah ...	4·75	10·81	17·18	10·30	3·65	5·66	52·35
		Pakour ...	5·89	22·76	13·40	11·88	10·70	12·19	76·82
		Nya Doomka ...	2·02	14·99	18·11	19·91	6·80	12·35	74·18
		Deoghur ..	1·91	10·65	17·50	9·84	5·35	4·18	49·43
		Jamtara ...	2·10	20·51	16·41	11·27	5·95	18·25	74·49
		Mohasama ...	1·77	14·60	11·65	15·55	3·21	3·28	50·06
		Nanihat .	0·59	6·67	10·31	5·27	4·48	3·66	30·98
	Hazaribagh	Pachamba (*Giridi*)	1·53	18·20	16·38	9·57	6·74	3·08	55·50
		Hazaribagh ...	1·06	8·92	20·09	10·99	7·76	1·33	50·15
		Semtagurah ...	1·07	8·06	14·14	8·33	7·20	0·70	39·50
		Mahudi Hills ...	1·34	4·23	18·78	9·62	7·02	2·37	43·36
		Jhoomra Hills ...	0·40	14·30	20·50	10·10	10·00	1·90	57·20
		Barhi ...	0·77	8·17	17·81	16·03	4·69	3·00	50·47
		Chatra ...	1·70	7·30	17·32	16·05	3·56	2·05	47·98
		Karagdeha ...	2·02	15·58	17·04	13·73	3·08	5·89	57·34
		Ramghar ...	3·90	7·94	11·49	16·60	9·05	2·53	51·51
TIA AGPUR.	Lohardugga	Lohardugga .	0·76	8·34	14·77	22·18	5·93	1·76	53·74
		Ranchee ...	3·27	7·99	13·62	7·76	9·29	2·54	44·47
		Palamow ...	1·48	7·27	18·12	12·87	3·85	0·59	44·18
		Silli ...	3·20	7·20	11·40	8·50	7·80	5·40	43·50
		Balumat ...	0·06	7·13	15·25	17·34	?	1·29	41·07
		Hosseinabad ..	0·15	7·47	9·98	14·31	9·84	Nil	41·75
		Garwah ...	Nil	7·85	9·01	15·64	5·80	Nil	38·30
	Singbhoom	Chyebassa ...	4·25	9·04	9·42	3·48	7·18	1·73	35·10
		Chakradharpore ...	0·15	3·90	11·30	4·06	3·47	1·70	24·58
		Ghatsilla ..	4·43	11·46	16·88	5·53	9·26	5·25	52·81
		Baharagura ...	4·82	15·82	11·05	9·46	9·19	1·43	51·77
	Manbhoom	Purulia ...	3·37	12·98	11·42	8·78	5·59	3·03	45·17
		Gobindpore ...	0·52	11·74	10·14	6·42	6·39	3·57	38·78
		Raghunathpore ...	2·34	14·36	17·75	16·32	8·00	3·34	62·11
		Barrabhoom ...	4·23	8·36	17·60	6·08	5·98	1·90	44·15
		Jhalda ...	2·36	10·29	17·26	18·17	8·82	8·51	65·41
		Chas ...	1·78	14·56	12·00	11·62	5·40	5·32	50·68

TABLE V.

Variation of the Subdivisional actual Monthly Rainfall from the normal average for the months May to October 18

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	T
Orissa ...	Pooree ...	Pooree ...	−0·82	+1·73	+4·90	+2·62	+6·35	+3·85	+
		Khurdah ...	+0·50	+3·64	+10·59	−8·78	+2·87	+2·11	+
		Banpur ...	−1·43	−0·59	+3·08	+1·37	+8·75	+2·96	+
		False Point ...	−1·28	+1·48	−1·88	−2·59	+4·57	+0·44	+
	Cuttack ...	Jagatsingpore ...	−1·71	+2·14	+4·08	−1·32	+8·72	+2·98	+
		Banki ...	+1·06	+1·12	+2·92	+1·00	+4·45	+1·66	+
		Cuttack ...	+0·56	+1·74	+8·75	+2·39	+11·32	+3·09	+
		Kendrapara ...	−0·21	−3·80	−0·54	−4·12	+7·41	+1·37	+
		Jajpore ...	+2·34	−0·90	−1·86	−6·25	+5·07	+1·20	−
	Balasore ...	Chandbali ...	−0·85	+1·98	−1·33	−5·58	+2·70	+2·47	−
		Bhuddruck ...	−0·60	+5·68	−4·85	−5·33	+3·97	+6·71	+
		Sorah ...	+0·21	+8·19	−5·75	−2·06	+7·94	+1·76	+
		Balasore ...	+1·23	+4·89	−6·13	−4·92	+10·26	+2·57	+
		Jellasore ...	+2·32	+4·51	−9·13	−2·89	+11·57	+6·02	+
		Baripodah ...	−0·17	+4·22	−4·84	−2·49	+6·53	+5·04	+
South-West Bengal.	Midnapore...	Contai ...	+5·64	−0·14	−10·65	−7·48	+3·37	+13·52	+
		Saugor Island ...	+1·19	−1·06	−7·91	−6·13	−0·04	+12·70	−
		Tumlook ...	+4·40	+3·78	−1·85	−8·06	+3·87	+2·91	+
		Midnapore ...	+0·49	+7·98	−7·86	−6·80	−0·39	+0·18	−
		Ghattal ...	−0·60	+2·78	−2·05	−11·80	+0·97	−1·34	−
		Garbetta ...	−0·60	+4·11	+1·69	−10·14	−0·02	+1·02	−
	24-Pergunnahs ...	Diamond Harbour ...	+1·53	+0·41	−4·27	−2·47	+1·33	+6·72	+
		Alipore Jail ...	−0·59	+4·14	−1·82	−4·08	+2·52	+5·38	+
		Barrackpore ...	+0·42	+2·93	−3·73	−4·26	+1·69	+5·08	+
		Dum-Dum ...	−2·43	+3·68	−5·30	−4·78	+2·98	+7·76	+
		Baraset ...	+0·91	+0·90	−3·92	−3·04	+0·67	+6·81	+
		Buseerhat ...	−0·01	+3·56	−1·51	−2·49	−3·39	+6·66	+
	Howrah ...	Howrah ...	−1·92	+2·77	−3·99	−4·07	+0·85	+2·93	−
		Mohesroka (*Ootooberiah*). ...	−0·47	+16·22	−6·98	−7·54	+1·68	+1·95	+
	Hooghly ...	Serampore ...	+0·48	+3·15	−4·05	−3·55	+2·63	+4·31	+
		Hooghly ...	−1·31	+5·08	−5·84	−5·48	+4·89	+2·22	−
		Jehanabad ...	+0·07	+6·75	+1·03	−7·37	−5·24	−0·95	−
	Burdwan ...	Culna ...	−1·72	+9·71	+0·62	−5·43	+4·37	+0·23	+
		Burdwan ...	−2·09	+11·65	+7·17	−5·22	+2·74	−0·90	+1
		Cutwa ...	−1·90	+11·88	+1·44	−6·63	+5·84	+3·64	+1
		Raneegunge ...	−0·61	+9·46	−0·59	−4·20	+0·89	+5·59	+1
	Bankoora ...	Bankoora ...	+1·19	+2·48	+7·92	−8·11	+2·72	+0·24	+
		Bishenpore ...	+1·63	+4·94	−1·16	−10·55	+0·73	+1·79	−
		Maliara ...	−1·59	+11·64	+0·84	−5·88	+1·01	+2·25	+
		Khatra ...	+0·17	−2·24	−4·34	−9·00	−2·37	+2·10	−1
		Raipur ...	+2·41	+1·39	+2·96	−9·50	+0·23	+2·36	−
	Beerbhoom...	Bh. Soory ...	−2·13	+6·26	+8·28	−4·53	−1·20	+2·78	+
		Hetampore ...	−2·25	+6·70	−0·40	−6·78	+1·26	+6·32	+
		Rampore Haut...	−0·69	+7·65	+4·52	+2·73	+1·67	+4·39	+2
	Nuddea ...	Ranaghat ...	−2·17	+5·64	+0·99	−5·38	+4·07	+3·86	+
		Kishnaghur ...	−1·17	+4·79	+2·75	−2·18	+4·29	+3·14	+1
		Chooadanga ...	−3·27	+1·21	−1·33	−4·27	−1·76	+3·92	−
		Meherpore ...	−3·62	+2·61	+3·34	−3·62	+1·14	+9·74	+
		Kooshtea ...	+0·32	−0·98	−0·22	−3·07	+0·19	+2·26	−

OROLOGICAL VISION.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
	Khoolna ...	Satkhira ...	+2·46	+1·27	−2·88	−0·96	−1·89	+2·59	+0·59
		Bagirhat ...	−0·47	+8·11	+0·67	−4·25	−4·04	+1·32	+1·34
		Khoolna ...	−0·60	+3·20	+0·70	−4·93	−4·72	+3·92	−2·43
ITH-EST ENGAL *concld.*	Jessore ...	Narail ...	+1·52	+3·63	−1·22	−2·08	−5·25	+8·87	+5·47
		Jessore ...	−2·12	+6·79	−2·60	+0·83	−3·17	+4·40	+4·13
		Jhenidah ...	−2·09	−1·91	+10·54	−4·02	−1·58	+1·37	+2·31
		Magoora ...	−1·53	+0·23	−1·93	+1·25	−5·51	+1·44	−6·05
		Bongong ...	−1·08	+0·90	−2·61	−6·38	−0·48	+3·90	−5·75
	Moorshedabad ...	Kandi ...	−1·00	+3·04	+6·60	+1·52	+3·80	+1·11	+15·07
		Berhampore ...	−3·11	+1·31	+10·11	+0·38	−1·11	+2·41	+9·99
		Lalbagh ...	−2·78	+2·05	+12·44	−1·85	−0·46	+3·33	+12·73
		Azimgunge ...	+0·21	+4·46	+3·42	−3·35	+0·40	+1·93	+7·07
		Jungipore ..	−3·86	+3·95	+0·68	−1·08	−3·11	+4·97	+1·55
		Lalgola ...	+1·36	+1·41	+6·30	−1·26	+1·07	+5·17	+14·05
	Chittagong ..	Cox's Bazar ...	−3·03	+1·01	+3·81	−1·61	−2·92	−4·49	−7·23
		Chittagong ...	−6·70	−6·45	+29·15	+1·20	−2·74	−1·58	+12·88
	Chittagong Hill Tracts.	Rangamati ...	−2·31	−3·91	+2·18	−1·80	−4·64	−3·25	−13·73
		Ruma ...	+1·79	−3·99	+8·93	−1·76	−1·59	−2·39	+0·99
	Backergunge	Patuakhally ...	−1·92	−4·16	+0·15	−1·99	−4·60	+3·38	−9·14
		Perozepore ...	−1·15	+1·96	+2·11	−6·68	−3·98	−0·32	−8·06
		Burrisal ...	−0·52	+1·83	+1·49	−4·67	−4·01	+2·29	−3·59
		Bhola ...	−0·04	−8·58	+0·55	−2·52	−7·30	+0·55	−17·34
	Noakholly ..	Noakholly ...	+1·43	−6·90	+3·55	−2·88	−3·39	+2·40	−5·79
		Fenny ...	−0·09	−3·43	+3·02	+3·95	−6·85	+1·39	−2·01
F BEN-AL.	Furreedpore	Madaripore ...	−3·10	−5·47	−1·58	−4·58	−6·22	+4·69	−16·26
		Furreedpore ...	−3·22	−1·98	−1·65	+2·26	−5·35	+3·06	−6·88
		Goalundo ...	−1·24	−2·35	−0·49	−3·50	−1·94	+1·89	−7·63
	Dacca ...	Munshigunge ...	+3·06	−2·37	−2·17	−2·72	−8·77	−1·07	−14·04
		Dacca ...	+4·14	−1·92	+2·76	−1·09	−7·97	+0·97	−3·11
		Naraingunge ...	+3·85	−1·14	+2·55	+1·96	−7·31	−1·04	−1·13
		Manickgunge ...	−1·51	+5·85	−0·29	+0·77	−1·01	+3·45	+7·26
	Hill Tipperah	Agartola ...	+1·84	+1·97	+5·01	−5·86	−1·83	?	?
	Tipperah ...	Comilla ...	+0·07	−4·42	+3·27	−4·04	−6·59	+2·97	−8·74
		Chandpore ...	+0·40	−1·39	−2·29	−6·78	−7·28	−1·36	−18·70
		Brahmunberia ...	−0·73	−2·23	+5·38	−3·35	−6·69	+0·68	−6·94
	Mymensingh	Kishoregunge ...	+0·99	−0·56	+0·88	+1·73	−4·26	+0·92	−0·30
		Atia (*Tangail*) ...	+7·93	−1·76	−0·07	−3·77	−4·10	+4·05	+1·78
		Mymensingh ...	−1·09	−0·13	+3·28	−1·62	−4·17	+3·49	−0·24
		Jamalpore ...	+0·79	+7·56	+3·68	−3·50	+0·40	+5·43	+13·36
		Netrokona ...	−1·88	+4·03	+7·91	+1·30	−3·08	+3·65	+11·93
	Pubna ...	Pubna ...	−1·99	+0·21	−1·94	−3·19	−2·21	−0·43	−9·97
		Serajgunge ...	+3·31	−1·44	+1·49	−2·50	+6·45	+2·82	+10·13
RTH BENGAL.	Bogra ...	Sherpore ...	−3·64	+4·41	+2·16	+2·43	+7·65	+6·23	+19·24
		Nowkhilla ...	+2·44	−0·49	+3·57	+0·86	+2·08	+5·42	+13·88
		Bogra ...	−3·92	−1·29	−2·01	+4·82	+6·68	+7·53	+11·81
		Panchbibi ...	−1·87	+12·24	−2·27	+1·36	+8·05	+9·06	+26·57
	Rajshahye ...	Beauleah ...	−1·90	+6·52	+11·18	−3·83	−0·03	+5·66	+17·60
		Nattore ...	+0·56	+11·30	+6·03	−2·16	+9·09	+5·74	+30·56
		Naogaon ...	+0·66	+1·95	+5·05	−1·85	+1·02	+6·42	+13·25
	Maldah ...	Maldah ...	+0·85	+1·67	−0·81	+8·37	+3·65	+2·64	+16·37
		Chanchal ...	−0·25	−0·63	+0·38	+0·82	+1·22	+5·31	+6·85

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Tot
North Bengal —*concld.*	Dinagepore	Mohadebpore ..	—0·12	+1·11	+6·17	—5·15	+6·4	+5·51	+13
		Churamon ...	+0·72	+5·64	+4·35	+5·75	+3·53	+6·75	+26
		Raigunge ...	—1·99	+3·28	+6·53	+11·70	+5·40	+10·21	+35
		Dinagepore ...	+0·59	+0·97	+1·89	+4·84	+1·38	+10·06	+19
		Baloorghat ...	—0·38	+2·97	+3·76	+4·12	+10·62	+6·22	+27
	Rungpore ...	Bhawanigunge (*Gyabanda*).	+1·58	+8·09	+4·46	+5·67	+30·45	+15·37	+6
		Rungpore ...	—1·84	+4·06	—2·04	—1·78	+10·50	+15·19	+2
		Kurigram ...	—6·29	+7·00	—0·45	+0·57	+6·36	+13·39	+2
		Bagdogra (*Nilphamari*).	—3·91	+6·83	+1·41	+5·90	+7·02	+11·48	+2
	Julpigoree ...	Julpigoree ...	—4·01	+11·70	+15·40	+5·16	—2·32	+13·04	+3
	Cooch Behar	Dinhatta ...	—7·82	+9·51	+1·13	+9·03	+5·17	+12·24	+2
		Cooch Behar ...	—7·50	+11·28	+6·73	+24·29	+8·40	+7·28	+5
		Mickligunge ...	—3·25	+19·60	+4·51	+15·62	—2·99	+8·80	+4
		Matabhanga ...	—5·48	+11·84	+18·94	+21·00	+3·27	+8·90	+5
	Darjeeling Hill.	Buxa ...	—10·50	—0·10	+12·87	+7·88	—4·31	+10·72	+1
		Siliguri ...	+0·69	+5·72	+36·78	+3·48	+13·73	+7·89	+6
		Darjeeling ...	—1·46	+7·30	+28·27	+3·54	—1·33	+4·52	+4
		Kalimpong ...	—2·17	+2·53	+25·29	—0·37	+4·18	+7·43	+3
North Behar.	Purneah ...	Kissengunge ...	—2·91	+10·03	+5·02	+12·26	+2·42	+10·19	+3
		Arrareah ...	—0·70	+0·41	+8·10	+6·41	+3·35	+3·10	+2
		Purneah ...	—1·05	+4·21	+5·46	+4·72	+7·43	+2·92	+2
	North Bhagulpore.	Maddapore ...	—1·01	+5·28	+11·49	—0·76	—2·92	—1·09	+
		Soopool ...	—1·74	—0·30	+14·97	+4·37	—0·04	—1·22	+
	Durbhunga	Tajpore ...	—0·79	+1·32	+9·68	+0·58	+0·45	—2·27	+
		Durbhunga ...	—0·32	+3·36	+10·56	+4·70	—4·23	—0·45	+
		Madhubani ...	+0·13	+4·18	+13·40	+7·25	—5·63	—0·39	+
	Mozufferpore	Sitamarhi ...	—0·15	+0·53	+7·29	+5·21	—1·95	—0·04	+
		Mozufferpore ...	—0·93	+2·31	+12·08	+5·34	—2·27	—1·31	+
		Hajipore ...	+1·86	+1·04	+7·22	—1·19	+1·19	—2·57	-
	Chumparun	Motihari ...	+4·65	+3·24	+13·34	+0·43	+1·97	+2·90	+
		Bettiah ...	—1·06	+5·45	+9·47	+3·06	—1·83	+1·51	+
	Sarun ...	Gopalgunge ...	—0·91	+2·22	+2·64	+7·01	+0·03	—2·70	.
		Sewan ...	—0·09	+6·03	+6·07	+4·58	+2·78	—3·00	+
		Chuprah ...	+1·47	+3·89	+7·85	+0·68	—1·67	—0·98	+
South Behar.	Shahabad ...	Buxar ...	+0·70	+4·88	+3·67	+6·53	+1·03	—1·40	+
		Dehree ...	—1·21	+5·67	+1·68	+1·45	—2·11	—2·20	.
		Bhubooah ...	—1·12	+4·70	+0·18	—1·42	+1·21	—2·80	
		Sasseram ...	—0·75	+4·93	+1·97	+0·57	—0·25	—2·54	
		Arrah ...	—0·02	+5·49	+15·82	+2·58	+0·57	+0·35	+
	Gya ...	Aurungabad ...	—1·29	+4·52	+1·62	+16·89	—2·12	—2·18	+
		Gya ...	—0·35	+5·02	+9·76	+10·34	—1·13	—2·00	+
		Nowadah ...	—0·73	+11·31	+6·18	+3·38	—3·04	—2·07	+
		Jehanabad ...	+0·70	+10·24	+4·02	+1·80	—1·15	—2·91	+
	Patna ...	Patna ...	+1·65	+1·08	+6·81	+7·38	—2·93	—1·79	-
		Dinapore ...	+1·58	+1·16	+3·14	+4·79	+2·92	—1·03	-
		Behar ...	—1·09	+5·07	+2·52	—1·34	+1·60	—1·95	
		Barrh ...	—0·39	+2·37	+1·03	+2·69	—0·08	—1·78	
	Monghyr ...	Beegooserai ...	+0·25	+4·08	+2·69	+0·26	—1·45	—0·74	
		Monghyr ...	+2·06	+7·91	+6·91	—0·77	—1·64	—1·45	
		Jamui ...	—0·93	+12·06	+9·23	—0·15	—2·34	—0·39	

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Total.
South Behar —*concld.*	South Bhagulpore.	Bhagulpore ...	+1·80	+2·76	+6·27	+7·82	—2·24	+1·48	+17·89
		Banka ...	+1·74	+1·79	+1·97	—1·53	—4·53	+0·20	—0·36
	Sonthal Pergunnahs.	Rajmehal ...	−1·75	+3·87	—2·84	+0·97	—1·25	+5·56	+4·56
		Godda ...	+1·20	+4·11	+5·97	−1·65	—5·88	+2·72	+6·47
		Pakour ...	+1·21	+11·93	−0·16	—1·24	—2·46	+7·74	+17·02
		Nya Doomka ..	—1·61	+6·20	+4·62	+5·84	—3·47	+8·47	+20·05
		Deoghur ..	—1·10	+2·53	+3·86	—2·53	—3·19	—0·18	—0·61
		Jamtara ...	—1·29	+12·61	+2·87	—1·97	—1·88	+15·22	+25·56
Chutia Nagpur.	Hazaribagh	Pachamba ...	−0·72	+10·36	+3·09	−3·37	—1·92	—0·13	+7·31
		Hazaribagh ...	—0·66	+0·98	+7·08	−2·15	—0·06	—1·96	+3·23
		Semtagurah ...	−1·51	+0·45	+1·36	—3·95	—0·84	—2·11	—6·60
		Mahudi Hills ...	—0·80	—2·82	+5·95	—4·33	—2·50	—0·09	—4·59
		Jhoomrah Hills	—2·22	+3·97	+3·63	—6·28	—0·82	—0·93	—2·65
	Lohardugga	Lohardugga ...	—1·51	+0·37	+2·28	+6·97	—3·23	—0·52	+4·36
		Ranchee ...	+0·91	+0·35	+1·20	—4·51	+1·10	—0·51	—1·46
		Palamow ...	+0·13	+1·36	+5·21	+0·84	—4·10	—2·07	+1·37
	Singbhoom ...	Chyebassa ...	+0·43	+1·03	—4·58	—10·30	−1·20	—1·21	—15·83
	Manbhoom...	Purulia ...	+0·61	+4·21	—0·02	−4·18	—2·21	—0·57	—2·16
		Gobindpore ...	—1·48	+4·74	—1·73	−6·07	—0·83	—0·43	—5·80

TABLE VI.

Percentage variation of the monthly Rainfall of the Sub divisional Rainfall-registering Stations in Bengal, from the normal average rainfall for the months of May to October 1890.

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Total
Orissa	Pooree	Pooree	−31	+22	+49	+24	+64	+47	+
		Khurdah	+15	+40	+84	−70	+28	+32	+
		Banpur	−8	−8	+28	+11	+89	+43	+
		False Point	−35	+17	−13	−12	+41	+4	+
	Cuttack	Jagatsingpore	−62	+28	+37	−12	+101	+46	+
		Banki	+51	+11	+25	+10	+47	+34	+
		Cuttack	+17	+17	+71	+21	+117	+57	+
		Kendrapara	−5	−45	−5	−31	−81	+23	
		Jajpore	+54	−9	−14	−50	+51	+23	−
	Balasore	Chandbali	−17	+27	−11	−47	+24	+41	−
		Bhuddruck	−12	+65	−40	−47	+38	+151	+
		Sorah	+4	+124	−48	−18	+71	+34	+
		Balasore	+25	+50	−52	−38	+81	+39	+
		Jellasore	+64	+57	−67	−25	+110	+139	+
		Baripodah	−4	+42	−39	−20	+55	+115	+
South-West Bengal.	Midnapore	Contai	+128	−1	−74	−53	+29	+167	+
		Saugor Island	+27	−10	−31	−38	0	+140	−
		Tumlook	+94	+42	−15	−55	+46	+69	+
		Midnapore	+9	+84	−57	−55	−5	+4	−
		Ghatal	−12	+28	−15	−73	+11	−40	−
		Garbetta	−16	+53	+12	−77	−0	+40	−
	24-Pergunnahs.	Diamond Harbour	+31	+4	−29	−16	+12	+131	+
		Alipore Jail	−11	+42	−14	−29	+25	+125	+
		Barrackpore	+8	+33	−30	−34	+25	+153	+
		Dum-Dum	−41	+38	−44	−36	+34	+181	+
		Baraset	+16	+9	−35	−24	+7	+156	+
		Buseerhat	0	+33	−12	−19	−39	+15	+
	Howrah	Howrah	−38	+26	−32	−30	+9	+70	−
		Mohesreka (*Oolooberiah.*)	−8	+18	−52	−51	+20	+58	+
	Hooghly	Serampore	+10	+33	−31	−27	+33	+105	+
		Hooghly	−23	+47	−48	−42	+64	+56	−
		Jehanabad	+1	+73	+8	−45	−54	−23	−
	Burdwan	Culna	−36	+116	+5	−45	+67	+6	+
		Burdwan	−41	+124	+59	−42	+33	−21	+
		Cutwa	−36	+120	+14	−52	+71	+95	+
		Raneegunge	−20	+112	−4	−31	+12	+172	+
	Bankoora	Bankoora	+35	+26	+62	−65	+32	+5	+
		Bishenpore	+33	+47	−9	−75	+8	+63	−
		Maliara	−57	+113	+5	−44	+15	+61	+
		Khatra	+5	−20	−30	−68	−25	+54	−
		Raipur	+57	+16	+24	−67	+3	+63	
	Beerbhoom	Bh. Soory	−65	+62	+66	−34	−12	+78	+
		Hetampore	−69	+61	−3	−52	+12	+222	-
		Rampore Haut	−20	+82	+41	+20	+15	+119	+
	Nuddea	Ranaghat	−43	+60	+9	−41	+58	+106	+
		Kishnaghur	−18	+50	+27	−19	+55	+69	+
		Chooadanga	−42	+14	−13	−34	−18	+92	−
		Meherpore	−61	+28	+33	−29	+14	+297	+
		Koushtea	+4	−9	−2	−25	+2	+48	-

...OGICAL ...ON.	District.	Station.	May.	June.	July.	August.	September.	October.	TOTAL.
	Khoolna ...	Satkhira ...	+41	+11	—21	—7	—21	+58	+1
		Bagirhat ...	—7	+63	+4	—33	—42	+26	+2
		Khoolna ..	—9	+25	+5	—40	—49	+96	—4
H-	Jessore ...	Narail ...	+23	+33	—13	—19	—74	+28	+12
		Jessore ...	—28	+51	—22	+7	—34	+82	+7
		Jhenidah ...	—32	—15	+108	—32	—18	+30	+4
		Magoora ...	—19	+2	—19	+13	—69	+41	—12
		Bongong ...	—19	+9	—23	—43	—5	+85	—11
	Moorshedabad.	Kandi ...	—23	+32	+52	+13	+43	+30	+30
		Berhampore ...	—64	+14	+97	+4	—12	+46	+20
		Lalbagh ...	—58	+23	+117	—15	—5	+78	+25
		Azimgunge ...	+5	+50	+32	—27	+4	+39	+14
		Jungipore ..	—80	+46	+6	—9	—29	+142	+3
		Lalgola ...	+25	+15	+56	—11	+11	+125	+27
	Chittagong...	Cox's Bazar ...	—29	+3	+9	—6	—19	—57	—5
		Chittagong ...	—73	—28	+131	+6	—20	—26	+14
	Chittagong Hill Tracts.	Rangamati ...	—23	—22	+12	—10	—37	—47	—16
		Ruma ...	+21	—21	+51	—11	—13	—32	+1
	Backergunge	Patuakhally ...	—24	—19	+1	—11	—36	+55	—10
		Perozepore ...	—17	+12	+13	—44	—36	—6	—11
		Burrisal ...	—7	+11	+9	—36	—35	+48	—5
		Bhola ...	—1	—42	+3	—13	—62	+9	—21
	Noakholly ...	Noakholly ...	+15	—21	+17	—12	—21	+31	—6
		Fenny ...	—1	—13	+13	+12	—43	+23	—2
EN-	Furreedpore	Madaripore ...	—35	—42	—13	—38	—75	+117	—28
		Furreedpore ...	—38	—15	—13	+19	—57	+71	—11
		Goalundo ...	—17	—21	—4	—30	—24	+41	—14
	Dacca ...	Munshigunge ...	+34	—15	—13	—18	—72	—20	—19
		Dacca ...	+46	—15	+21	—9	—80	+19	—5
		Naraingunge ...	+44	—8	+16	+16	—79	—24	—2
		Manickgunge ...	—17	+61	—2	+7	—13	+91	+14
	Hill Tipperah...	Agartola ...	+17	+14	+43	—43	—18		
	Tipperah ...	Comilla ...	+1	—24	+12	—24	—58	+57	—19
		Chandpore ...	+5	—8	—15	—35	—62	—21	—24
		Brahmunberia ...	—7	—14	+48	—26	—58	+14	—10
	Mymensingh	Kishoregunge ...	+9	—3	+7	+13	—35	+18	0
		Atia (*Tangail*) ...	+115	—14	—1	—32	—49	+83	+3
		Mymensingh ...	—9	—1	+20	—11	—30	+65	0
		Jamalpore ...	+9	+50	+30	—26	+3	+112	+19
		Netrokona ...	—17	+18	+47	+8	—23	+50	+14
	Pubna ...	Pubna ...	—29	—2	—18	—25	—20	—9	—17
		Serajgunge ...	+42	—18	+14	—22	+68	+66	+18
TH BAL.	Bogra ...	Sherpore ...	—43	+38	+17	+20	+77	+158	+33
		Nowkhilla ...	+31	—4	+31	+8	+22	+114	+24
		Bogra ...	—45	—9	—13	+39	+57	+166	+17
		Panchbibi ...	—24	+111	—18	+12	+77	+227	+47
	Rajshahye ...	Beauleah ...	—34	+62	+97	—36	0	+119	+33
		Nattore ...	+ 8	+118	+49	—18	+77	+135	+53
		Naogaen ...	+12	+14	+45	—21	+8	+200	+24
	Maldah ...	Maldah ...	+22	+17	—8	+31	+34	+62	+33
		Chanchal ...	—5	—5	+3	+6	+12	+176	+12

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Tot
North Bengal—*concluded.*	Dinagepore	Mohadebpore ...	−2	+9	+57	−41	+[illegible]	+184	+
		Churamon ...	+15	+45	+35	+51	+27	+223	+
		Raigunge ...	−31	+24	+51	+93	+52	+287	+
		Dinagepore ...	+7	+6	+13	+37	+11	+213	+
		Baloorghat ...	−6	+23	+36	+43	+87	+149	+
	Rungpore ...	Bhawanigunge (*Gyabanda*) ...	+17	+52	+38	+55	+261	+318	+1
		Rungpore ...	−17	+19	−13	−13	+80	+319	+
		Kurigram ...	−46	+29	−3	+5	+50	+320	+
		Bagdogra (*Nilphamari*) ...	−33	+27	+10	+32	+47	+295	+
	Julpigoree ...	Julpigoree ...	−35	+40	+55	+20	−10	+25	+
	Cooch Behar	Dinhatta ...	−54	+30	+7	+77	+24	+259	+
		Cooch Behar ...	−51	+31	+30	+115	+39	+140	+
		Mickligunge ...	−25	+71	+21	+71	−13	+209	+
		Matabhanga ...	−42	+37	+89	+94	+14	+17	+
	Darjeeling Hill	Buxa ...	−51	0	+27	+18	−14	+108	-
		Siliguri ...	+8	+21	+112	+16	+81	+144	+
		Darjeeling ...	−19	+3	+93	+13	−8	+74	+
		Kalimpong ...	−39	+13	+94	−2	+38	+148	+
North Behar.	Purneah ...	Kissengunge ...	−45	+65	+30	+78	+18	+326	+
		Arrareah ...	−12	+3	+50	+48	+25	+93	+
		Purneah ...	−24	+39	+39	+33	+55	+78	+
	North Bhagulpore.	Maddapore ...	−24	+63	+96	−6	−28	−25	+
		Soopool ...	−44	−3	+132	+37	−1	−41	+
	Durbhunga	Tajpore ...	−35	+18	+79	+6	+5	−76	+
		Durbhunga ...	−12	+43	+88	+42	−45	−16	+
		Madhubani ...	+4	+50	+124	+69	−57	−16	+
	Mozufferpore	Sitamarhi ...	−6	+7	+67	+55	−21	−2	+
		Mozufferpore ...	−39	+34	+110	+52	−28	−46	+
		Hajipore ...	+92	+16	+59	−11	+17	−69	+
	Chumparun	Motihari ...	+192	+39	+122	+4	+23	+81	+
		Bettiah ...	−40	+65	+73	+25	−20	+45	+
	Sarun ...	Gopalgunge ...	−36	+34	+21	+65	+1	−62	+
		Sewan ...	−5	+90	+52	+42	+32	−79	+
		Chuprah ...	+102	+63	+72	+7	−23	−34	
South Behar.	Shahabad ...	Buxar ...	+71	+103	+33	+65	+14	−44	+
		Dehree ...	−100	+12	+15	+11	−29	−85	.
		Bhubooah ...	−100	+9	+1	−12	+18	−90	.
		Sasseram ...	−67	+99	+17	+5	−4	−73	+
		Arrah ...	−1	+85	+46	+25	+7	+12	+
	Gya ...	Aurungabad ...	−79	+87	+13	+13	−30	−81	+
		Gya ...	−28	+82	+83	+98	−16	−86	+
		Nowadah ...	−38	+211	+52	+21	−44	−83	+
		Jehanabad ...	+43	+209	+33	+14	−20	−88	+
	Patna ...	Patna ...	+95	+16	+64	+74	−37	−64	+
		Dinapore ...	+96	+18	+27	+33	+44	−34	+
		Behar ...	−50	+62	+19	−12	+25	−64	+
		Barrh ...	−17	+49	+8	+28	−1	−59	.
	Monghyr ...	Begoosarai ...	+9	+68	+24	+3	−20	−25	+
		Monghyr ...	+97	+120	+59	−8	−20	−30	+
		Jamui ...	−44	+190	+75	−1	−32	−11	+

Meteorological Division.	District.	Station.	May.	June.	July.	August.	September.	October.	Total.
South Behar. —*concld.*	South Bhagulpore.	Bhagulpore ...	+68	+34	+54	+73	—28	+88	+40
		Banka ...	+68	+24	+19	—13	—56	+6	—1
	Sonthal Pergunnahs.	Rajmehal ...	—36	+39	—22	+10	—11	+183	+9
		Godda ...	+34	+61	+53	—14	—62	+93	+14
		Pakour ...	+26	+11	—1	—9	—19	+174	+28
		Nya Doomka ...	—44	+71	+34	+41	—34	+218	+37
		Deoghur ...	—36	+31	+28	—20	—37	—4	—1
		Jamtara ...	—38	+160	+21	—15	—24	+502	+52
Chutia Nagpur.	Hazaribagh	Pachamba (*Giridi.*) ...	—32	+132	+23	—26	—22	—4	+15
		Hazaribagh ...	—38	+12	+54	—16	—1	—60	+7
		Semtagurah ...	—58	+6	+11	—32	—10	—75	—14
		Mahudi Hills ...	—37	—40	+4	—31	—26	—4	—10
		Jhoomra Hills ...	—85	+39	+22	—38	—8	—33	—4
	Lohardugga	Lohardugga ...	—66	+5	+18	+46	+35	—23	+9
		Ranchee ...	+39	+5	+10	—37	+13	—17	—3
		Palamow ...	+10	+23	+40	+7	—1	—78	+3
	Singbhoom ...	Chyebassa ...	+11	+13	—33	—75	—14	—41	—31
	Manbhoom	Purulia ...	+22	+48	0	—32	—28	—16	—5
		Gobindpore ..	—74	+68	—15	—49	—11	—11	—13

METEOROLOGICAL OFFICE, BENGAL,
The 13th December 1889.

A. PEDLER,
Meteorological Reporter to the Govt. of Bengal.

LIBERALITY OF THE RAJAH OF DASPALLA IN THE TRIBUTARY STATES OF ORISSA.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 29th December, 1890.

RESOLUTION.

READ—

A letter from the Superintendent of Tributary States, Orissa, No. 2111P, dated the 13th November 1890, regarding the offer of the Rajah of the Tributary State of Daspalla to found a scholarship.

Read also—

A letter from the Director of Public Instruction, No. 6900, dated the 14th December 1890, reporting on this subject.

The Superintendent of the Tributary States of Orissa has reported that the Rajah of Daspalla has offered to make over Rs. 1,200 in order to establish, out of the interest of that sum, a scholarship of Rs. 4 a month awardable to a student of the Daspalla State Middle Vernacular School after passing the Middle Vernacular Scholarship Examination, the scholarship being called the "Worsley Scholarship," and being tenable for four years in the Ravenshaw Collegiate School, Cuttack. The Lieutenant-Governor is pleased to accept the offer, and tenders his thanks to the Rajah for his liberality. The Superintendent of the Tributary States will be the administrator of the fund, and the Rajah should be informed that his remittance to the Treasury should cover the market value of the note, plus 5 per cent. to cover incidental charges attendant on the purchase, it being understood that the 5 per cent. deposit is an advance subject to account.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Superintendent of the Tributary States, Orissa, for information and communication to the Rajah of Daspalla, and that a copy be forwarded to the Director of Public Instruction for information.

Ordered also that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 27th December, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	BENGAL.		
	Western Districts.		
BURDWAN DIVS. 1	Burdwan Dec. 27, '90	Nil	Weather—bright and cold. *Amun* nearly all harvested. *Rubbi* looking well. Prices of common rice :— Srs. Sudder ... ... 18½ Cutwa ... ... 18 1/16 Ranigange ... ... 18 Culna ... ... 18¼ } per rupee.
2	Bankoora ,, 27, '90	Nil	Weather—seasonable, but not so cold as it should be. Harvesting of *amun* nearly finished. *Rubbi* and sugarcane doing well. Common rice selling at 20 seers per rupee at Sudder and 20½ seers at Bissenpore.
3	Birbhum ,, 27, '90	Nil	Weather—bright and cold. Winter rice now practically gathered in. Price of common rice unchanged at from 19 to 22 seers per rupee.
4	Midnapur ,, 27, '90	Nil	Weather—cool and fair. Reaping of paddy nearly finished; total outturn above average. *Rubbi* and indigo doing well. Prices of common rice :— Srs. Sudder ... ... 18 Contai ... ... 18 Tumlook ... ... 17½ Ghatal ... ... 17 } per rupee.
5	Hooghly ,, 27, '90	Nil	Weather—cold. Harvesting of *amun* paddy nearly finished. Winter crops look healthy. Prices of common rice :— Srs. Sudder ... ... 14 Serampore ... ... 14 Jehanabad .. .. 16¾ } per rupee.
6	Howrah ,, 27, '90	Nil	Weather—seasonable. Harvesting of winter paddy continues; outturn good. Price of common rice 14½ seers per rupee.
	Central Districts.		
PRESIDENCY DIVS. 7	24-Pergns. Dec. 30, '90	Nil	Weather—cold and seasonable. Harvesting of winter rice continues with favourable outturn. *Rubbi* crops progressing well. Prices stationary.
8	Nuddea ,, 27, '90	Nil	Weather—seasonable. Harvesting of *amun* rice almost over, and that of *kalai*, *mung*, and *til* going on. Prospects fairly good.
9	Khoolna ,, 27, '90	Nil	Weather—seasonable. Reaping of *chhotán amun* nearly completed, and that of *boran* has commenced; outturn very good in all parts of the district except in the inundated tracts. Prices are slowly falling. Winter crops doing well except in parts of the Satkhira subdivision where they have been damaged by locusts. *Boro* is being transplanted.
10	Jessore ,, 27, '90	Nil	Weather—seasonable. Harvesting of *amun* in progress. Prospects of winter crops good Prices of rice stationary.
11	Moorshedabad ,, 27, '90	Nil	Weather—cold. *Amun* is still being harvested. Prospects of *rubbi* favourable.
RAJSHAHYE DIVS. 12	Dinagepur ,, 27, '90	Nil	Weather—seasonable. Prospects of crops good. Price of rice as before.
13	Rajshahye ,, 27, '90	Nil	Weather—seasonable. Harvesting of *amun* paddy and sugarcane in progress. Condition of winter crops good. Tobacco transplantation almost finished. Ganja plants thriving.
14	Rungpur ,, 27, '90	Nil	Weather—cold with east wind. Harvesting of *amun* still going on. Some damage has been done by insect pest. Prospects on the whole continue good.
15	Bogra ,, 27, '90	Nil.	Weather—seasonable. Slight injury to the winter rice crop is reported from thana Shibgunge (north) by caterpillars; but the harvest is going on with good outturn, and the spring crops are doing well. Common rice is selling at 14½ seers per rupee.
16	Pubna ,, 27, '90	Nil	Weather—clear. Rain wanted for mustard; prospects otherwise good.
17	Darjeeling ,, 27, '90	Nil	Weather—cold and misty. Winter rice, *marua*, and *phafar* are being harvested. Potato doing fairly well. Prospects good.
18	Julpigoree ,, 27, '90	Nil	Weather—cool and cloudy with morning fogs. Prospects of crops continue satisfactory. Harvesting of *haimanti* paddy going on. Price of rice stationary.

No.	District and date of return.	Rainfall at sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—*concluded*.			
	Eastern Districts.		
Dacca Divn. 19	Dacca Dec. 27, '90	Nil	Weather—seasonably cold and fine. *Amun* and *roachia* paddy being harvested. Winter crops doing well. Price of common rice from 18 to 18 seers per rupee.
20	Furreedpur ,, 27, '90	Nil	Weather—seasonably cold and bright. Harvesting of *amun* continues. Prospects of winter crops fair. Coarse rice selling at from 17 to 18 seers per rupee
21	Backergunge ,, 27, '90	Nil	Weather—seasonable. Prospects of crops fair. New common rice is selling at from 15 to 18 seers per rupee.
22	Mymensingh ,, 27, '90	Nil	Weather—cold. Prospects of crops good. Harvesting of winter rice continues. Rice selling at 16 seers per rupee.
Chittagong Divn. 23	Chittagong ,, 30, '90	Nil	Weather—seasonable. Harvesting of *amun* commenced; very good outturn expected. Vegetable crop thriving. Prices steady.
24	Noakholly ,, 27, '90	Nil	Weather—seasonable. Harvesting of *amun* continues. *Rubbi* crops progressing. Price of good rice is varying from 15 to 19 seers and coarse rice from 16 to 21 seers per rupee in the different parts of the district.
25	Tipperah ,, 27, '90	Nil	Weather—seasonable. Cutting of *amun* paddy over. Cold-weather crops prospering.
26	Chittagong Hill Tracts. 25, '90	Nil	Weather—seasonable; very cold throughout the week. Harvesting of cotton nearly at an end. Gathering of late rice continues. Mustard, tobacco, and other cold-weather crops progressing. Common rice is being sold at 11 seers 6¼ chittacks per rupee.
BEHAR.			
Patna Divn. 27	Patna ,, 27, '90	Nil	Weather—cold. Harvesting of paddy and *jowar* in progress. *Rubbi* crops growing well, but rain wanted. Prospects of poppy continue good. Prices of food-grains show a tendency to fall.
28	Gya ,, 27, '90	Nil	Weather—cold with west wind. Prospects of *rubbi* and poppy continue good. Harvesting of paddy about to be completed. Prices of food-grains stationary.
29	Shahabad ,, 27, '90	Nil	Weather—bright and cold. Prospects of crops good.
30	Durbhunga ,, 27, '90	Nil	Weather—cool: west winds prevailing. Harvesting of rice still going on. *Rubbi* crops look promising. Poppy and tobacco doing well. Prices remain stationary.
31	Mozufferpur ,, 27, '90	Nil	Weather—cool. Harvesting of paddy in progress. *Rubbi* crops look promising. Prospects of poppy crop continue good.
32	Sarun ,, 27, '90	Nil	Weather—colder than the preceding week. Harvesting of paddy completed. Prospects of *rubbi* and poppy crops continue favourable.
33	Chumparun ,, 27, '90	Nil	Weather—very cold: occasionally cloudy. Prospects of all standing crops, including poppy, are very good, though a shower of rain will be beneficial to them. Harvesting of paddy approaching completion.
Bhagulpore Divn. 34	Monghyr ,, 27, '90	Nil	Weather—seasonable: cool and clear. Harvesting of winter rice nearly completed. *Rubbi* crops promising.
35	Bhagulpore ,, 27, '90	Nil	Weather—seasonable. Harvesting of paddy crop going on. Standing crops promising.
36	Purneah ,, 27, '90	Nil	Weather—cold and clear. *Aghani* harvesting continues; outturn nearly 16 annas. *Rubbi* crops progressing favourably.
37	Maldah ,, 27, '90	Nil	Weather—seasonable. Harvesting of *amun* in progress. Other crops doing well. *Kalai* gathering going on. Price of common rice has fallen.
38	Santhal Pergha. ,, 27, '90	Nil	Weather—seasonable. Paddy harvesting still continues. Prospects of *rubbi* are excellent.

	No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
	ORISSA.			
Orissa Divn.	39	Cuttack Dec. 27, '90	Nil	Weather—seasonable. Harvesting of *guru sarad* rice nearly completed in the Jajpur subdivision. *Rubbi* crops doing well. Planting of tobacco continues. General prospects good.
Orissa Divn.	40	Pooree „ 25, '90	Nil	Weather—seasonable. *Sarad* crop is being harvested. *Dalua* crops are being sown. *Rubbi* crops (mustard and *kulthi*) are in ear. Price of common rice from 21 to 28 seers per rupee.
Orissa Divn.	41	Balasore „ 27, '90	Nil	Weather—warm for the time of year. The late winter rice crop is still being harvested.
	CHOTA NAGPORE.			
	South-West Frontier Agency.			
Chota Nagpore Divn.	42	Hazaribagh Dec. 27, '90	Nil	Weather—seasonable. Harvesting of winter rice finished. Rain wanted for *rubbi* crops. Poppy promising.
Chota Nagpore Divn.	43	Lohardugga „ 27, '90	Nil	Weather—cold. Harvesting of winter rice nearly finished. Rain wanted for *rubbi* crops.
Chota Nagpore Divn.	44	Singbhoom „ 27, '90	Nil	Weather—seasonable. Winter crops doing well. Paddy nearly all harvested.
Chota Nagpore Divn.	45	Manbhoom „ 27, '90	Nil	Weather—seasonable. Harvesting of paddy nearly over; outturn 14 annas. *Rubbi* crops are being gathered. Rice selling at from 20 to 28 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 30th December, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Beng

he week ending Friday, the 26th of December 1890.

Meteorological Division.	District.	Representative station.	STATION OBSERVATIONS. Air pressure. Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Wind. Prevailing direction.	Mean wind velocity.	Temperature. Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily range of temperature for week.	Variation from normal mean of week.	Mean, 8 A.M.
Orissa.	Pooree	Pooree ...	30·008	30·111	—	N.-Ely.	182	82·6	21, 23, 24 Dec.	60·6	25th Dec.	81·7	66·4	74·1	—	70
		Gopalpore	30·090	30·112	+·083	NNW	206	82·7	23rd ,,	61·9	26th ,,	81·6	67·0	74·3	+5·6	72
		False Point ...	30·091	30·114	+·006	N	144	84·9	23rd ,,	53·5	26th ,,	80 2	60·7	70 5	+5·1	69
	Cuttack	Cuttack ...	30·045	30·129	+·025	N.-Ely. & Calm	26	87·4	23rd ,,	58·8	25, 26 ,,	85·0	64·6	74·9	+6·1	66
	Balasore ...	Balasore ...	30·076	30·138	+·024	Variable	44	83·4	23rd ,,	53·5	25th ,,	80·3	58·4	69·4	+5·2	64
South West Bengal.	South-West Midnapore / South 24-Parganas	Saugor Island	30 094	30·121	+·018	NNE	199	78·2	20, 23 ,,	53·8	26th ,,	70 2	59·6	67·9	+2·4	63
	Midnapore	Midnapore ..	29·975	30·133	+·015	N	174	84·3	23rd ,,	51·2	26th ,,	80·9	56·8	68·6	+3·3	62
	24-Parganahs ... / Howrah ... / Hooghly ...	Calcutta	30·104	30·127	+·019	Calm	81	81·0	23rd ,,	51·8	26th ,,	76·8	55·6	66·2	+2·1	60
	Burdwan ...	Burdwan	30·031	30·138	+·020	N.-Wly. & Calm	40	81·0	23rd, 24th ,,	52·8	26th ,,	77·6	55·4	66·5	+1·8	59
	Bankoora ...	Bankoora	29·792	30·114	+·008	W	56	81·6	23rd ,,	51·4	25th ,,	78·5	55·4	66·9	+2·6	60
	Beerbhoom / West Burdwan ...	Ranegunge	29·787	30·139	+·018	NW	48	81·3	23rd ,,	51·0	25th ,,	77·7	55·3	66·5	+2·1	59
East Bengal.	Moorshedabad ...	Berhampore...	30·063	30·124	+ 011	North-Westerly	39	77·4	23rd ,,	52·2	24th ,,	75·2	54·6	64·9	+0·9	59
	Nuddea ...	Krishnaghur..	30·069	30·121	+·023	North-Westerly	70	80·3	23rd ,,	48·5	26th ,,	77·3	51·8	64·5	+0·2	60
	Jessore ... / Khoolna ...	Jessore ...	30·083	30·118	+·019	Calm	45	79·2	23rd ,,	46·9	24th ,,	76 3	53·8	65·0	+0·4	60
	Chittagong ...	Chittagong	30 004	30 069	+·020	North-Westerly	42	78·7	24th ,,	54·4	21st ,,	70·6	57·8	67·2	+0·8	59
	Chittagong Hill Tracts	Demagiri						Observations not received.								
	Backergunge ...	Barrisal	30·090	30·103	+·037	Calm	40	78·3	23rd Dec.	53·1	25th ,,	76·2	50·0	66·1	+2·0	61
	Noakholly ...	Noakholly ...	30·060	30·106	+·037	N	101	78·0	23 & 24 ,,	50·5	26th ,,	76·9	52·6	64·8	—0·3	62
	Furreedpore ...	Furreedpore...	30·076	30·118	+·031	Calm	37	74·3	22nd ,,	52·5	20 & 26 ,,	73·7	54 1	63·9	+0·5	59
	Dacca ...	Dacca ...	30·069	30·093	+·005	NW	68	78·6	23rd ,,	50·2	26th ,,	70·7	55·1	63·9	—0·2	59
	Commillah ...	Commillah ...	30·064	30·102	+·019	W	15	78·4	23rd ,,	49·6	24th ,,	77·2	52·0	64·6	+0·3	59
	Mymensingh ...	Mymensingh	30·040	30·101	+·016	Calm	37	75·8	25th ,,	50 3	24, 25 ,,	74·8	52·5	63·7	+0·6	57
North Bengal.	Bogra ...	Bogra	30·026	30·093	+·032	W & Calm	36	75·3	20, 23 ,,	?	?	74·5	?	?	?	58
	Pubna ...	Serajgunge	30·049	30·098	+ 014	W	18	76·5	23rd ,,	49·0	24th ,,	75·3	51·2	63·2	— 0·1	58
	Rajshahye ...	Rampore Beauleah.	30·036	30·110	+·022	North-Westerly	44	76·1	23rd ,,	50·7	24th ,,	72·3	53·0	62·6	+0·3	59
	Maldah ...	Maldah ...	30·052	30·139	—	NW	87	75·5	21st ,,	49·7	20th ,,	74·4	50·5	62·5	—	57
	Dinagepore ...	Dinagepore	29·976	30·106	—·007	SW	38	76·1	22, 23 ,,	49·7	20th ,,	75·2	51·0	63·1	+1·0	55
	Rungpore ...	Rungpore	29·987	30·121	+·003	North-Easterly	18	75·4	21st ,,	49·1	20th ,,	74·7	50·7	62·7	+1·2	56
	Julpigoree ... / Cooch Behar ...	Julpigoree ..	29·896	30·113	—·005	?	26	75·7	25th ,,	50·1	26th ,,	73·9	52·2	63·1	+1·1	57
	Darjeeling Hill Tracts ...	Darjeeling	22·998	—	—·035	S.-Ely. & Calm	83	48·9	th ,,	33·7	30th ,,	46·1	35·1	40·6	—0·8	39
North Behar.	Purneah ... / North Bhagulpore ...	Purneah	29 988	30·124	+·011	Calm	55	75·7	23rd ,,	43 5	24th ,,	73·4	48·2	60·8	0	54
	Mozufferpore ...	Mozufferpore	29·923	30·117	—	WSW	54	75·4	23rd ,,	47·0	24th ,,	72 9	50·1	61·6	—	55
	Durbhunga ...	Durbhunga	29·948	30 128	+·002	Westerly	77	75·9	23rd ,,	48·9	24th ,,	73·4	51·5	62·5	+0·4	56
	Chumparun ...	Motihari ..	29·890	30·133	+·028	WNW	134	75·8	22nd ,,	44·2	24th ,,	73·6	47·4	60·5	+1·3	55
	Sarun ...	Chupra ...	29·910	30·118	+·016	SW	83	75·8	23rd ,,	47·1	24th ,,	73·4	50·7	62·1	+0·9	54
South Behar.	Shahabad	Dehree	?	?	?	?	?	70·3	22nd ,,	46·8	25th ,,	73·7	53·4	64·6	+3·7	60
		Buxar	?	?	?	WNW	68	75·4	23rd ,,	47·4	24th ,,	73·3	53·5	63·9	+1·7	57
		Arrah	29·919	30·125	+·022	Westerly	23	70·8	23rd ,,	46·9	25th ,,	73·9	50·9	62·2	+1·6	56
	Gya	Gya ...	29·756	30·160	+·027	S	122	77·5	22nd ,,	47·9	25th ,,	74·5	53·7	64·1	+2·2	58
	Patna	Bankipore	29 941	30 138	—·004	W	72	74·7	20 & 23 ,,	48·4	24th ,,	73·0	51·4	62·2	+1·6	56
	South Bhagulpore ... / Monghyr ...	Bhagulpore ..	29·947	30·119	+ 001	Calm	17	76·8	23rd ,,	46·0	25th ,,	74·2	49·8	62·0	+1·2	57
	Sonthal Pergunnah ...	Deoruka	29·602	30·157	+·011	Calm	55	79·1	23rd ,,	47·3	24th ,,	75·6	51·0	63·3	+1·5	57
Chutia Nagpur.	Hazaribagh	Hazaribagh	28·051	30·160	+·015	W	195	75·1	22nd ,,	47·2	24th ,,	71·4	52·0	61·7	+2·3	57
	Lohardugga ... ... / Manbhoom	Ranchee ..	27·914	30 134	+·014	Westerly	122	76·1	22nd ,,	44·9	23rd ,,	74·4	50·8	62·6	+3·7	56
	Singbhoom	Chyebassa ...	29·237	30·142	+·040	W	20	84·3	23rd ,,	50·7	25th ,,	0·6	56·2	68 4	+3·0	61

Meteorological Division.	District.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	DISTRICT OBSERVATIONS. Rainfall. Of week. Mean for district.	Normal mean.	Since 1st of month. Mean for district.	Normal mean.	Variation.	Since 15th May 1890. Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.	District.	Meteorological Division.
Orissa.	Pooree	1·1	Nil	Nil	0·17	0·76	0·81	—0·05	66·53	55·51	+11·02	0·0	0·2	Pooree ...	Pooree	Orissa.
		0·1	Nil											Gopalpore ...		
		3·0	Nil											False Point		
	Cuttack	3·0	Nil	Nil	0·13	0·34	0·55	—0·21	63·98	51·52	+12·46	0·0	0·2	Cuttack ...	Cuttack	
	Balasore ...	0	Nil	Nil	0·08	0·31	0·28	+0·03	61·57	53 92	+8 65	0·0	0·1	Balasore	Balasore	
South West Bengal.	South-West Midnapore / South 24-Parganahs	5·1	Nil	Nil	0·05	0·05	0·34	—0·29	66·34	61·95	+4 39	0 0	0·1	Saugor Island ..	South-West Midnapore / South 24-Parganahs	South West Bengal.
	Midnapore	1·1	Nil	Nil	0·03	0·20	0·25	—0·05	50·20	51 07	—0·87	0·0	0·1	Midnapore	Midnapore	
	24-Parganahs ... / Howrah ... / Hooghly ...	1·4	Nil	Nil	0·07	0·26	0·30	—0·04	55·42	51·17	+4·25	0·0	0 1	Calcutta ...	24-Parganahs ... / Howrah ... / Hooghly ...	
	Burdwan ...	1·4	Nil	Nil	0·05	0·07	0·18	—0·11	61·48	46 31	+15·17	0·0	0·1	Burdwan	Burdwan	
	Bankoora ...	1·9	Nil	Nil	0·12	Nil	0·28	—0·28	53·02	53·21	—0·19	0·0	0·1	Bankoora	Bankoora	
	Beerbhoom / West Burdwan ...	0·7	Nil	Nil	0·03	0·13	0·14	—0·01	64·06	51·75	+12·31	0·0	0·1	Ranegunge ..	Beerbhoom ... / West Burdwan ...	
East Bengal.	Moorshedabad ...	1·7	Nil	Nil	0·01	Nil	0·14	—0·14	60·55	50·04	+10·51	0·0	0·1	Berhampore	Moorshedabad ...	East Bengal.
	Nuddea ...	2·1	Nil	Nil	0·05	0·03	0·14	—0·11	55·08	43·77	+6·29	0·0	0·1	Krishnaghur ...	Nuddea	
	Jessore ... / Khoolna ...	0·6	Nil	Nil	0·04	0·01	0·26	—0·25	53 54	52·26	+1·28	0·0	0·1	Jessore ...	Jessore ... ... / Khoolna	
	Chittagong ...	1·1	Nil	Nil	0·05	0·39	0·56	—0·17	119·45	113·14	+6·31	0·0	0·1	Chittagong ...	Chittagong	
	Chittagong Hill Tracts			Nil	0·08	0·02	0·54	—0·52	73·34	80·34	—7 00	0·0	0·1	Demagiri ...	Chittagong Hill Tracts	
	Backergunge ...	0	Nil	Nil	0·03	0·19	0·42	—0·23	63·35	70·20	—7·85	0·0	0·1	Barrisal ...	Backergunge	
	Noakholly ...	0	Nil	Nil	0 02	Nil	0 81	—0·81	97·84	106·52	—8 68	0·0	0·1	Noakholly	Noakholly	
	Furreedpore ...	0	Nil	Nil	0·02	Nil	0·12	—0·12	45·43	54·99	—9·57	0·0	0·1	Furreedpore ...	Furreedpore	
	Dacca ...	1·6	Nil	Nil	0·03	Nil	0·24	—0·24	58·19	60·08	—1·89	0·0	0·1	Dacca ...	Dacca	
	Commillah ...	1·3	Nil	Nil	0·03	0·08	0·38	—0·30	60·19	68 03	—7·87	0·0	0·1	Commillah ..	Tipperah	
	Mymensingh ...	1·3	Nil	Nil	0·01	Nil	0·14	—0·14	75·85	68·54	+7·31	0·0	0·1	Mymensingh ...	Mymensingh	
North Bengal.	Bogra ...	0	Nil	Nil	Nil	Nil	0·14	—0·14	78·90	57·05	+21·85	0·0	0·0	Bogra ...	Bogra	North Bengal.
	Pubna ...	0·4	Nil	Nil	0·02	Nil	0·11	—0·11	54·95	52·91	+2·04	0 0	0 1	Serajgunge .	Pubna	
	Rajshahye ...	0·6	Nil	Nil	0·01	Nil	0·13	—0·13	75·86	52·94	+22 92	0·0	0·1	Rampore Beauleah	Rajshahye	
	Maldah ...	0	Nil	Nil	Nil	Nil	0·08	—0·08	63·14	53·67	+9·47	0 0	0·0	Maldah ..	Maldah	
	Dinagepore ...	0	Nil	Nil	Nil	Nil	0·16	—0·16	81·74	56·41	+25·33	0 0	0·0	Dinagepore ...	Dinagepore	
	Rungpore ...	0	Nil	Nil	0·01	Nil	0·15	—0·15	106·61	73·33	+33·28	0·0	0·1	Rungpore ...	Rungpore	
	Julpigoree ... / Cooch Behar ...	0	Nil	Nil	Nil	Nil	0·14	—0·14	154·51	109·74	+44·77	0·0	0·0	Julpigoree ..	Julpigoree ... ... / Cooch Behar	
	Darjeeling Hill Tracts ...	3·7	Nil	Nil	0·07	0·14	0 26	—0·12	165·89	120·14	+45·06	0·0	0·1	Darjeeling ...	Darjeeling Hill Tracts	
North Behar.	Purneah ... / North Bhagulpore ...	0	Nil	Nil	Nil	Nil	0·09	—0·09	80·67	58·14	+22·53	0·0	0·0	Purneah ...	Purneah ... ... / North Bhagulpore ...	North Behar.
	Mozufferpore ...	0·9	Nil	Nil	Nil	Nil	0·08	—0·08	52·57	42·84	+9·73	0·0	0·0	Mozufferpore ..	Mozufferpore	
	Durbhunga ...	0	Nil	Nil	Nil	Nil	0·08	—0·08	57·63	44·04	+13·59	0·0	0·0	Durbhunga ...	Durbhunga	
	Chumparun ...	1·4	Nil	Nil	0·02	Nil	0·19	—0·19	68·47	46·08	+22·39	0·0	0·1	Motihari ..	Chumparun	
	Sarun ...	0	Nil	Nil	0·01	Nil	0·15	—0·15	53·80	42·01	+11·79	0·0	0·1	Chupra ...	Sarun	
South Behar.	Shahabad	2·1	Nil											Dehree ...		South Behar.
		2·3	Nil	Nil	0·04	0·02	0·31	—0·29	49·61	39·62	+9·99	0·0	0·1	Buxar	Shahabad	
		1·1	Nil											Arrah ..		
	Gya	2·4	Nil	Nil	0·05	0·02	0·23	—0·21	50·95	41·04	+15·91	0·0	0·1	Gya ..	Gya	
	Patna	1·1	Nil	Nil	0·01	Nil	0 13	—0·13	48·10	40·74	+7·36	0·0	0·1	Bankipore ..	Patna	
	South Bhagulpore ... / Monghyr ...	0·9	Nil	Nil	Nil	Nil	0·09	—0·09	52·25	42·62	+9·63	0·0	0·0	Bhagulpore ...	South Bhagulpore ... / Monghyr ...	
	Sonthal Pergunnah ...	0	Nil	Nil	0·02	0·06	0·10	—0·04	63·71	50·37	+13·34	0·0	0·1	Deoruka ...	Sonthal Pergunnahs...	
Chutia Nagpur.	Hazaribagh	4·0	Nil	Nil	0·07	0·01	0·26	—0·25	49·46	49·46	0	0·0	0·2	Hazaribagh ...	Hazaribagh	Chutia Nagpur.
	Lohardugga ... ... / Manbhoom	2·7	Nil	Nil	0·12	Nil	0·32	—0·32	47·01	47·73	—0·72	0·0	0·2	Ranchi ...	Lohardugga ... ... / Manbhoom	
				Nil	0·07	0·14	0·19	—0·05	41·67	46·42	—4·75	0·0	0·1			
	Singbhoom	0·6	Nil	Nil	0·14	0·59	0·58	+0·21	34·53	50·85	—16·32	0·0	0·2	Chyebassa ...	Singbhoom	

...ere. The variations are *negative* when the mean for the week is less than the corresponding normal mean, and *positive* when greater.
...cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means ...ents. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional ...

...—*Summary.*—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the la... ...ity of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbe... ...merical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the pa... ...the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of December 1890

Meteorological division.	District.	Station.	Rainfall. Saturday, 20th December.	Sunday, 21st December.	Monday, 22nd December.	Tuesday, 23rd December.	Wednesday, 24th December.	Thursday, 25th December.	Friday, 26th December.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1890.	Average rainfall from 1st May to date.
Orissa ...	Pooree ...	Pooree ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·47	0·74	70·44	50·1
		Khurdah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·30	0·52	66·55	50·1
		Banpur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·17	1·15	61·02	50·1
		False Point ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·82	66·10	64·1
		Gop ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·65	?	45·72	1
		Satpara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	75·90	1
		Pipli ...	.....	.....	.....	.....	.....	.....	.....						
	Cuttack ...	Jagatsingpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·38	63·67	46·1
		Banki ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·70	0·76	67·79	48·2
		Cuttack ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	82·14	56·1
		Kendrapara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·61	53·15	52·1
		Jajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·72	53·15	52·1
		Dharmsala ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·18	
		Salipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·15	
	Balasore ...	Chandbali ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·60	52·06	52·1
		Bhuddruck ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·38	0·27	58·23	51·1
		Sorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	60·84	50·1
		Balasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·46	0·40	64·59	57·1
		Jellasore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·00	0·11	66·83	51·1
		Baripodah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·15	62·96	53·1
South-West Bengal.	Midnapore ...	Contai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	0·41	67·81	60·1
		Saugor Island ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	0·36	60·13	66·1
		Tumlook ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·69	0·28	58·59	50·1
		Midnapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	47·47	48·1
		Ghattal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·28	44·61	53·1
		Kukrahaty ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·29	
		Garbetta ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	40·23	
	24-Pergunnahs	Diamond Harbour ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·26	62·13	57·7
		Canning Town ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·02	?	66·71	1
		Alipore Jail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·35	61·96	54·9
		Barrackpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·40	0·30	51·31	48·8
		Dum-Dum ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	50·34	51·1
		Baraset ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·57	0·31	55·41	49·7
		Buseerhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·19	0·24	58·85	54·1
	Howrah ...	Howrah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·16	0·31	51·59	50·4
		Mohasreka (*Ooloberiah*) ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·19	0·19	59·76	51·1
	Hooghly ...	Serampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·91	0·30	55·21	49·7
		Hooghly ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·14	0·29	52·19	47·1
		Jehanabad ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	51·57	54·1
	Burdwan ...	Culna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	54·31	48·1
		Burdwan ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	65·58	47·1
		Cutwa ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·21	0·19	64·57	57·1
		Ranegunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·18	0·12	60·72	48·1
		Mankur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·21	
	Bankoora ...	Bankoora ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·23	57·76	51·1
		Bishenpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	50·95	51·1
		Maliara ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	59·28	48·1
		Khatra ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·42	60·06	56·1
		Indas ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	59·97	
		Kotalpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·04	
		Anda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	55·11	
		Gangajalghati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·75	
		Raipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·29	
		Sonamukhi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·74	
	Beerbhoom ...	Bh. Soory ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·22	0·11	62·50	5
		Hetampore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	0·11	60·42	5
		Rampore Haut ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	72·56	5
		Bolpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·11	?	57·53	
		Murarai ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	56·46	
	Nuddea ...	Ranaghat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	0·21	55·23	4
		Kishnaghur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	0·08	61·73	4
		Chooadanga ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	47·08	5
		Meherpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	58·86	4
		Kooshtea ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	52·09	4
	Khoolna ...	Satkhira ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·36	57·61	4
		Bagirhat ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·27	62·51	4
		Khoolna ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·32	52·88	4
		Nakipur ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·66	?	76·68	
		Rampal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·78	
	Jessore ...	Narail ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	0·25	51·80	
		Jessore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·03	0·21	58·82	
		Jhenidah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	54·16	
		Magoorah ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	43·44	
		Bongong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·31	46·66	
	Moorshedabad ...	Kandi ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	64·89	
		Berhampore ...	.....	.....	.....	.....	.....	.....	.....	Nil.	Nil	Nil	0 17	59·27	
		Lalbagh ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	63 67	
		Asimgunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	58·27	
		Jungipore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	51·83	
		Lalgola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	65·35	
		Jiagunge ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	61·99	
		Akhriguni ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		
		Patkabari ...	.....	.....	.....	.....	.....	.....	.....						
East Bengal.	Chittagong ...	Cox's Bazar ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·45	0·40	129·87	
		Chittagong ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·33	0·69	109·03	
		Kutubdia ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·15	?	114·00	
		Satkanya ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	81·41	
	Chittagong Hill Tracts.	Rangmati ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·04	0·56	69·96	
		Ruma ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·53	77·71	
	Backergunge ...	Patuakhally ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·20	0·51	79·21	
		Perozepore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·50	62·91	
		Burrisal ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·34	65·76	
		Bhola ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·55	0·52	65·54	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of December 1890 —contd.

Meteorological Division.	District.	Station.	Rainfall: Saturday, 20th December.	Sunday, 21st December.	Monday, 22nd December.	Tuesday, 23rd December.	Wednesday, 24th December.	Thursday, 25th December.	Friday, 26th December.	Total: Number of rainy days.	Total: Rainfall of week.	Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
BENGAL proper.		*Gourmaddi*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	42·66	?
		Bauphal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	73·26	?
	Noakholly	Noakholly	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·60	92·34	107·16
		Fenny	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	1·00	103·40	105·75
		Harishpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·80	?	170·31	?
		Ramganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	65·28	?
	Furreedpore	Madaripore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	41·91	45·27
		Furreedpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	49·45	57·41
		Goalundo	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	44·90	52·51
	Dacca	Munshigunge	...	.....	.....	.....	.....	...	.....	Nil	Nil	Nil	0·34	57·78	69·60
		Dacca	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	54·58	58·19
		Narainguni	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	il	0·28	60·71	61·51
		Manickgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	59·71	49·52
		Joydebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	66·26	?
	Hill Tipperah	Agartola	.....		.....	.....	.....	.....	.....				0·38		61·02
	Tipperah	Comilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·45	67·24	75·39
		Chandpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·40	56·78	74·08
		Brahmunberia	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·25	54·94	61·20
		Ramchandrapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	76·11	?
		Nasirnagar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·81	?
		Daudkandi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	30·44	?
		Kasba	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	51·71	?
		Lakshem	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	68·55	?
	Mymensingh	Kishoregunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	68·87	69·82
		Atia (*Tangail*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	56·62	54·95
		Mymensingh	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	78·05	73·52
		Jamalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	79·16	64·69
		Netrokona	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	96·54	80·53
		Subornakhali	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	58·25	?
		Durgapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·07	?
		Sherpore Town	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	67·41	?
		Dewanganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	72·90	?
	Pubna	Pubna	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	46·08	53·47
		Serajgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	65·81	52·29
NORTH BENGAL.	Bogra	Sherepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·18	77·86	57·95
		Nowkhilla	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	66·79	53·88
		Bogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	79·02	60·51
		Panchbibi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	91·40	55·48
	Rajshahye	Beauleah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	72·29	58·50
		Nattore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	88·81	54·29
		Naogaon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	66·15	52·16
		Lalpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	52·38	?
		Wanda	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	48·04	?
	Maldah	Maldah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	64·65	51·18
		Chanchal	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·04	59·62	56·17
		Gajol	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	84·40	?
		Sibganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	62·06	?
	Dinagepore	Mohadebpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	67·94	56·12
		Dhuramon	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·16	80·28	52·23
		Raigunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	92·75	57·75
		Dinagepore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	86·80	63·61
		Balooghat	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·24	81·01	52·26
	Rungpore	*Thakoorgaon*	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	107·04	?
		Buxiwanigunge (*Gyabanda*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·14	123·00	62·23
		Rungpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	96·56	74·14
		Kurigram	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·17	90·59	73·85
		Bagdogra	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·21	111·28	84·08
		(*Nilphamari*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	97·52	?
		Ulipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	156·36	116·83
	Julpigoree	Julpigoree	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	187·47	?
		Alipore Duar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	140·30	?
		Fallacotta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	115·70	?
		Debigunj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	182·04	?
		Bhagalpore (*Nagrakatta*)	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·22	128·95	94·69
	Cooch Behar	Dinhatta	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·11	169·37	118·10
		Cooch Behar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·19	146·36	105·11
		Mickligunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·13	171·61	112·06
		Mathabhanga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	211·38	191·58
	Darjeeling Hill.	Buxa	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·47	0·10	178·30	102·41
		Silliguri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·08	0·26	150·24	107·84
		Darjeeling	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·30	123·00	77·50
		Kalimpong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	193·09	?
		Kurseong	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·31			
NORTH BEHAR	Purneah	Kissengunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·10	105·38	69·76
		Arrareah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	83·78	63·34
		Purneah	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·15	89·36	61·14
		Gondwara	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?		?
		Balarampore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	100·45	?
		Matiari	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	63·99	?
		Kaliaganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	118·55	?
	North Bhagulpor	Maddapore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·05	61·61	49·97
		Soopool	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·09	63·21	47·71
		Protabganj	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	49·30	?
	Durbhunga	Tajpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·07	51·70	42·49
		Durbhunga	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·12	58·56	49·27
		Madhubani	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·06	62·61	44·59
		Hahera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	54·58	?
		Roshera	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·94	?
	Mozufferpore	Sitamarhi	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	52·96	42·96
		Mozufferpore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	56·13	44·78
		Hajipore	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·08	48·60	41·96
		Pare	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	70·81	?
		Mahua	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	44·79	?
		Sirsiar	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	53·18	?
		Pupri	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	50·19	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 26th of December 1890—concld

Meteorological Division.	District.	Station.	Rainfall. Saturday, 20th December.	Sunday, 21st December.	Monday, 22nd December.	Tuesday, 23rd December.	Wednesday, 24th December.	Thursday, 25th December.	Friday, 26th December.	Total. Number of rainy days.	Total. Rainfall of week.	Total rainfall since last of month.	Average total rainfall from 1st of month.	Total rainfall since 16th May 1890.	Average rainfall from 16th May to date.
North Behar —concluded.	Champaran...	Motihari ..	... ..	.....	... ..	... ..	.....	.....	.....	Nil	Nil	Nil	0·13	72·06	44·14
		Bettiah ...	.....	.....	... ..	.....	... ..	... ..	...	Nil	Nil	Nil	0·23	64·89	43·04
		Bagaha ...	... ..	.....	... ..	.....	.....	.....	0·04	1	0·04	0·04	?		?
		Burhurwa ...	.....	... ..	..	.....	... ..	.....	.....	Nil	Nil	Nil	?	58·36	?
	Saran ...	Gopalgunge ...	.....	.....	... ..	.....	..	.....	.....	Nil	Nil	Nil	0·17	52·07	42·02
		Sewan ..	.....	.....	... ..	....	...	.....	.....	Nil	Nil	Nil	0·15	59·84	43·35
		Chuprah ...	.....	... ..	... ..	.....	... ..	.....	.....	Nil	Nil	Nil	0·14	49·27	40·12
South Behar	Shahabad	Buxar ..	.....	... ..	... ..	.....	.....	... ..	.....	Nil	Nil	Nil	0·19	52·47	41·77
		Dehree ..	.....	.....	... ..	.....	... ..	.....	... ..	Nil	Nil	0·04	0·57	43·18	39·87
		Bhaboosh ...	... ..	.....	... ..	.....	... ..	...	.....	Nil	Nil	Nil	0·37	41·11	40·65
		Sasseram ...	... ..	.....	...	.....	... ..	...	.....	Nil	Nil	0·08	0·27	44·27	40·19
		Arrah ...	... ..	.....	... ..	... ..	... ..	.....	... ..	Nil	Nil	Nil	0·20	56·96	39·68
		Mohaniah ..	.....	.....	... ..	.....	... ..	...	.....	Nil	Nil	Nil	?	36·07	?
	Gya ...	Aurungabad...	.....	.....	.....	.....	... ..	.....	.....	Nil	Nil	Nil	0·32	59·49	42·23
		Gya ...	... ..	... ..	... ..	... ..	.....	.....	.....	Nil	Nil	0·08	0·22	60·12	41·05
		Nowadah ...	.....	.....	.....	... ..	... ..	.....	.....	Nil	Nil	Nil	0·18	54·84	39·35
		Jehanabad ...	.....	.....	.....	... ..	... ..	.....	.....	Nil	Nil	Nil	0·16	53·35	40·39
		Arwal ..	.. ..	.....	... ..	.....	.....	... ..	.....	Nil	Nil	Nil	?	55·43	?
		Daudnagar ..	... ..	... .	... ..	...	.....	.....	.....	Nil	Nil	Nil	?	29·85	?
		Sherrghati ..	.....	...	.....	.. ..	. .	.....	... ..	Nil	Nil	Nil	?	36·81	?
		Rajauli ..	.....	...	.	... ..	. . ..	.....	... ..	Nil	Nil	Nil	?	45·60	?
		PakriBarawan	.....	. ...	.. ..	.. ..	... .	.. ..	.....	Nil	Nil	Nil	?	54·24	?
	Patna ...	Patna ..	.....	... .	... .	.... .	...	... ..	.....	Nil	Nil	Nil	0·13	50·02	41·36
		Dinapore ..	.....	. ..	... .	.....	... .	... ..	. ...	Nil	Nil	Nil	0·14	52·13	40·94
		Behar ...	.....	. . ..	.....	... ..	..	.....	. ..	Nil	Nil	Nil	0·11	46·95	41·29
		Barrh ...	.....	.....	. .	.....	.	.....	...	Nil	Nil	Nil	0·12	43·25	39·32
		Bickram ...	... ..	... ..	... ..	.....	... ..	... ..	... ..	Nil	Nil	Nil	?	58·35	?
		Hilsa ...	.....	... ..	... ..	.....	. . .	...	.....	Nil	Nil	Nil		50·24	?
	Monghyr ...	Begoosorai ...	.....	... ..	... ..	... ..	. . .	.....	.....	Nil	Nil	Nil	0·07	44·29	39·62
		Monghyr	.....	. . ..	. . .	.....	. .	.....	.....	Nil	Nil	Nil	0·07	54·84	45·99
		Jamui ...	.....	... ..	...	. ...	... ..	... .	.....	Nil	Nil	Nil	0·07	60·22	42·91
		Gogri ...	... ..	.....	... ..	.. ..	.	.. ..	. ...	Nil	Nil	Nil	?	70·44	?
		Sheikpura ...	.....	...	.. .	.. ..	. .	.....	... ..	Nil	Nil	Nil	?	47·76	?
	South Bhagulpore.	Bhagulpore ...	.....	.....	.. ..	.....	....	...	... ..	Nil	Nil	Nil	0·08	59·77	41·73
		Barka .	.....	.	.. .	.....	... ..	... ..	.. ..	Nil	Nil	Nil	0·08	42·11	43·25
		Kalgong ...	.....	.....	.. .	.....	. ...	..	....	Nil	Nil	Nil	?	62·06	?
		Bongaon ...	.....	. ..	. ...	.. ..	... ..	.....	.....	Nil	Nil	Nil	?		?
	Sonthal Pergunnahs.	Rajmehal ...	.....	.....	.. ..	.. ..	.. .	.....	... ..	Nil	Nil	Nil	0·00	56·86	51·86
		Godda ...	.....	..	... ..	.....	... ..	.....	... ..	Nil	Nil	Nil	0·10	50·75	43·78
		Pakour	.....	.....	.....	..	. .	... ..	... ..	Nil	Nil	Nil	0·08	74·16	55·00
		Nya Doomka	.....	... .	. .	..	... ..	... ..	.....	Nil	Nil	0·14	0·13	74·36	54·05
		Deoghur	.....	.. ..	...	..	... ..	... .	. ...	Nil	Nil	0·08	0·08	48·51	49·59
		Jamtara ...	... ..	.. ..	.....	... ..	. .	.....	.....	Nil	Nil	0·16	0·17	76·59	47·84
		Mohagama .	... ..	.. ..	.. ..	..	... .	.. .	.....	Nil	Nil	Nil	?	48·81	?
		Namtaat ..	.....	.....	... .	.. ..	... ..	... ..	.. ..	Nil	Nil	Nil	?	32·28	?
Chutta Nagpur.	Hazaribagh ...	Pachamba (*Giridi*).	... .	.....	...	.. ..	.....	...	.....	Nil	Nil	0·02	0·13	55·37	46·93
		Hazaribagh ..	... ..	.....	.....	. ...	.....	. . ..	... ..	Nil	Nil	0·05	0·27	50·02	49·39
		Semtagurah	... ..	... ..	... ..	... ..	...	...	.....	Nil	Nil	Nil	0·31	38·94	45·68
		Mahudi Hills	.....	.....	... .	.. ..	. . .	.. ..	..	Nil	Nil	Nil	0·30	43·02	48·44
		Jhoomra Hills	.....	.. .	... ..	.. ..	... ..	... ..	.....	Nil	Nil	Nil	0·31	56·80	59·01
		Harhi ...	.....	... .	... ..	.. ..	.	.....	... ..	Nil	Nil	0·13	?	50·37	?
		Chatra ..	.....	.....	.....	. ..	....	. .	.....	Nil	Nil	Nil	?	47·08	?
		Karagdeha ..	.....	...	... .	.. .	... ..	..	.. ..	Nil	Nil	0·07	?	57·41	?
		Kamghar ..	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	?	50·24	?
	Lohardugga...	Lohardugga...	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	0·52	53·19	49·89
		Ranchi ...	.....	... ..	.....	.....	.....	.....	.....	Nil	Nil	Nil	0·20	45·57	51·45
		Palamow .	... ..	.....	... ..	... ..	.....	.....	.....	Nil	Nil	Nil	0·18	44·37	43·47
		Silli ..	.....	.....	.....	.....	.....	... ..	.....	Nil	Nil	Nil	?	45·85	?
		Raiumat ..	.....	.....	... ..	.. ...	.....	.....	.....	Nil	Nil	Nil	?	43·82	?
		Hossainabad	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	0Nil	?	41·75	?
		Garwah ..	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	38·30	?
	Singbhoom .	Chyebassa ...	.....	... .	.....	.....	.....	.....	.....	Nil	Nil	0·59	0·38	34·58	51·09
		Chakradharpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	0·05	?	24·38	?
		Ghatsilla ...	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	0·42	?	51·88	?
		Rakaragura	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	1·12	?	52·05	?
	Manbhoom ...	Purulia ...	.....	.....	.....	.....	.....	.....	... ..	Nil	Nil	Nil	0·23	44·22	48·53
		Gobindpore ..	.....	.....	.....	... ..	.....	.....	.....	Nil	Nil	0·29	0·16	39·13	46·47
		Raghunathpore.	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	64·26	?
		Barrabhoom	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	0·07	?	44·22	?
		Jhalda ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	34·71	?
		Chas ...	... ..	.....	.....	.....	.....	.....	.....	Nil	Nil	Nil	?	30·18	?

Explanation.—..... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, *the* 30*th December* 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 26TH OF DECEMBER 1890.

It is desirable to notice that this is the last weekly meteorological report which will deal with the weeks ending on Fridays, and that in future, commencing with the week ending on January 3rd, the meteorological week will be considered to end on Saturdays at 8 A.M. The system with the week ending on Fridays has been in force for nearly eight years, since the first week of April 1883, but at the suggestion of the Government of India it is now to be changed, as above stated, to bring the Bengal weekly report into uniformity with the weekly rainfall reports to be published in all other provinces of India.

The week under review has been one in which the changes have been somewhat considerable, though fine weather has prevailed throughout. On the first day of the week pressure was in slight excess of the normal, while temperature was exceedingly high in the western districts, where at some stations the mean temperatures were 5° to 7° above the normal, though on the other hand in the east of the province temperature was in defect by one to two degrees. A steady northerly wind current of fairly normal direction was reported at all stations, weather was fine, and there was no rain. On the 21st there had been a rather considerable fall of pressure which continued on the 22nd, but the fall was succeeded by a sharp rise on the 23rd and 24th, the increase on the latter date at many stations equalling about one-eighth of an inch. Pressure again fell by about a twentieth to a tenth of an inch on the 25th, and by an almost similar amount on the 26th, and on this day pressure was in rather considerable defect of the normal over the north of the province, though it was more normal elsewhere. It will thus be seen the pressure changes during the week have been much larger than is usual during the north-east monsoon season. Temperature has also changed considerably. From the 20th to the 21st there had usually been a fall of rather less than a degree; this was succeeded on the 22nd by an increase of from two to three degrees, and on the 23rd by a fall varying at some stations up to more than five degrees, and on the 24th by a further fall which averaged about 3°, but which at many stations exceeded 5°. On the 26th a rise of temperature set in over the northern districts, though the fall continued at the southern stations, and on the 26th the rise continued at the majority of stations, the increase equalling 5° at such stations as Hazaribagh and Gya. It will be seen that in temperature also the changes during the week have been unusually large and variable, and at the close of the week again temperature was in excess of the normal by amounts generally ranging up to about 2°. Wind directions during the week have, however, been fairly steady and tolerably normal in character, and the sky has been usually cloudless, and at no station has there been any rainfall at all

Pressure.—The mean pressure for the week has varied from the normal by small amounts only, and at most stations it has been above the normal by one or two-hundredths of an inch.

Temperature.—The mean temperature for the week has been about five and-a-half degrees in excess of the normal in Orissa, three degrees in excess in Chutia Nagpur, two degrees in South-West Bengal and South Behar, and nearly one degree above it elsewhere. For the whole province the average excess has been rather more than two degrees. The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with the normal values for the same period. The variations of the minimum or night temperatures at these stations have been larger than those of the maximum or day temperatures, and the mean excess of the minimum temperatures has been about two and-a-half degrees as against an excess of less than one degree in the day temperature:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 26th of December 1890.

	Normal mean maximum temperature for the week ending 26th December.	Actual mean maximum temperature for the week ending 26th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 26th December.	Actual mean minimum temperature for the week ending 26th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 26th December.	Actual mean daily temperature for the week ending 26th December 1890.	Variation of actual mean from the normal.
Cuttack	81·0	85·0	+4·0	56·7	64·6	+7·9	68·9	74·9	+6·0
Calcutta	74·6	76·8	+2·2	53·6	55·6	+2·0	64·1	66·2	+2·1
Dacca	77·0	76·7	—0·3	55·2	55·1	—0·1	66·1	65·9	—0·2
Burdwan	76·2	77·6	+1·4	53·2	55·4	+2·2	64·7	66·5	+1·8
Patna	73·2	73·0	+0·8	48·8	51·4	+2·6	60·5	62·2	+1·7
Gya	74·2	74·5	+0·3	49·5	53·7	+4·2	61·9	64·1	+2·2
Purneah	74·2	73·4	—0·8	47·4	48·2	+0·8	60·8	60·8	0
Hazaribagh	70·3	71·4	+1·1	48·4	52·0	+3·6	59·4	61·7	+2·3
Darjeeling	47·2	46·1	—1·1	35·6	35·1	—0·5	41·4	40·6	—0·8

Rainfall—Has been entirely absent from the province throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 26th of December 1890 :—

Meteorological Divisions.	Temperature.						Rainfall.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 30th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	87·4	53·5	81·8	63·4	72·6	+5·5	Nil	0·12	—0·12	0·0	0·2	—0·2	0·44	0·51	63·71	53·14
South-West Bengal ...	84·3	48·5	77·4	55·3	66·3	+1·8	Nil	0·05	—0·05	0·0	0·1	—0·1	0·09	0·23	56·92	51·51
East Bengal	78·7	49·6	76·1	54·3	65·2	+0·5	Nil	0·03	—0·03	0·0	0·1	—0·1	0·07	0·35	71·49	74·01
North Bengal	76·5	49·0	74·3	51·4	62·9	+0·7	Nil	Nil	Nil	0·0	0·0	0	Nil	0·13	98·09	68·97
North Behar	75·9	43·5	73·3	49·6	61·5	+0·7	Nil	Nil	Nil	0·0	0·0	0	Nil	0·10	64·38	46·06
South Behar	79·3	45·9	74·3	51·7	63·0	+1·9	Nil	0·02	—0·02	0·0	0·1	—0·1	0·02	0·15	54·68	43·34
Chutia Nagpur	78·1*	44·9*	72·9*	51·4*	62·2*	+3·0*	Nil	0·09	—0·09	0·0	0·2	—0·2	0·09	0·27	46·09	48·56

* Chyebassa not included.

Meteorological Office, Bengal ;
The 30th December 1890.

A. Pedler,
Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 21st to 27th December 1890.

Month.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Temperature.				Hygrometry.					Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
December ...	21st ...	30·088	67·9	78·9	22·0	56·9	69·3	60·9	·424	54·4	59	Nil
,, ...	22nd ...	·062	71·3	81·7	20·8	60·9	74·6	66·4	·540	61·1	62	...
,, ...	23rd ...	·148	67·0	76·1	18·2	57·9	71·1	59·7	·362	50·0	47	...
,, ...	24th ...	·224	64·9	74·1	18·4	55·7	67·6	58·7	·377	51·1	56	...
,, ...	25th ...	·177	64·9	75·7	21·6	54·1	67·4	59·7	·412	53·6	61	...
,, ...	26th ...	·091	66·1	78·4	24·7	53·7	67·9	60·9	·443	55·6	65	...
,, ...	27th ...	·090	69·0	77·9	17·8	60·1	71·6	62·7	·452	56·1	58	...

	Inches.
The mean 10 A.M. pressure of the seven days	30·126
	°
The mean temperature of the seven days	67·3
The extreme variation of temperature	28·0
The maximum temperature	81·7
	%
The mean 10 A.M. relative humidity of the seven days	58
The total fall of rain from 21st to 27th December 1890	Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

A. Pedler,
For Meteorological Reporter to the Govt. of India.

Meteorological Office, India ;
The 29th December 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 21st to 27th December 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	Temperature. Mean.	Maximum.	Range.	Minimum.	Hygrometry. Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Wind. Prevailing direction.	Miles recorded.	Rain.	Weather.
		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Dec.	21st	130·8	8·5	30·012	66·7	77·7	21·6	56·1	61·6	0·482	57·9	76	WNW and calm ..	13	Nil	Chiefly clear, ⌂, ≡.
,,	22nd	136·5	9·0	29·983	69·2	80·8	21·7	59·1	64·8	·561	62·2	80	WNW and calm ...	28	,,	Chiefly clear, ⌂, ≡.
,,	23rd	129·9	9·3	30·065	66·4	75·5	18·3	57·2	59·6	·421	54·2	67	NNW and calm ...	52	,,	Clear, ⌂.
,,	24th	128·5	9·0	·133	63·8	73·7	19·3	54·4	56·7	·368	50·5	64	N, NNW and calm	51	,,	Chiefly clear, ⌂.
,,	25th	129·6	9·0	·083	63·5	75·2	20·6	54·6	57·0	·382	51·5	67	NNW and calm ...	35	,,	Chiefly clear, ⌂.
,,	26th	129·0	9·0	·003	63·9	77·4	25·6	51·8	58·4	·420	54·1	73	WNW and calm ...	26	,,	Chiefly clear ⌂, ≡.
,,	27th	130·0	9·2	·017	66·7	77·9	18·2	59·7	58·6	·387	51·8	60	NNW, WNW and calm.	92	,,	Clear, ⌂.

	Inches.
The mean pressure of the seven days	30·042
The average pressure of the corresponding period for 24 years, S.-G.'s Office ...	30·039
	Hours.
The total number of hours of bright sunshine	63·0
The maximum possible number of hours of sunshine	74·9
	°
The mean temperature of the seven days	65·7
The average temperature of the corresponding period for 24 years, S.-G.'s Office	67·3
The extreme variation of temperature	29·0
The maximum temperature	80·8
	Miles.
The highest velocity of the wind in one hour	12
	lbs.
The highest pressure of wind on one square foot	?
	%
The mean relative humidity	70
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	71
	Inches.
The total fall of rain from 21st to 27th December 1890	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	0·01
The total fall from 1st January to 27th December 1890	61·28
The average fall of the corresponding period for 24 years, S.-G.'s Office ...	65·24

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The [illegible]h of the rain-gauge is one foot above the ground.

⌂, [illegible] fog.

A. PEDLER,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 29th December 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 13th December 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 13th December 1890 in twenty-seven principal towns of Bengal correspond to an annual rate of 28·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1·7 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885–89.	1890.
Ratio of births per 1,000 of the population per annum	26·4	26·6	26·3	26·4	26·9	26·5	28·2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.	Towns.	Weeks ending— 22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.
Burdwan	39·7	33·6	44·2	13·7	Naraingunj	37·3	91·1	74·5	78·7
Midnapore	23·2	26·3	29·4	32·5	Chittagong	9·4	4·7	18·8	21·1
Hughli and Chinsurah	24·3	24·6	29·5	39·4	Comillah	27·0	42·4	50·1	34·7
Serampore	43·2	34·4	25·5	47·2	Patna City	13·3	13·3	15·3	14·6
Utterpara	51·6	56·6	37·7	47·2	Gya	34·2	21·9	27·3	30·9
Howrah	36·1	31·5	30·9	36·6	Arrah	25·5	10·8	29·9	13·2
Bali	31·6	1·0	25·1	45·6	Mozufferpore	10·9	24·3	31·0	20·7
Krishnagar	11·4	9·5	13·2	15·1	Durbhanga	40·1	46·4	44·1	25·2
Ranaghat	12·0	6·0	6·0	17·9	Chupra	22·1	21·1	35·2	29·2
Santipore	24·5	22·8	17·5	22·8	Bhagulpore	24·4	40·7	31·7	39·8
Jessore	6·1	6·1	...	...	Monghyr	38·9	37·1	41·6	37·1
Rampore Beauleah	52·5	49·9	44·7	28·9	Purneah	10·4	17·3	17·3	20·8
Darjiling	29·6	44·5	29·6	29·6	Poori	14·7	12·6	33·6	18·9
Dacca	31·1	31·1	42·8	33·0	Total ...	27·6	26·5	30·5	28·2

It will be seen that last week the highest birth-rate was returned from Naraingunj (78·7) and the lowest from Arrah (13·2). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 31·5 per 1,000 of the population. The rate of the week is ·2 higher than the average rate of the corresponding week of the past five years, and is below the rate of the corresponding week of any of the past five years except 1887 and 1888, *vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885–89.	1890.
Ratio of deaths per 1,000 of the population per annum	34·7	33·8	26·5	24·8	31·6	31·3	31·5

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending— 22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.	Towns.	Weeks ending— 22nd Nov. 1890.	29th Nov. 1890.	6th Dec. 1890.	13th Dec. 1890.
Burdwan	33·6	41·2	27·5	44·2	Naraingunj	53·0	120·1	120·2	[illegible]
Midnapore	29·4	20·1	29·4	52·7	Chittagong	9·4	18·8	23·5	[illegible]
Hughli and Chinsurah	57·7	27·9	30·5	36·1	Comillah	23·1	39·5	[illegible]	[illegible]
Serampore	36·4	55·0	68·7	74·6	Patna City	14·8	14·8	[illegible]	[illegible]
Utterpara	29·3	75·5	66·1	47·2	Gya	48·6	50·1	[illegible]	[illegible]
Howrah	26·8	26·9	44·7	42·4	Arrah	15·2	7·2	[illegible]	[illegible]
Bali	17·5	17·5	21·1	70·2	Mozufferpore	17·0	14·0	[illegible]	[illegible]
Krishnagar	5·7	5·7	18·9	24·6	Durbhanga	34·9	37·5	[illegible]	[illegible]
Ranaghat	36·6	35·9	12·1	53·9	Chupra	13·1	8·5	[illegible]	[illegible]
Santipore	17·5	9·8	19·3	7·0	Bhagulpore	19·5	15·4	[illegible]	[illegible]
Jessore	18·4	36·7	18·4	30·6	Monghyr	26·8	24·4	[illegible]	[illegible]
Rampore Beauleah	47·9	47·9	31·3	47·9	Purneah	6·9	20·8	[illegible]	[illegible]
Darjiling	...	29·2	51·0	7·3	Poori	49·7	46·6	[illegible]	[illegible]
Dacca	45·5	25·9	31·1	39·8	Total ...	23·3	28·7	[illegible]	31·5

will be seen that last week the highest mortality occurred in the town of Narainganj (28·3) and the lowest in Santipore (7·).

Measured by last week's mortality, the highest annual death-rates from the several registered death-causes occurred in the following towns :—

Cholera.	Ratio per *mille.*	*Small-pox.*	Ratio per *mille.*	*Fever.*	Ratio per *mille.*	*Bowel-complaints.*	Ratio per *mille.*	*Other causes.*	Ratio per *mille.*
Narainganj	70·4	Midnapore	10·8	Rampore Beauleah	39·4	Serampore	21·6	Narainganj ...	49·1
Uttarpara	28·3			Gya ...	34·8	Howrah ...	10·3	Bali ...	21·0
Sanaghat	17·9			Bali ...	31·6			Serampore ...	19·9
Howrah ...	17·2			Burdwan ...	27·5			Midnapore ...	17·9
Bali ...	14·0			Jessore ...	24·5			Dacca ...	15·0
Dacca ...	9·7			Serampore ...	23·5			Monghyr ...	11·8
Serampore	7·9			Comillah ...	23·1			Hughli and Chinsurah	11·5
Krishnagar	7·5			Poori ...	23·1				
Hughli and Chinsurah	6·6								

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 4·7 from cholera, against 3·9 per 1,000 in the preceding week; 6 from small-pox, against ·5; 13·4 from fever, against 13·7; 3·9 from bowel-complaints, against 3·3; 3 from injury, against ·4; and 8·3 from other causes, against 9·7 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows :—

According to Sex.	Ratio per *mille.*	*According to Class.*	Ratio per *mille.*	*According to Age.*	Ratio per *mille.*
Males	33·7	Christians ...	22·4	Under 1 year ...	215·1
Females	29·1	Hindus ...	32·5	1 and under 5 years ...	31·1
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population...	115	Mahomedans ...	29·3	5 ,, 10 ,, ...	18·8
				10 ,, 15 ,, ...	13·5
				15 ,, 20 ,, ...	23·8
				20 ,, 30 ,, ...	20·9
				30 ,, 40 ,, ...	19·9
				40 ,, 50 ,, ...	23·3
				50 ,, 60 ,, ...	32·9
				60 years and upwards ...	93·3

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
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The 29th December 1890.